

**REPORT OF  
STORMWATER POND  
AND ROADWAY SOILS STUDY**

**CONDUCTED OF**

**EPPERSON RANCH**  
Pasco County, Florida

**PREPARED FOR:**

**LENNAR HOMES, INC.**  
600 N. Westshore Blvd., Suite 400  
Tampa, FL 33609

**FES PROJECT NO. 06-493-2**

**NOVEMBER, 2006**

**BOOK 1**

**PREPARED BY:**



12904 Dupont Circle  
Tampa, Florida 33626

November 21, 2006

Ms. Heather Middleton  
Lennar Homes, Inc.  
600 N. Westshore Blvd, Suite 400  
Tampa, FL 33609

**RE: Report of Stormwater Pond and Roadway Soils Study  
Epperson Ranch  
Pasco County, Florida  
FES Project No.: 06-493-2**

Dear Ms. Middleton:

Faulkner Engineering Service, Inc. (FES) has completed the stormwater pond and roadway soils study for the referenced project. We provided our services in general accordance with our proposal No. P06-563 (Rev.2), dated July 19, 2006 that was authorized by Lennar Homes, Inc. The purpose of our exploration was to explore the subsurface soil and groundwater conditions within the planned stormwater pond areas and along the roadway alignments to provide information for pond design, as well as an opinion on the suitability of encountered soil for use as structural and to provide recommendations for flexible pavement design. This report summarizes our field exploration and presents our findings, conclusions and geotechnical engineering recommendations. A previous stormwater pond soils study was performed at the site by FES and presented in our "Report of Stormwater Pond Soils Study" FES Project No. 06-493, dated August 2, 2006.

### PROJECT INFORMATION

#### Existing Site

Epperson Ranch is an approximately 1700+/- acre site located west of Curley Road and north and south of Elam Road in Pasco County, Florida. The site is currently undeveloped and used as pasture land for cattle. An abandoned nursery was observed in the southern portion of the site.

The site topography is generally level to gently sloping with approximate elevation changes on the order of 20+/- feet. Several wetlands were observed throughout the property during our site visit as well as a large body of water (King Lake) in the north portion of the site. Irrigation ditches were observed at the abandoned nursery.

#### Proposed Construction

Based on the boring plan provided by Heidt & Associates it is our understanding that the project will consist of the construction of a residential development with associated access roadways and stormwater ponds. Our geotechnical study is for the stormwater ponds and pavement areas and does not include studies within the building pad areas.

#### Soil Survey Review

According to the "Soil Survey of Pasco County, Florida", as prepared by the U.S. Department of Agriculture Natural Resource Conservation Service (formerly the Soil Conservation Service) the subject property is primarily underlain by:

- *Pomona fine sand* – The NRCS describes this soil unit as nearly level and poorly drained, located on low ridges. The NRCS indicates that this soil unit has a surface layer of black fine sand about 6 inches thick that is underlain by gray, gray-brown, dark brown and pale brown fine sand to about 4 feet. Below the upper sands are gray fine sandy loam and loamy fine sand to about 6½ feet or more. The NRCS indicates the seasonal high groundwater level is within 10 inches of ground surface for 1 to 3 months.

- *Kendrick fine sand, 0 to 5 percent slopes* – The NRCS describes this soil unit as well drained, nearly level to gently sloping, located in the uplands. The NRCS indicates that this soil unit has a surface layer of dark grayish brown fine sand about 7 inches thick underlain by yellowish brown, light yellowish brown and brownish yellow fine sand to a depth of about 28 inches. Below the upper sands is yellowish brown sandy clay loam to about 14 inches thick underlying by mottled brownish yellow sandy clay loam to a depth of about 73 inches. Below is mixed very pale brown, reddish yellow and pink sandy clay loam to a depth of 80 inches. The NRCS indicates the seasonal high groundwater level is below 72 inches.
- *Lochloosa fine sand, 0 to 5 % slopes* – The NRCS describes this soil as nearly level to gently sloping, somewhat poorly drained on the uplands. The NRCS indicates this unit typically has a surface layer of very dark gray fine sand about 7 inches thick underlain by brown and very pale brown fine sand to a depth of about 35 inches. Below is yellowish brown fine sandy loam about 6 inches thick, underlain by yellowish brown and light gray sandy clay loam to a depth of 80 inches. The NRCS indicates the seasonal high water table is at a depth of 30 to 60 inches for 1 to 4 months and rises to a depth of about 15 inches for 1 to 3 weeks during rainy seasons. Water table recedes to a depth of more than 60 inches in the dry season.
- *Newnan fine sand, 0 to 5 percent slopes* – The NRCS describes this soil unit as poorly drained, located in the low ridges in the flatwoods. The NRCS indicates that this soil unit has a surface layer of dark gray fine sand about 5 inches thick that is underlain by light brownish gray to a depth of about 22 inches. Below is dark brown, dark yellowish brown, yellowish brown and pale brown to a depth of 44 inches. Below the upper sands is yellowish brown sandy clay loam to about 14 inches thick underlying by mottled brownish yellow and grayish brown sandy clay loam to a depth of 80 inches or more. The NRCS indicates the seasonal high groundwater level is at a depth of about 24 to 40 inches for about 2 to 4 months and recedes to more than 60 inches during dry periods.
- *Palmetto, Zephyr, Seller complex* –The NRCS describes Palmetto unit as nearly level and very poorly drained. The NRCS indicates that typically this unit has a surface layer of black and very dark gray fine sand about 4 inches thick that grades to gray fine sand about 6 inches thick underlain by very dark grayish brown that grades to dark brown, brown fine sand to a depth of about 28 inches. Below is pale brown fine sand to a depth of 46 inches underlying by light brownish gray sandy clay to a depth of 57 inches. Below is light gray sandy loam that grades to gray to a depth of 80 inches or more. The NRCS indicates that under natural conditions the seasonal high groundwater level is within 10 inches of the surface for 2 to 6 months and recedes at a depth of 10 to 30 inches for more than 6 months. Also, flooding occurs frequently during the rainy season. The NRCS describes Zephyr unit as nearly level and very poorly drained. The NRCS indicates that typically this unit has a surface layer of black muck about 5 inches thick and black fine sand about 7 inches thick that grades to light gray fine sand about 4 inches thick underlain by grayish brown that grades to a depth of 22 inches. Below is grayish brown fine sandy loam that grades to dark grayish brown sandy clay to a depth of 37 inches. Below is grayish brown sandy clay loam about 22 inches thick underlying by light gray loamy fine sand to a depth of 80 inches or more. The NRCS indicates this soil unit is ponded for more than 6 months. The NRCS describes Sellers unit as nearly level and very poorly drained. The NRCS indicates that typically this unit has a surface layer of dark reddish brown mucky loamy fine sand about 5 inches thick and black fine sand about 28 inches thick that grades to dark brown and yellowish brown fine sand to a depth of 80 inches or more. The NRCS indicates this soil unit is ponded for 3 to 6 months and recedes to a depth of about 30 inches or more during dry seasons.

- *Millhopper fine sand, 0 to 5 percent slopes* – The NRCS describes this soil as nearly level to gently sloping and moderately well drained soils located in the uplands. The NRCS indicates this unit typically has a surface layer of dark gray fine sand about 3 inches thick underlain by grayish brown fine sand to a depth of about 7 inches. Below is very pale brown, light yellowish brown, yellowish brown fine sand to a depth of about 59 inches. Underlain the fine sands is gray sandy clay loam to a depth of 80 inches or more. The NRCS indicates the seasonal high water table is at a depth of 40 to 60 inches for 1 to 4 months and recedes to a depth of 60 to 72 inches for 2 to 4 months in most years. In very wet years, the water table can be found at a depth of 30 to 40 inches for a period of 1 to 3 weeks.

Minor inclusions of these soil types are included within the limits of the property under study:

- *Sparr fine sand, 0 to 5 percent slopes* – The NRCS describes this soil unit as nearly level to gently sloping, and poorly drained, located on low ridges. The NRCS indicates that this soil unit has a surface layer of dark gray fine sand about 6 inches thick that is underlain by grayish brown, pale brown and light yellowish brown fine sand to about 43 inches. Below the upper sands is light yellowish brown sandy clay loam to about 80 inches. The NRCS indicates the seasonal high groundwater level is between 20 to 40 inches for 1 to 4 months.
- *Sellers mucky loamy fine sand* – The NRCS describes this unit as nearly level and very poorly drained and located in depressions. The NRCS indicates this soil unit has a surface layer of black muck about 2 inches thick underlain by black mucky loamy fine sand to about 1 foot. Below to about 6½ feet or more is dark brown, dark yellow brown and pale brown fine sand. The NRCS indicates in most years this soil is ponded during wet seasons for 3 to 6 months and the water table is within 10 inches for 6 to 12 months.
- *Adamsville fine sand* - The NRCS describes this soil as nearly level and somewhat poorly drained. The NRCS indicates this unit typically has a surface layer of dark gray fine sand about 3 inches thick underlain by grayish brown, pale brown, light gray and white fine sand to a depth about 6½ feet or more. The NRCS indicates in most years the seasonal high water table is at a depth of 20 to 40 inches for 2 to 6 months.
- *Urban sand* – The NRCS describes this unit as a soil that has been modified through cutting, grading, shaping, and filling for urban development. The soils has been so altered that identification is not feasible.
- *Kanapaha fine sand* - The NRCS describes this soil as nearly level to gently sloping, somewhat poorly drained located in the flatwoods. The NRCS indicates this unit typically has a surface layer of very dark gray fine sand about 6 inches thick that grades to light brownish gray fine sand about 7 inches thick underlying by light gray fine about 32 inches thick and white fine sand to a depth of 66 inches. Below is light brownish gray fine sandy loam to a depth of 80 inches. The NRCS indicates the seasonal high water table is at a depth less than 10 inches for 1 to 3 months, between 10 to 40 inches for 3 to 4 months and recedes to a depth of more than 40 inches during dry seasons.

## **SUBSURFACE EXPLORATION**

### **Field Exploration**

We have performed one hundred seventy-two (172) standard penetration test (SPT) borings drilled to a depth of 25 feet each below ground surface (bgs) from August 28 through October 19, 2006 throughout proposed pond areas at locations staked by Heidt & Associates (113 were drilled previously). In addition, four hundred fifty (450) auger borings were drilled to a depth of approximately 8 feet (bgs) along the proposed interior roadways (also staked by Heidt & Associates). The procedures used by FES for field sampling and testing were in general accordance with ASTM procedures, industry standards of care and established geotechnical engineering practice.

The standard penetration test (SPT) borings were advanced by means of truck accessible drilling equipment employing wet rotary drilling techniques. The drillers collected soil samples using a split barrel sampler driven by a rope and cathead hammer system in general accordance with standard penetration test procedures (ASTM D1586). The standard penetration test was performed continuously in the upper ten feet of the borings and at five-foot intervals thereafter.

The auger borings were advanced by mechanically rotating an approximate 4-inch diameter continuous flight auger into the subsurface soils. The cuttings brought to the surface were logged in the field and representative samples were obtained at each change in the soil stratum.

The samples recovered from both the standard penetration test and roadway auger borings were placed in sealed containers and transported to the FES laboratory for further evaluation. Detailed descriptions of the soils encountered during the field exploration are presented on the boring records included in Appendix A.

Our staff was onsite during the fieldwork to supervise and monitor the drilling and also perform a site reconnaissance, noting pertinent site and topographic features as well as surface indicators of soil conditions. The boring locations were staked by Heidt & Associates, Inc. and are shown on the attached Boring Location Plan (Plan 1 & 2). Several of the borings had to be offset from the staked locations for access reasons. The offset information is presented on the boring records included in Appendix A.

### **Soil Sample Handling and Classification**

The soil samples obtained during our drilling operations were placed in sealed containers to retain moisture and returned to our laboratory. The samples were visually classified by a staff geotechnical engineer according to the "Unified Soil Classification System" (ASTM D2487) and reviewed by a Senior Professional Engineer. To aid in classification and evaluation of geotechnical engineering properties, laboratory analyses were performed on select soil samples collected during the SPT sampling. The laboratory testing performed was in general accordance with appropriate sections of (ASTM D 1140) material finer than the No. 200 sieve. The results of our laboratory testing are presented on the soil boring logs in Appendix A.

## **FINDINGS**

### **Subsurface Conditions**

#### **General Soil Profile**

The conditions presented below highlight the major subsurface stratifications encountered during our field exploration of the site. More detailed descriptions of the materials encountered are provided on the attached soil profiles. It should be understood that subsurface conditions will vary across this site and between boring locations. Changes in subsurface strata may be more gradual than indicated.

The major subsurface stratifications encountered in the stormwater pond borings during the field exploration of the site consisted of varying colored fine sand (SP) and fine sand with trace silt and clay (SP-SM/SP-SC) from the present ground surface to depths ranging from approximately 2 feet to 25 feet (bgs). Below these soils, clayey sand (SC) was encountered extending to depths ranging from 4 feet to the termination of borings at approximately 25 feet (bgs). Underlying the upper sands were varying thicknesses of sandy clay (CL) and clay (CH) extending to the termination of the borings at 25 feet (bgs) and interbedded within the clayey fine sand layers at different depths and thicknesses. The exception was in borings PB-64 and PB-65 which encountered an approximately 2 foot organic silt (OL) strata from approximately 4 feet to 6 feet and 2 feet to 4 feet (bgs) respectively.

The roadway auger borings generally encountered varying colored fine sands (SP), fine sand with trace silt and clay (SP-SM/SP-SC), clayey sand (SC) and sandy clay (CL) from the present ground surface to the termination of the borings at 8 feet (bgs).

### **Groundwater**

Groundwater was encountered in our SPT borings at depths ranging from 1.25 feet to not encountered within 10 feet below the current ground surface before drilling fluid was used and in our auger borings at depths ranging from 1 foot to not encountered within the depths explored below current ground surface. Groundwater levels will fluctuate with time due to seasonal rainfall and locally heavy precipitation events; therefore, future groundwater levels may be encountered at depths different from those indicated by our borings. Please refer to the attached Groundwater Data Table (Table 1) for the groundwater conditions at the time of drilling and our estimates for seasonal high groundwater table.

The seasonal high water table is typically encountered during late summer following the rainy season. Several factors can affect the seasonal high groundwater level such as drainage characteristics of the soils; land surface elevation; and relief points such as lakes, rivers and swamps. Based on our past experience, the soil indicators exposed in our borings and review of the soil survey for Pasco County, we estimate the seasonal high groundwater level within the areas explored may be encountered perched above the clay soils at depths ranging from 0.5 feet to 6 feet below the current ground surface.

### **CONCLUSIONS**

Our geotechnical engineering evaluation of this site and our recommendations with respect to the proposed development are based on our site observations and the field exploratory data obtained from our borings.

We anticipate the soils excavated from the proposed stormwater ponds will be used for fill material onsite. The materials encountered in our pond borings generally consisted of colored fine sand (SP) and fine sand with trace of silt and clay fines (SP-SM/SP-SC) from the present ground surface to depths ranging from 2 feet to approximately 25 feet (bgs) and interbedded within the clayey fine sands and clays at various depths and thicknesses. These soils if excavated will provide a good source for structural fill during site development. Clayey sand (SC) was encountered extending to depths ranging from 4 feet to the termination of the borings at approximately 25 feet (bgs). Clayey sand (SC) can also be utilized as structural fill material provided these soils conform to criteria presented in the appropriate sections that follow in this report. The sandy clay (CL) material once dry can be uniformly mixed with the granular soil onsite to produce additional fill material. However, the work required to process and mix this material to a consistency suitable for structural fill may not be economically feasible if sand fill is readily available or time is a concern. The CH and OL soils are unsuitable for use as structural fill.

The borings performed along the proposed roadway alignment generally encountered fine sands (SP), fine sands with trace silt and clay (SP-SM/SP-SC), clayey sand (SC) and sandy clay (CL) from the present ground surface to the boring terminations at approximately 8 feet (bgs). It appears that the shallow subsurface soil will provide a suitable subgrade for roadway pavement after proper site preparation and in-place densification described in the appropriate sections that follow in this report.

The groundwater table at the time of drilling was encountered in the roadway borings at depths ranging from 1 foot to not encountered within the depths explored below current ground surface. We estimate seasonal high groundwater levels within the proposed roadways may be encountered at depths ranging from 0.5 feet to 5.0 feet below current ground surface. If roadway subgrades remain near or slightly above current site grades underdrain installation may be necessary in some areas.

It should be noted that subsurface conditions can vary across this site and between boring locations. Conditions can also vary in areas not explored by our borings. Contractors bidding earthwork requirements are urged to conduct their own borings, test pits or other investigations to determine those conditions that may affect their specific work requirements. FES can not be responsible for interpretations made by others based on the information contained in this report and the attachments.

## **RECOMMENDATIONS**

### **Site Preparation**

#### **Site Stripping**

Before earthwork and construction activities begin, all existing topsoil, vegetation, deleterious fill and debris, and large roots down to finger-size should be removed within the construction limits. Site stripping should extend at least ten feet beyond the construction area. Any pockets of organics, organic laden soils and/or deleterious material should be undercut to competent soil. The resulting excavations should be backfilled with structural fill placed in maximum one-foot thick lifts. Backfill soils should be of the same composition and be compacted to the same criteria as structural fill soils. This process should be observed by a representative of FES to check that all organic and/or deleterious material has been removed.

#### **Proof-Rolling / In-Place Densification**

Following site stripping and prior to any fill placement or beginning construction, proof-rolling / in-place densification of the ground surface with a heavy vibratory roller should be performed within the construction area. A vibratory roller having a rated centrifugal force of at least 50,000 pounds is recommended. Compaction within the construction area should continue until the soils appear relatively firm and unyielding and the soils have achieved a relative compaction of at least 95 percent of modified proctor maximum dry density (ASTM D-1557) to a depth of at least 2 feet below present ground surface. The subgrade soil one foot below new pavement should be compacted to at least 98 percent.

Proof-rolling and densification efforts should be closely monitored by a FES engineering technician to observe any unusual or excessive deflection of the soils beneath the compacting equipment used. If unusual or excessive deflection is observed, then the areas should be undercut to firm soil and backfilled with compacted structural fill placed in maximum one-foot thick lifts.

### **Borrow Areas**

#### **Structural Fill Suitability**

##### **Definition**

The preferred soil used for structural fill and backfill can be defined as clean fine sand containing less than twelve percent material by weight that is finer than a number 200 sieve (material conforming to SP to SP-SM or SP-SC in the Unified Soils Classification System). The borings performed at this property suggest sands conforming to the above criteria are present from ground surface to approximately 2 feet to 25 feet (bgs).

Encountered material containing up to 35 percent fines (materials conforming to SC or SM in the Unified Soil Classification System) may also be utilized as structural fill, provided their plasticity index is less than 25, and the working subgrade is at least 2 feet above the seasonal high groundwater level. The sandy clay (CL) material once dry can be uniformly mixed with the granular soil onsite to produce additional fill material. However, the work required to process and mix this material to a consistency suitable for structural fill may not be economically feasible if sand fill is readily available or time is a concern.

Any muck, peat or organic laden soil if encountered on site will not be suitable for fill and should be disposed of offsite or placed in landscape areas and used for planting purposes. Because of the variability of the subsurface soils encountered, additional laboratory testing should be performed on the excavated material during grading and earthwork activities to evaluate its suitability for use as fill material.

### Placement

Structural fill with less than 12 percent fines should be placed in lifts not to exceed one foot thick. Materials with fines content greater than 12 percent should be placed in maximum 6-inch loose lifts. The fill material should be compacted to at least 95 percent of its modified Proctor maximum dry density (ASTM D-1557). The upper 1-foot below pavements should be compacted to 98 percent of modified Proctor maximum dry density. Confined areas, such as utility trenches, should be compacted with manually operated vibratory compaction equipment.

Depending on the time of year construction occurs, materials excavated and imported containing clay fines may exist in a saturated condition. These soils will require processing and drying to achieve a moisture content to allow placement and proper compaction. Spreading the clayey material in thin lifts (6 inches loose thickness) and aerating by disking can facilitate and hasten the drying process. Disking will also be useful to breakdown larger clods of clayey soils. Specialty equipment typically associated with clayey soils such as a sheep's foot roller will also be required to achieve proper compaction.

The placement and compaction of moisture sensitive soils of this type will require time and effort beyond that typically associated with sand soil. A grading contractor experienced with placing and compaction of clay soils can likely reduce costly project delays due to soil conditions.

### Groundwater Control

Groundwater will likely be encountered during excavation and fill placement activities and may also be encountered during stripping and undercutting in some areas. Dewatering may be accomplished by either draining the water to sumps which can then be pumped away from the area or by the use of sanded, vacuum well points. Groundwater fluctuations can occur due to variations in rainfall and other site specific factors. These variations should be considered when planning earthwork activities.

An alternative to dewatering in shallow undercut areas where groundwater is encountered is to use clean sand classified as SP material (less than 5% fines) according to the Unified Soil Classification System as a first lift through any standing water. This first lift will create a platform to place and compact additional fill material upon.

### Flexible Pavement Recommendations

Roadway traffic distribution or frequency for the planned subdivision has not been provided at this time. The following minimum pavement section is based on traffic patterns that we believe are consistent with similar developments and site conditions, assuming a 20-year pavement and 18-kip equivalent axel loads (ESAL) of 100,000 or less for light duty pavements (typical residential streets). We have also assumed a coefficient of terminal serviceability equal to 2.0 and that periodic maintenance will be required. A base material other than limerock should be used if an underdrain is required to control groundwater.

Section Description	Light Duty (inches)	Heavy Duty (inches)
<b>Surface Course</b> Type S-1 or S-3 Asphaltic Concrete with minimum Marshall stability of 1500 lbs. Compacted to at least 95 percent of the maximum laboratory Marshall density.	1.75	2
<b>Base Course</b> Limerock having a minimum LBR of 100 and compacted to at least 98 percent of its modified Proctor maximum dry density (ASTM D-1557). <b>If the low edge of pavement is within 3 feet of the seasonal high groundwater level, then a moisture tolerant base will be required such as soil cement or crushed concrete.</b>	6	8
<b>Subbase</b> A minimum LBR of 40 and compacted to at least 98 percent of the modified Proctor maximum dry density (ASTM D-1557).	12	12

The light duty pavement sections indicated above assumes virtually no heavy truck traffic. If the pavements are to be subjected to heavy truck traffic beyond that for typical residential streets, then a heavy duty section should be used. This light duty pavement section was developed using design guidelines published by the Florida Department of Transportation, Division of Road Operations. Methods and materials used for pavement construction should also conform to applicable sections of the most recent edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction. We further recommend that LBR testing be performed on the subgrade soils to establish an LBR value to determine the level of stabilization required, if any.

### LIMITATIONS

This report has been prepared for the exclusive use of **Lennar Homes, Inc.** and their designers for the specific application to the project previously discussed. Our conclusions and recommendations have been rendered using generally accepted standards of geotechnical engineering geology practice in the state of Florida. No other warranty is expressed or implied.

Our conclusions and recommendations are based on the design information furnished to us, the data obtained from the previously described subsurface exploration, and our experience. They do not reflect variations in the subsurface conditions that are likely to exist in the region of our borings and in unexplored areas of the site. These variations are due to the inherent variability of the subsurface conditions in this geologic region. Should variations become apparent during construction, it will be necessary to re-evaluate our conclusions and recommendations based upon our on-site observations of the conditions.

This area of Florida is underlain by limestone bedrock that is susceptible to dissolution and the subsequent development of karst features such as voids and sinkholes in the natural soil overburden. Construction in a sinkhole prone area is therefore accompanied by some risk that internal soil erosion and ground subsidence could affect new structures in the future. It is not possible to investigate or design to completely eliminate the possibility of future sinkhole related problems. In any event, the Owner must understand and accept this risk.

The scope of our services does not include any environmental assessments or investigations for the possible presence of hazardous or toxic materials in the soil, groundwater or surface water within or in the general vicinity of the site studied. Any statements made in this report or shown on the test boring logs regarding unusual subsurface conditions and/or composition, odor, staining, origin or other characteristics of the surface and/or subsurface materials are strictly for the information of our client and may or may not be indicative of an environmental problem.

If changes are made in the overall design or the location of the proposed stormwater ponds and roadway alignments, the recommendations presented in this report must not be considered valid unless the changes are reviewed by our firm and recommendations modified or verified in writing. We should be given the opportunity to review the applicable portions of the project specifications when the design is finalized. This review will allow us to check whether these documents are consistent with the intent of our recommendations.

**CLOSING**

Faulkner Engineering Services Inc. appreciates the opportunity to be of service to **Lennar Homes, Inc.** by providing these geotechnical consulting services and we look forward to assisting you through project completion. If you have any questions concerning this report, please do not hesitate to contact the undersigned.

Sincerely,

**Faulkner Engineering Services, Inc.**

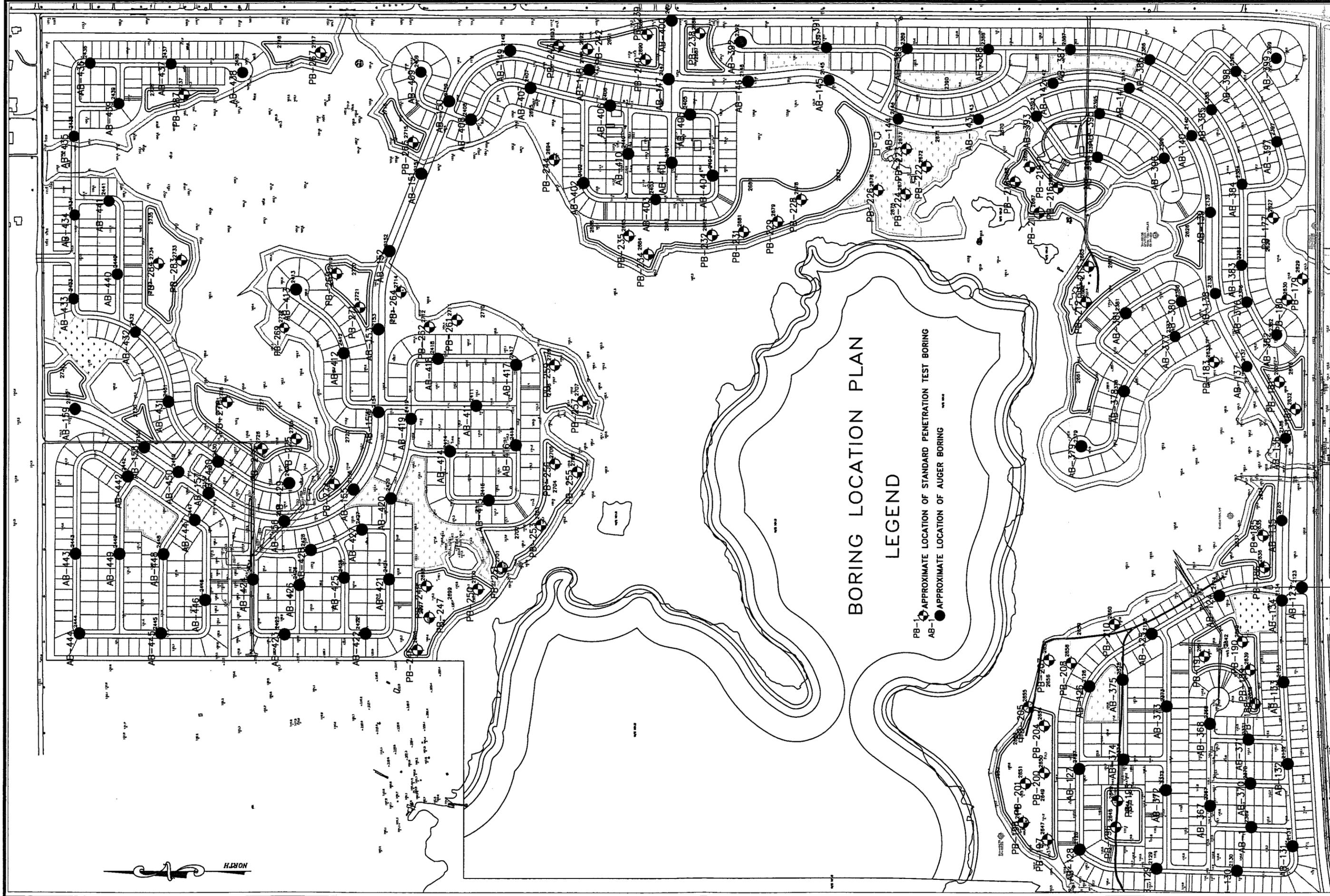


José E. Barcelo  
Staff Geotechnical Engineer



David W. Faulkner, P.E.  
President  
Fla. Registration No. 50740

- Copy to: Heidt & Associates, Inc. (Pat Gassaway, P.E.)
- Attachments: Boring Location Plan (Plan 1 & 2)  
Generalized Soil Profiles  
Groundwater Data (Table 1)  
ASF E Information
- Appendix A: Logs of Soil Borings
- Appendix B: Key to Soil Classifications



## BORING LOCATION PLAN LEGEND

- PB-1 ○ APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING
- AB-1 ● APPROXIMATE LOCATION OF AUGER BORING

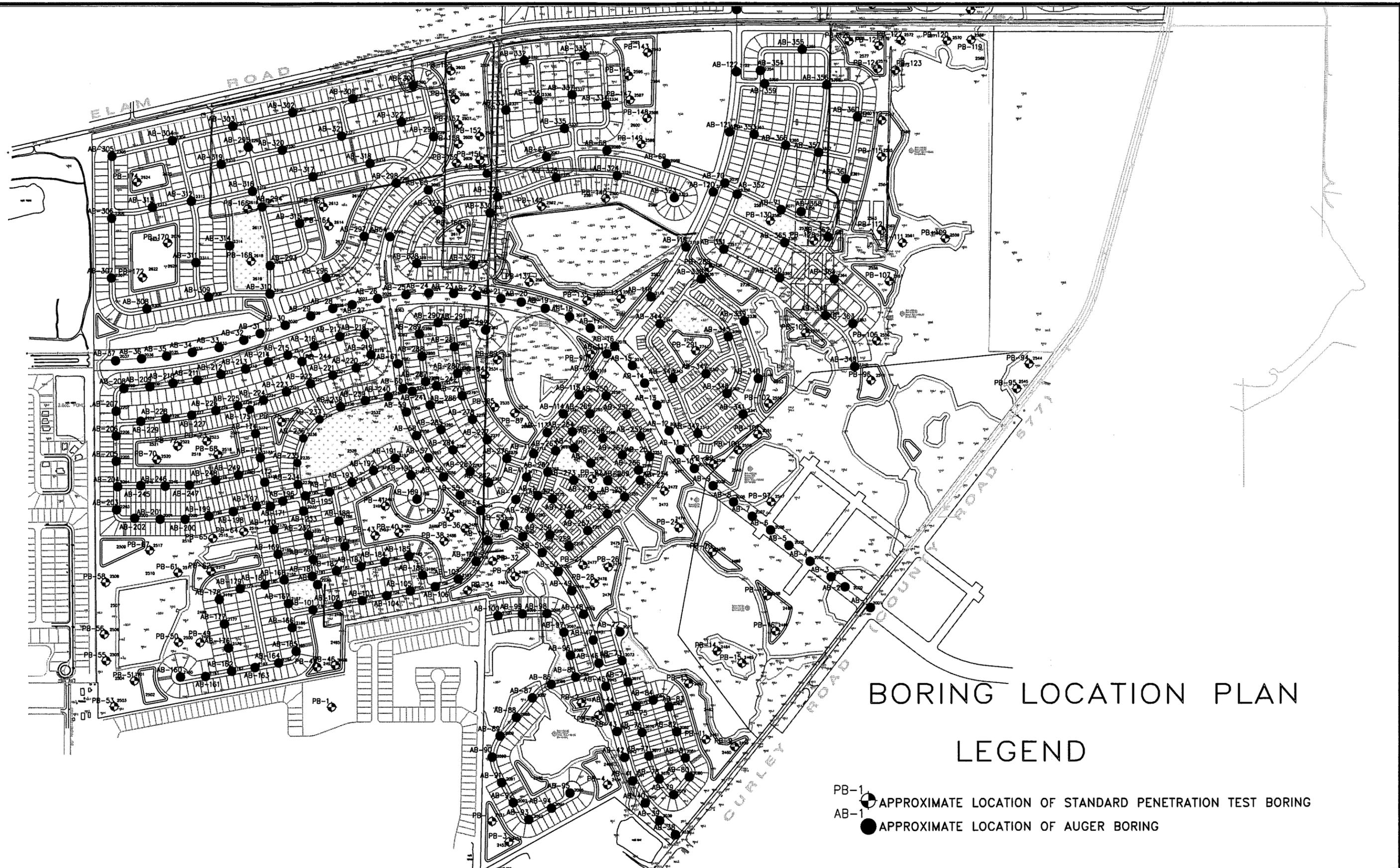
**FAULKNER**  
ENGINEERING SERVICES, INC.

Geotechnical Engineers  
Construction Material Testing

12904 DuPont Circle  
Tampa, Florida 33626  
PHONE: 813.818.8307  
FAX: 813.818.8381  
www.faulknereng.com

# Epperson Ranch (North Parcel)

SCALE:	N.T.S.	DATE	11.15.06	JOB NO.	06-493-2
DRAWN:	JBR				
CHKD:	DF				
				PLAN 1	



# BORING LOCATION PLAN

## LEGEND

- PB-1  APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING
- AB-1  APPROXIMATE LOCATION OF AUGER BORING

**FAULKNER**  
ENGINEERING SERVICES, INC.

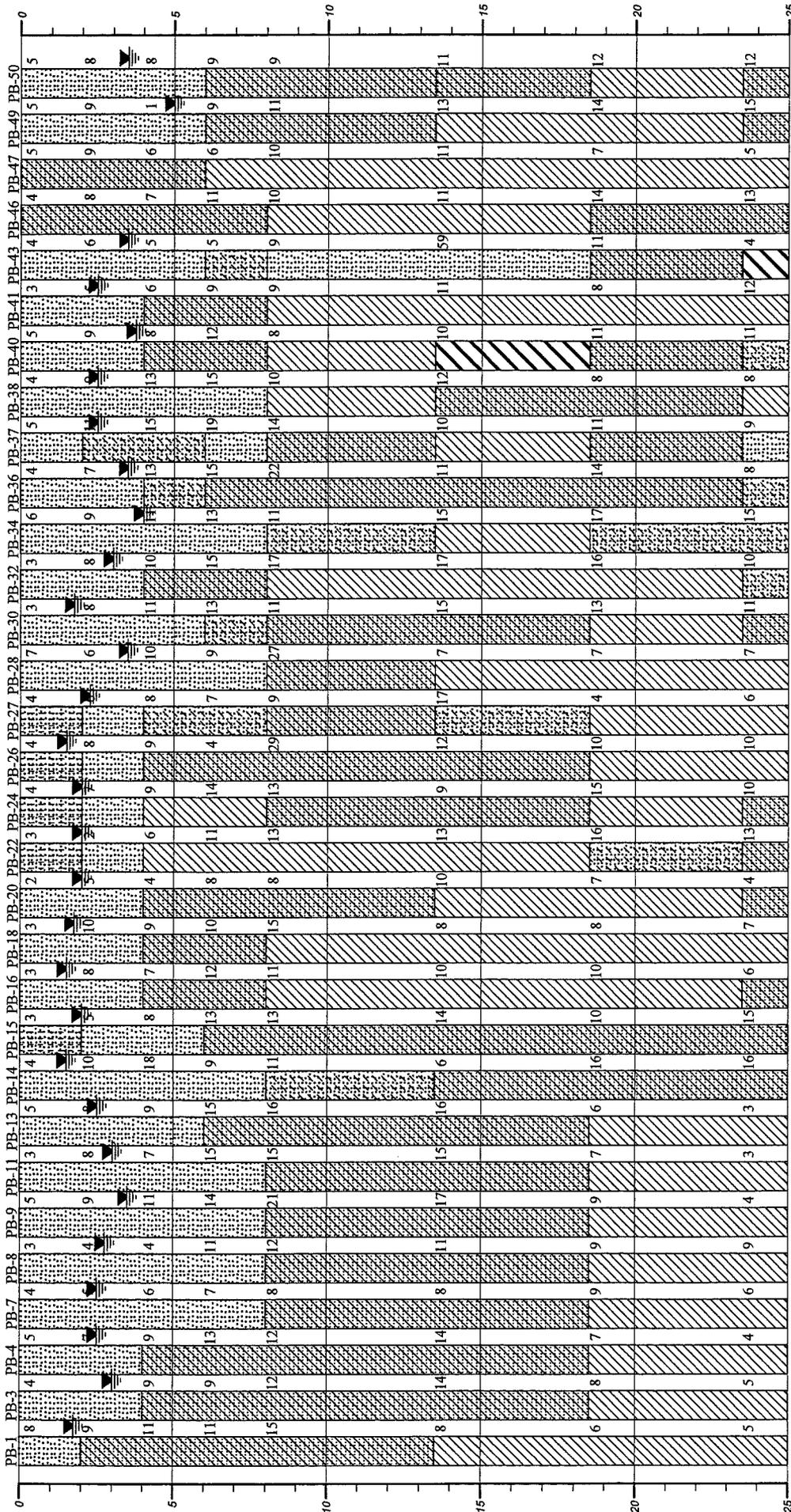
Geotechnical Engineers  
Construction Material Testing

12904 DuPont Circle  
Tampa, Florida 33626  
PHONE: 813.818.8307  
FAX: 813.818.8381  
www.faulknereng.com

**Epperson Ranch  
(South Parcel)**

SCALE N.T.S.	DATE 11.15.06	JOB NO. 06-493-2
DRAWN: JBR	PLAN 2	
CHKD: DF		

Depth in Feet



Depth in Feet

Plan View

Strata symbols

-  Poorly graded sand
-  Clayey sand
-  Low plasticity clay
-  Poorly graded sand with clay

-  Poorly graded sand with silt
-  High plasticity clay

# GENERALIZED SOIL PROFILE

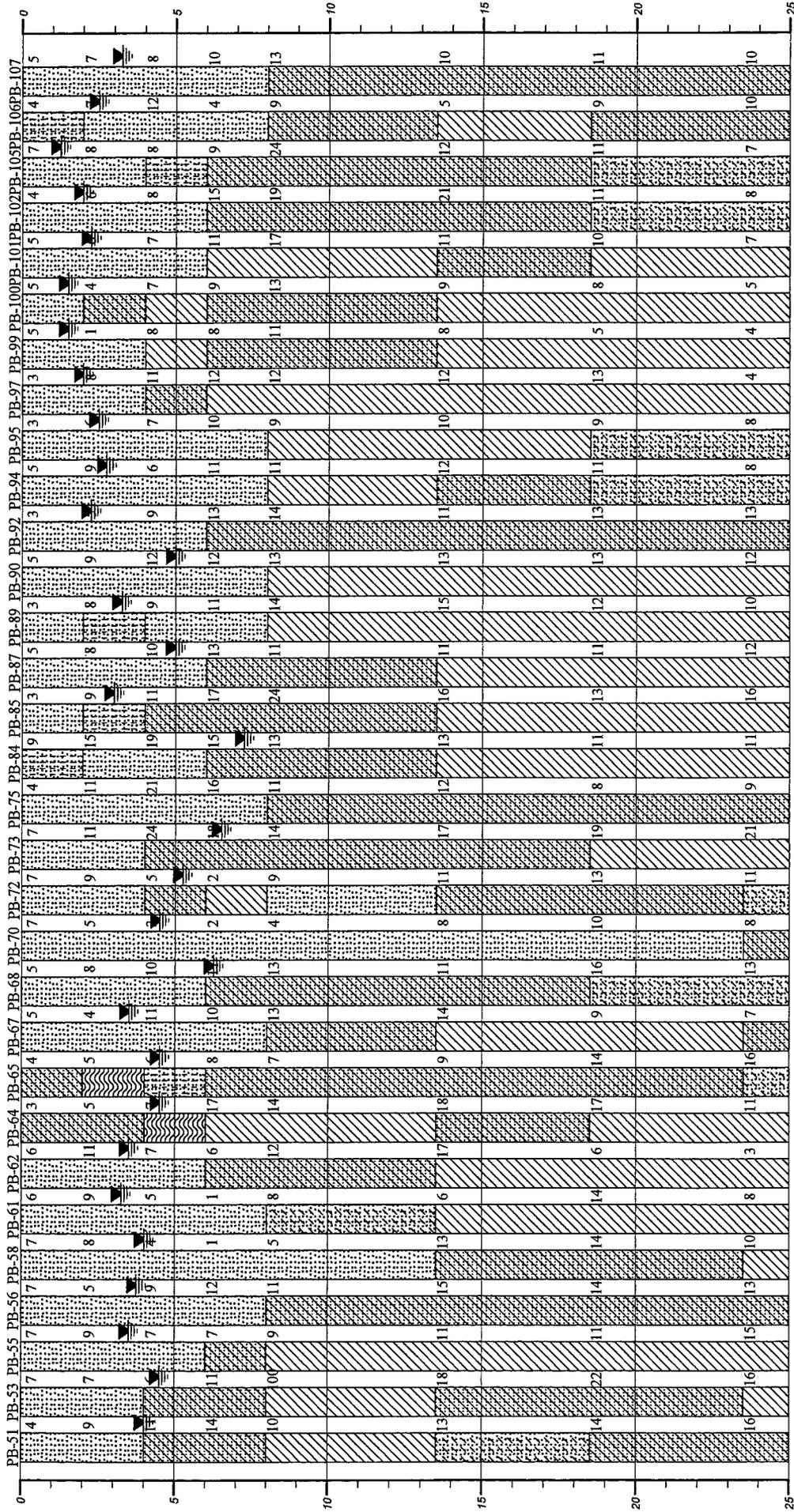
HORIZONTAL SCALE: \_\_\_\_\_  
 DRAWN BY/APPROVED BY: \_\_\_\_\_  
 DATE DRAWN: 11/15/2006  
 VERTICAL SCALE: 1"=5'

Epperson Ranch

PROJECT NO. 06-493

FIGURE NUMBER

Depth in Feet



Depth in Feet

Plan View

Strata symbols

- Poorly graded sand
- Clayey sand
- Low plasticity clay
- Poorly graded sand with clay

- Poorly graded sand with silt
- High plasticity clay
- Low plasticity organic silts

### GENERALIZED SOIL PROFILE

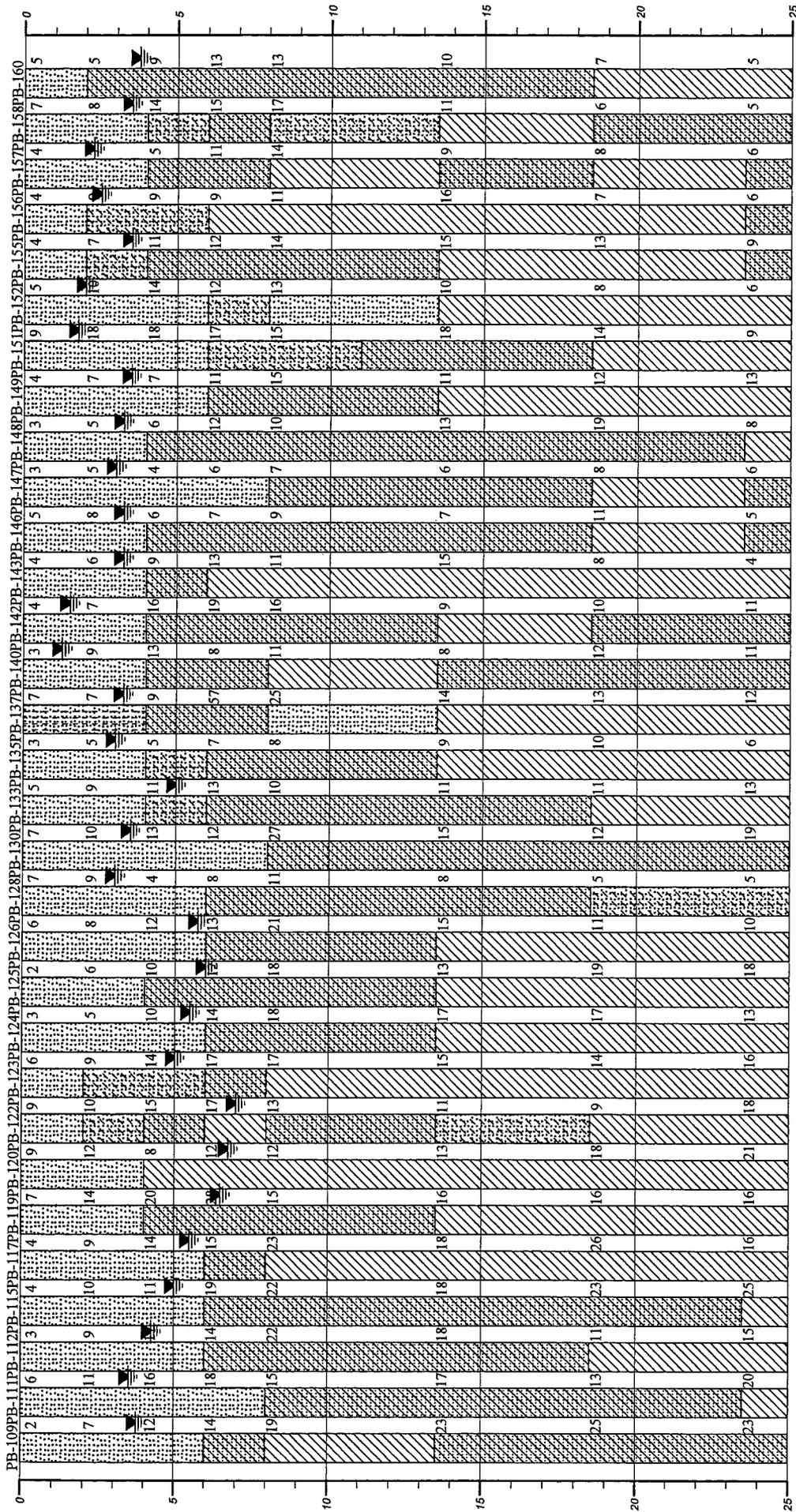
HORIZONTAL SCALE:	DRAWN BY/APPROVED BY	DATE DRAWN
VERTICAL SCALE: 1"=5'		11/15/2006

Epperson Ranch

PROJECT NO. 06-493

FIGURE NUMBER

Depth in Feet



Depth in Feet

Plan View

Strata symbols

-  Poorly graded sand
-  Clayey sand
-  Low plasticity clay
-  Poorly graded sand with clay

Strata symbols

-  Poorly graded sand with silt
-  High plasticity clay
-  Low plasticity organic silts

# GENERALIZED SOIL PROFILE

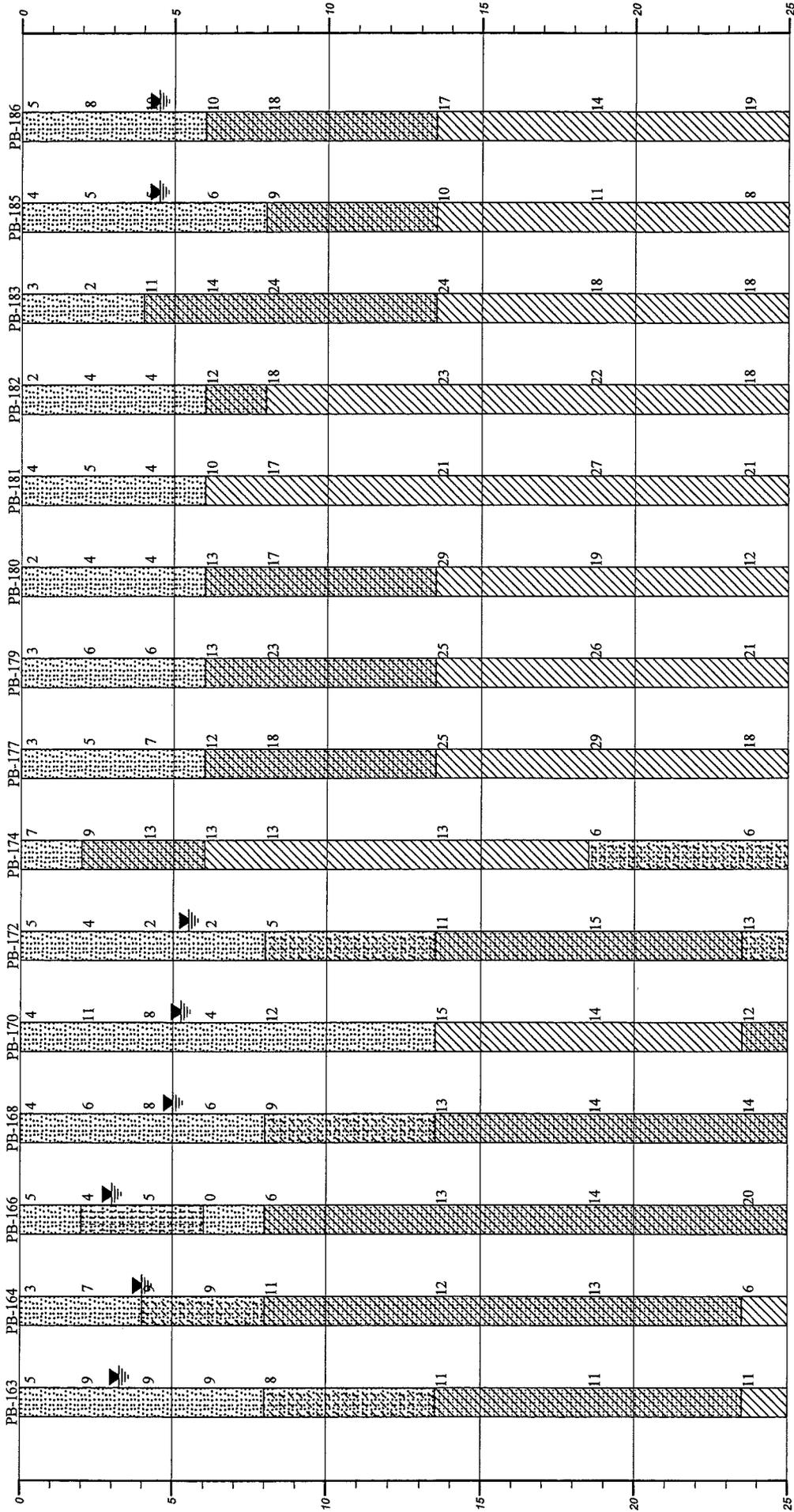
HORIZONTAL SCALE: DRAWN BY/APPROVED BY DATE DRAWN  
 VERTICAL SCALE: 1"=5' 11/15/2006

Epperson Ranch

PROJECT NO. 06-493

FIGURE NUMBER

Depth in Feet



Depth in Feet

Plan View

Strata symbols

- Poorly graded sand
- Clayey sand
- Low plasticity clay
- Poorly graded sand with clay

- Poorly graded sand with silt
- High plasticity clay
- Low plasticity organic silts

# GENERALIZED SOIL PROFILE

HORIZONTAL SCALE: \_\_\_\_\_ DRAWN BY/APPROVED BY \_\_\_\_\_ DATE DRAWN \_\_\_\_\_  
 VERTICAL SCALE: 1"=5' \_\_\_\_\_ 11/15/2006

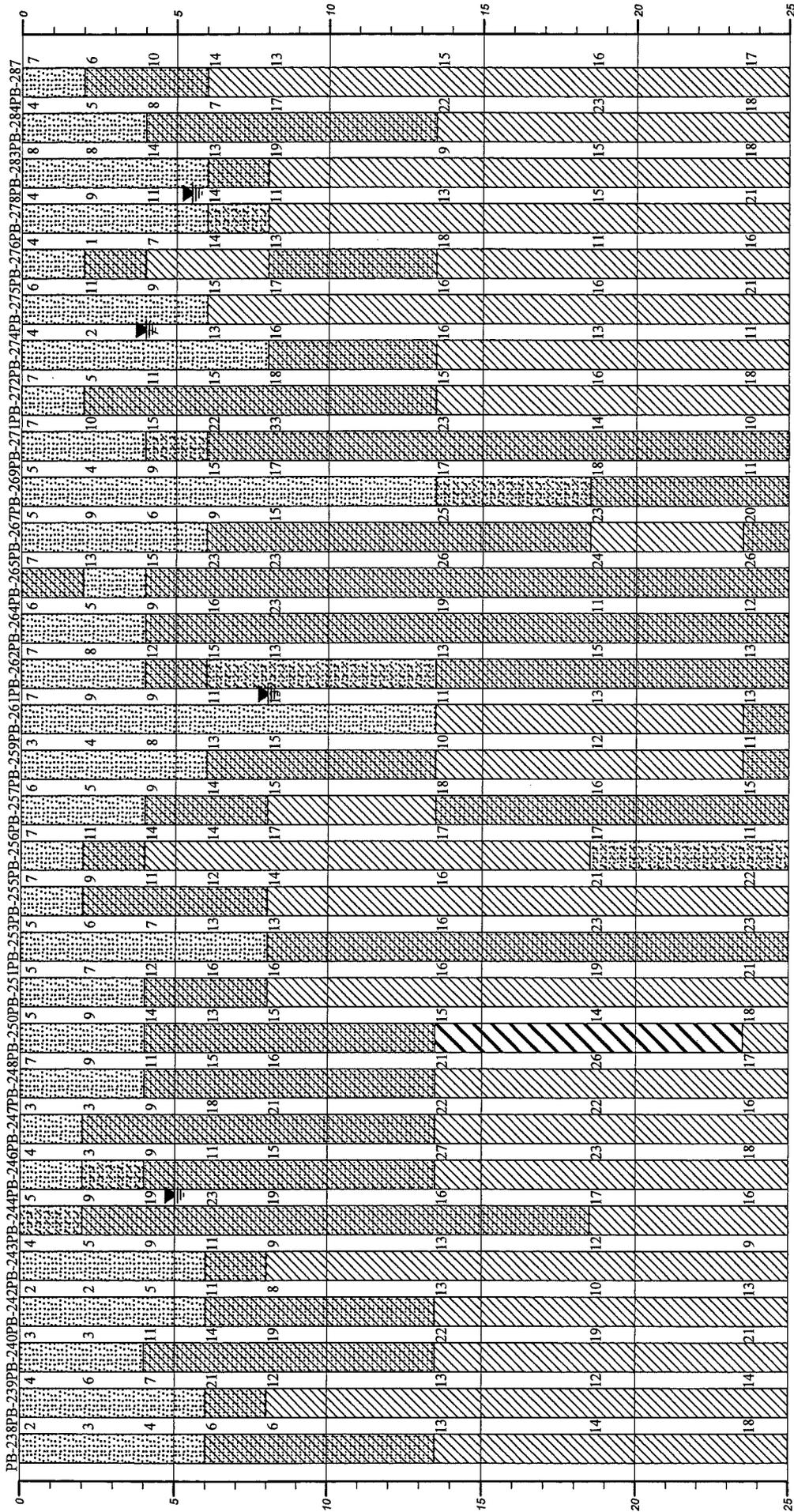
Epperson Ranch

PROJECT NO. 06-493

FIGURE NUMBER



Depth in Feet



- Strata symbols**
- Poorly graded sand
  - Clayey sand
  - Low plasticity clay
  - Poorly graded sand with clay
  - Poorly graded sand with silt
  - High plasticity clay

Plan View

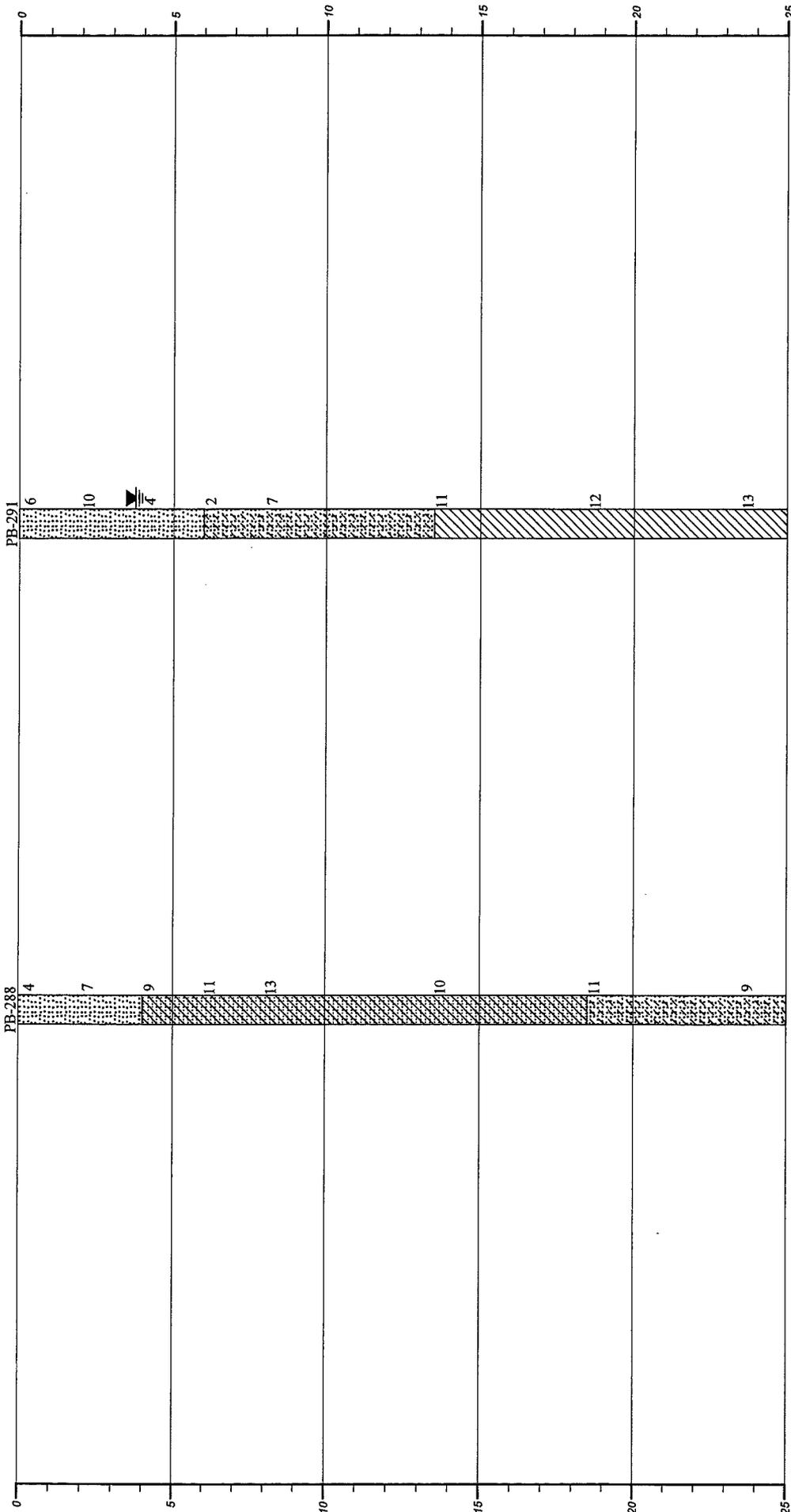
# GENERALIZED SOIL PROFILE

HORIZONTAL SCALE:	DRAWN BY/APPROVED BY	DATE DRAWN
VERTICAL SCALE: 1"=5'	Epperson Ranch	
		11/15/2006

PROJECT NO. 06-493

FIGURE NUMBER

Depth in Feet



Depth in Feet

Plan View

Strata symbols

-  Poorly graded sand
-  Clayey sand
-  Low plasticity clay
-  Poorly graded sand with clay

-  Poorly graded sand with silt
-  High plasticity clay

### GENERALIZED SOIL PROFILE

HORIZONTAL SCALE:	DRAWN BY/APPROVED BY	DATE DRAWN
VERTICAL SCALE: 1"=5'	Epperson Ranch	11/15/2006

PROJECT NO. 06-493

FIGURE NUMBER

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
PB-1	offset	--	1.8	--	0.5
PB-3	offset	--	3.0	--	1.0
PB-4	offset	--	2.5	--	1.0
PB-7	106.2	103.7	2.5	105.2	1.0
PB-8	106.2	103.5	2.8	105.2	1.0
PB-9	109.0	105.5	3.5	107.5	1.5
PB-11	109.3	106.3	3.0	107.8	1.5
PB-13	109.1	106.6	2.5	107.6	1.5
PB-14	108.8	107.3	1.5	108.3	0.5
PB-15	109.2	107.2	2.0	108.4	0.8
PB-16	109.1	107.6	1.5	108.6	0.5
PB-18	109.7	108.0	1.8	109.2	0.5
PB-20	109.9	107.9	2.0	108.9	1.0
PB-22	111.4	109.4	2.0	110.4	1.0
PB-24	110.2	108.2	2.0	109.2	1.0
PB-26	109.7	108.2	1.5	109.2	0.5
PB-27	111.5	109.3	2.3	110.5	1.0
PB-28	110.4	106.9	3.5	109.4	1.0
PB-30	113.5	111.8	1.8	112.5	1.0
PB-32	115.4	112.4	3.0	114.4	1.0
PB-34	114.1	110.1	4.0	112.6	1.5
PB-36	117.5	114.0	3.5	116.0	1.5
PB-37	119.0	116.5	2.5	118.0	1.0
PB-38	117.5	115.0	2.5	116.5	1.0
PB-40	117.8	114.1	3.8	116.3	1.5
PB-41	117.8	115.3	2.5	116.8	1.0
PB-43	118.6	115.1	3.5	117.1	1.5
PB-46	114.4	--	N.E.	113.4	1.0
PB-47	116.1	--	N.E.	115.1	1.0
PB-49	118.7	113.7	5.0	116.2	2.5
PB-50	118.3	114.8	3.5	116.8	1.5
PB-51	118.4	114.4	4.0	116.4	2.0
PB-53	119.0	114.5	4.5	117.0	2.0
PB-55	119.3	115.8	3.5	117.8	1.5
PB-56	119.6	115.9	3.8	118.1	1.5
PB-58	122.6	118.6	4.0	120.6	2.0
PB-61	117.1	113.9	3.3	116.1	1.0
PB-62	119.2	115.7	3.5	117.7	1.5

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
PB-65	119.2	114.7	4.5	118.2	1.0
PB-67	121.5	118.0	3.5	120.0	1.5
PB-68	123.1	116.9	6.3	120.1	3.0
PB-70	124.0	119.5	4.5	121.7	2.3
PB-72	124.1	118.9	5.3	121.6	2.5
PB-73	124.4	117.9	6.5	121.4	3.0
PB-75	122.1	--	N.E.	120.6	1.5
PB-76 <sup>2</sup>	--	--	--	--	--
PB-77 <sup>2</sup>	--	--	--	--	--
PB-79 <sup>2</sup>	--	--	--	--	--
PB-80 <sup>2</sup>	--	--	--	--	--
PB-81 <sup>2</sup>	--	--	--	--	--
PB-83 <sup>2</sup>	--	--	--	--	--
PB-84	119.3	112.1	7.3	115.3	4.0
PB-85	118.8	115.8	3.0	116.8	2.0
PB-87	117.5	112.5	5.0	114.0	3.5
PB-89	117.6	114.4	3.3	115.6	2.0
PB-90	115.6	110.6	5.0	113.1	2.5
PB-92	113.5	111.3	2.3	112.5	1.0
PB-94	112.4	109.7	2.8	111.4	1.0
PB-95	111.9	109.4	2.5	110.9	1.0
PB-97	111.6	109.6	2.0	110.6	1.0
PB-99	111.6	110.1	1.5	110.6	1.0
PB-100	114.0	112.5	1.5	113.0	1.0
PB-101	111.6	109.4	2.3	110.6	1.0
PB-102	112.5	110.5	2.0	111.5	1.0
PB-105	110.0	108.8	1.3	109.0	1.0
PB-106	110.9	108.4	2.5	109.9	1.0
PB-107	112.1	108.9	3.3	111.1	1.0
PB-109	110.2	106.5	3.8	108.7	1.5
PB-111	110.6	107.1	3.5	109.1	1.5
PB-112	112.1	107.9	4.3	110.6	1.5
PB-115	110.5	105.5	5.0	109.0	1.5
PB-117	110.5	105.0	5.5	109.0	1.5
PB-119	113.3	106.8	6.5	110.3	3.0
PB-120	113.8	107.1	6.8	110.8	3.0
PB-122	112.0	105.0	7.0	109.0	3.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.
2. Not Needed or Staked per Heidt .

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
PB-123	110.4	105.4	5.0	108.4	2.0
PB-124	110.2	104.7	5.5	108.2	2.0
PB-125	111.6	105.6	6.0	108.6	3.0
PB-126	109.4	103.7	5.8	106.9	2.5
PB-128	113.2	110.2	3.0	111.2	2.0
PB-130	113.0	109.5	3.5	111.0	2.0
PB-133	114.3	109.3	5.0	112.3	2.0
PB-135	113.7	110.7	3.0	112.2	1.5
PB-137	115.9	112.7	3.3	114.4	1.5
PB-140	114.3	113.1	1.3	113.8	0.5
PB-142	115.9	114.4	1.5	115.4	0.5
PB-143	114.7	111.5	3.3	113.7	1.0
PB-146	116.7	113.5	3.3	115.2	1.5
PB-147	116.2	113.2	3.0	114.7	1.5
PB-148	116.1	112.9	3.3	114.6	1.5
PB-149	115.6	112.1	3.5	114.1	1.5
PB-151	120.4	118.7	1.8	119.4	1.0
PB-152	119.7	117.7	2.0	118.7	1.0
PB-155	123.0	119.5	3.5	121.5	1.5
PB-156	121.6	119.1	2.5	120.6	1.0
PB-157	121.0	118.8	2.3	120.0	1.0
PB-158	121.2	117.7	3.5	120.2	1.0
PB-160	122.6	118.9	3.8	121.1	1.5
PB-163	124.7	121.5	3.3	123.2	1.5
PB-164	125.1	121.1	4.0	123.1	2.0
PB-166	123.6	120.6	3.0	122.1	1.5
PB-168	offset	--	5.0	--	2.5
PB-170	124.5	119.3	5.3	122.0	2.5
PB-172	125.3	119.8	5.5	122.8	2.5
PB-174	125.9	--	N.E.	124.4	1.5
PB-177	115.3	--	N.E.	111.8	3.5
PB-179	114.7	--	N.E.	112.2	2.5
PB-180	113.9	--	N.E.	111.9	2.0
PB-181	110.5	--	N.E.	109.0	1.5
PB-182	109.1	--	N.E.	107.6	1.5
PB-183	106.4	--	N.E.	105.4	1.0
PB-185	107.0	102.5	4.5	105.5	1.5
PB-186	108.8	104.3	4.5	107.3	1.5

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
PB-188	111	106.0	5.0	109.0	2.0
PB-189	109.4	103.4	6.0	107.9	1.5
PB-190	108.5	103.3	5.3	107.0	1.5
PB-191	109.2	104.2	5.0	107.7	1.5
PB-195	118.7	110.2	8.5	115.2	3.5
PB-196	117.9	--	N.E.	114.4	3.5
PB-197	110.3	--	N.E.	107.8	2.5
PB-198	110.2	--	N.E.	107.7	2.5
PB-200	118.5	--	N.E.	114.5	4.0
PB-201	115.1	--	N.E.	112.1	3.0
PB-204	112.5	--	N.E.	109.5	3.0
PB-205	105.3	--	N.E.	103.8	1.5
PB-207	106.5	--	N.E.	105.0	1.5
PB-208	111.5	--	N.E.	110.0	1.5
PB-210	107.2	--	N.E.	105.2	2.0
PB-212	109.3	--	N.E.	106.3	3.0
PB-213	107.3	--	N.E.	104.8	2.5
PB-216	100.9	--	N.E.	99.9	1.0
PB-217	106.9	--	N.E.	105.4	1.5
PB-218	115.0	109.5	5.5	113.0	2.0
PB-219	114.7	--	N.E.	112.2	2.5
PB-221	122.4	117.4	5.0	118.9	3.5
PB-223	123.7	118.7	5.0	120.2	3.5
PB-224	113.3	--	N.E.	110.8	2.5
PB-226	109.8	--	N.E.	107.8	2.0
PB-228	112.3	--	N.E.	109.8	2.5
PB-229	108.7	--	N.E.	106.7	2.0
PB-231	107.4	--	N.E.	105.4	2.0
PB-232	106.3	--	N.E.	104.8	1.5
PB-234	105.4	--	N.E.	103.9	1.5
PB-235	106.1	--	N.E.	104.6	1.5
PB-238	118.4	--	N.E.	113.4	5.0
PB-239	115.4	--	N.E.	110.9	4.5
PB-240	118.5	--	N.E.	113.5	5.0
PB-242	112.6	--	N.E.	108.6	4.0
PB-243	109.5	--	N.E.	106.0	3.5
PB-244	107.6	--	5.0	105.6	2.0
PB-246	110.1	--	N.E.	107.6	2.5

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
PB-247	114.2	--	N.E.	111.2	3.0
PB-248	118.6	--	N.E.	114.6	4.0
PB-250	112.9	--	N.E.	109.9	3.0
PB-251	109.5	--	N.E.	106.5	3.0
PB-253	108.6	--	N.E.	106.1	2.5
PB-255	108.1	--	N.E.	105.6	2.5
PB-256	111.5	--	N.E.	109.0	2.5
PB-257	108.2	--	N.E.	105.7	2.5
PB-259	107.8	--	N.E.	105.3	2.5
PB-261	105.4	97.4	8.0	102.9	2.5
PB-262	104.0	--	N.E.	101.5	2.5
PB-264	104.6	--	N.E.	102.1	2.5
PB-265	105.3	--	N.E.	102.8	2.5
PB-267	105.0	--	N.E.	102.5	2.5
PB-269	105.4	--	N.E.	102.9	2.5
PB-271	107.2	--	N.E.	104.2	3.0
PB-272	105.1	--	N.E.	102.6	2.5
PB-274	117.7	113.7	4.0	115.2	2.5
PB-275	114.2	--	N.E.	111.7	2.5
PB-276	120.1	--	N.E.	117.1	3.0
PB-278	111.2	105.7	5.5	109.2	2.0
PB-283	105.5	--	N.E.	103.0	2.5
PB-284	109.5	--	N.E.	106.5	3.0
PB-287	104.6	--	N.E.	102.1	2.5
PB-288	115.6	--	N.E.	114.1	1.5
PB-291	114.5	110.8	3.8	113.0	1.5
AB-1	107.9	105.4	2.5	106.9	1.0
AB-2	106.3	103.8	2.5	105.3	1.0
AB-3	108.5	106.5	2.0	107.5	1.0
AB-4	109.7	107.7	2.0	108.7	1.0
AB-5	110.4	107.9	2.5	109.4	1.0
AB-6	111.3	108.8	2.5	110.3	1.0
AB-7	112.1	108.9	3.3	111.1	1.0
AB-8	110.5	106.5	4.0	109.5	1.0
AB-9	110.2	108.7	1.5	109.7	0.5
AB-10	111.3	--	N.E.	110.3	1.0
AB-11	113.7	109.5	4.3	112.2	1.5
AB-12	115.7	--	N.E.	114.7	1.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-13	115.5	111.3	4.3	114.5	1.0
AB-14	115.6	110.6	5.0	114.6	1.0
AB-15	116.7	112.5	4.3	115.7	1.0
AB-16	115.0	112.3	2.8	114.0	1.0
AB-17	115.7	112.7	3.0	114.7	1.0
AB-18	115.1	111.6	3.5	114.1	1.0
AB-19	114.5	110.0	4.5	113.5	1.0
AB-20	115.8	—	N.E.	114.8	1.0
AB-21	118.9	114.2	4.8	117.4	1.5
AB-22	120.9	—	N.E.	119.4	1.5
AB-23	122.0	119.3	2.8	121.0	1.0
AB-24	123.5	119.8	3.8	122.0	1.5
AB-25	123.8	—	N.E.	122.3	1.5
AB-26	122.9	—	N.E.	121.4	1.5
AB-27	121.5	116.5	5.0	120.5	1.0
AB-28	123.1	118.6	4.5	121.6	1.5
AB-29	123.4	118.4	5.0	121.9	1.5
AB-30	122.3	117.8	4.5	120.3	2.0
AB-31	121.4	117.4	4.0	119.9	1.5
AB-32	121.6	117.6	4.0	120.1	1.5
AB-33	121.4	117.4	4.0	119.9	1.5
AB-34	121.6	117.6	4.0	120.1	1.5
AB-35	121.3	117.1	4.3	119.8	1.5
AB-36	125.6	121.6	4.0	124.1	1.5
AB-37	122.1	118.1	4.0	120.6	1.5
AB-38	103.1	100.9	2.3	102.1	1.0
AB-39	103.2	100.2	3.0	102.2	1.0
AB-40	102.6	97.9	4.8	101.6	1.0
AB-41	102.6	—	N.E.	101.6	1.0
AB-42	104.9	99.4	5.5	103.4	1.5
AB-43	106.0	103.0	3.0	105.0	1.0
AB-44	107.6	105.1	2.5	106.6	1.0
AB-45	109.6	106.1	3.5	108.1	1.5
AB-46	110.4	107.4	3.0	108.9	1.5
AB-47	110.3	107.8	2.5	108.8	1.5
AB-48	110.8	109.8	1.0	110.3	0.5
AB-49	111.3	109.8	1.5	110.8	0.5
AB-50	112.9	108.2	4.8	111.9	1.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-51	113.4	111.2	2.3	112.4	1.0
AB-52	115.1	111.6	3.5	114.1	1.0
AB-53	117.1	113.6	3.5	116.1	1.0
AB-54	118.6	114.6	4.0	117.1	1.5
AB-55	119.2	114.7	4.5	117.2	2.0
AB-56	118.1	112.9	5.3	116.6	1.5
AB-57	117.8	—	N.E.	116.3	1.5
AB-58	116.9	111.9	5.0	115.9	1.0
AB-59	118.4	116.2	2.3	117.4	1.0
AB-60	119.2	116.5	2.8	118.2	1.0
AB-61	121.3	117.8	3.5	119.8	1.5
AB-62	122.1	119.4	2.8	121.1	1.0
AB-63	122.8	118.3	4.5	121.3	1.5
AB-64	125.2	—	N.E.	122.2	3.0
AB-65	123.3	119.8	3.5	120.8	2.5
AB-66	120.7	117.2	3.5	119.7	1.0
AB-67	120.4	117.7	2.8	119.4	1.0
AB-68	115.3	112.1	3.3	114.3	1.0
AB-69	114.9	111.4	3.5	113.9	1.0
AB-70	112.6	109.4	3.3	111.6	1.0
AB-71	111.7	108.0	3.8	110.7	1.0
AB-72	110.3	108.3	2.0	109.3	1.0
AB-73	110.1	108.1	2.0	109.1	1.0
AB-74	110.0	108.0	2.0	109.0	1.0
AB-75	108.1	105.4	2.8	106.6	1.5
AB-76	106.7	102.7	4.0	105.2	1.5
AB-77	105.2	102.2	3.0	104.2	1.0
AB-78	104.1	100.6	3.5	103.1	1.0
AB-79	103.9	101.9	2.0	103.4	0.5
AB-80	105.3	102.8	2.5	104.3	1.0
AB-81	106.8	—	N.E.	105.3	1.5
AB-82	107.8	105.3	2.5	106.8	1.0
AB-83	109.1	105.8	3.3	107.6	1.5
AB-84	109.0	107.8	1.3	108.2	0.8
AB-85	108.6	105.4	3.3	107.1	1.5
AB-86	106.1	103.1	3.0	104.6	1.5
AB-87	106.4	102.9	3.5	104.4	2.0
AB-88	106.9	103.2	3.8	104.9	2.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-89	107.9	102.9	5.0	105.4	2.5
AB-90	109.7	--	N.E.	106.7	3.0
AB-91	offset	--	5.5	--	3.0
AB-92	106.5	102.3	4.3	104.0	2.5
AB-93	105.1	101.1	4.0	103.6	1.5
AB-94	104.8	100.6	4.3	103.3	1.5
AB-95	104.1	99.9	4.3	102.6	1.5
AB-96	109.4	107.2	2.3	108.4	1.0
AB-97	109.5	107.5	2.0	108.5	1.0
AB-98	111.2	109.2	2.0	110.2	1.0
AB-99	112.6	109.9	2.8	111.6	1.0
AB-100	113.2	110.7	2.5	112.2	1.0
AB-101	118.3	114.8	3.5	116.8	1.5
AB-102	116.3	114.1	2.3	115.3	1.0
AB-103	117.0	114.5	2.5	116.0	1.0
AB-104	116.9	114.2	2.8	115.9	1.0
AB-105	116.5	114.3	2.3	115.5	1.0
AB-106	115.7	112.7	3.0	114.2	1.5
AB-107	115.1	110.9	4.3	113.6	1.5
AB-108	115.9	111.2	4.8	114.4	1.5
AB-109	117.1	--	N.E.	115.1	2.0
AB-110	117.6	113.1	4.5	115.6	2.0
AB-111	116.6	113.6	3.0	115.1	1.5
AB-112	117.3	--	N.E.	114.3	3.0
AB-113	119.0	--	N.E.	115.5	3.5
AB-114	116.5	--	N.E.	113.5	3.0
AB-115	115.6	113.1	2.5	114.6	1.0
AB-116	114.9	113.7	1.3	114.1	0.8
AB-117	115.4	112.7	2.8	114.4	1.0
AB-118	114.0	111.0	3.0	113.0	1.0
AB-119	114.4	110.4	4.0	112.4	2.0
AB-120	113.3	110.1	3.3	111.8	1.5
AB-121	109.7	106.2	3.5	108.2	1.5
AB-122	110.8	--	N.E.	109.3	1.5
AB-123	110.0	--	N.E.	108.0	2.0
AB-124	106.1	--	N.E.	104.1	2.0
AB-125	108.9	--	N.E.	106.4	2.5
AB-126	119.1	--	N.E.	115.1	4.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-127	121.2	--	N.E.	117.2	4.0
AB-128	112.6	--	N.E.	110.1	2.5
AB-129	115.3	--	N.E.	112.3	3.0
AB-130	117.2	--	N.E.	114.2	3.0
AB-131	116.5	112.0	4.5	114.5	2.0
AB-132	112.6	108.1	4.5	110.6	2.0
AB-133	111.3	--	N.E.	109.8	1.5
AB-134	--	--	4.0	--	2.0
AB-135	106.9	102.7	4.3	105.4	1.5
AB-136	106.6	103.6	3.0	105.6	1.0
AB-137	108.8	--	N.E.	106.3	2.5
AB-138	110.1	--	N.E.	107.1	3.0
AB-139	116.5	--	N.E.	113.5	3.0
AB-140	119.5	115.3	4.3	116.5	3.0
AB-141	124.3	119.1	5.3	120.3	4.0
AB-142	128.2	125.0	3.3	125.7	2.5
AB-143	125.7	122.7	3.0	123.2	2.5
AB-144	127.0	124.0	3.0	124.5	2.5
AB-145	131.8	128.8	3.0	129.3	2.5
AB-146	128.9	125.9	3.0	126.4	2.5
AB-147	120.5	--	N.E.	118.5	2.0
AB-148	115.1	112.1	3.0	112.6	2.5
AB-149	110.7	107.7	3.0	108.2	2.5
AB-150	109.1	105.6	3.5	106.4	2.8
AB-151	102.9	99.9	3.0	101.9	1.0
AB-152	104.2	101.2	3.0	103.2	1.0
AB-153	107.2	102.7	4.5	104.2	3.0
AB-154	112.2	--	N.E.	108.7	3.5
AB-155	117.7	--	N.E.	113.7	4.0
AB-156	124.7	117.7	7.0	120.2	4.5
AB-157	128.2	--	N.E.	123.2	5.0
AB-158	117.1	--	N.E.	113.1	4.0
AB-159	113.5	--	N.E.	111.5	2.0
AB-160	118.9	115.4	3.5	117.9	1.0
AB-161	117.0	113.5	3.5	116.0	1.0
AB-162	118.0	114.5	3.5	117.0	1.0
AB-163	118.4	--	N.E.	117.4	1.0
AB-164	117.9	--	N.E.	116.9	1.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-165	118.3	—	N.E.	116.8	1.5
AB-166	118.6	113.9	4.8	117.1	1.5
AB-167	118.8	115.3	3.5	117.8	1.0
AB-168	118.3	—	N.E.	116.3	2.0
AB-169	119.1	—	N.E.	117.1	2.0
AB-170	117.6	—	N.E.	115.6	2.0
AB-171	119.4	115.9	3.5	117.9	1.5
AB-172	120.8	117.3	3.5	119.3	1.5
AB-173	121.9	118.2	3.8	120.4	1.5
AB-174	123.5	118.0	5.5	120.5	3.0
AB-175	126.3	120.3	6.0	123.3	3.0
AB-176	118.3	115.1	3.3	117.3	1.0
AB-177	119.0	116.0	3.0	118.0	1.0
AB-178	120.3	117.3	3.0	119.3	1.0
AB-179	118.9	113.9	5.0	117.9	1.0
AB-180	117.8	—	N.E.	116.8	1.0
AB-181	117.4	114.2	3.3	116.4	1.0
AB-182	117.7	—	N.E.	116.7	1.0
AB-183	117.2	113.2	4.0	116.2	1.0
AB-184	117.1	112.9	4.3	116.1	1.0
AB-185	116.6	111.4	5.3	115.6	1.0
AB-186	115.7	112.7	3.0	114.7	1.0
AB-187	118.6	115.1	3.5	117.6	1.0
AB-188	119.1	115.1	4.0	117.6	1.5
AB-189	119.1	115.1	4.0	117.6	1.5
AB-190	117.1	112.9	4.3	115.6	1.5
AB-191	117.8	112.8	5.0	116.3	1.5
AB-192	120.1	115.1	5.0	118.1	2.0
AB-193	120.6	114.4	6.3	118.6	2.0
AB-194	119.4	114.9	4.5	117.9	1.5
AB-195	118.8	115.6	3.3	117.8	1.0
AB-196	119.3	114.6	4.8	117.8	1.5
AB-197	119.1	116.4	2.8	117.6	1.5
AB-198	118.8	115.3	3.5	117.3	1.5
AB-199	119.4	115.9	3.5	117.9	1.5
AB-200	120.5	117.0	3.5	119.0	1.5
AB-201	123.5	—	N.E.	121.5	2.0
AB-202	124.5	121.0	3.5	123.5	1.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-203	126.5	122.5	4.0	125.0	1.5
AB-204	127.1	122.6	4.5	125.6	1.5
AB-205	126.7	123.2	3.5	125.7	1.0
AB-206	125.9	121.4	4.5	124.4	1.5
AB-207	125.3	121.3	4.0	124.3	1.0
AB-208	113.5	109.3	4.3	112.5	1.0
AB-209	121.7	117.2	4.5	120.2	1.5
AB-210	122.3	118.1	4.3	121.3	1.0
AB-211	123.8	119.8	4.0	122.8	1.0
AB-212	124.9	120.9	4.0	123.9	1.0
AB-213	124.8	120.3	4.5	123.8	1.0
AB-214	124.8	119.3	5.5	122.8	2.0
AB-215	122.0	118.5	3.5	121.0	1.0
AB-216	124.7	118.0	6.8	122.7	2.0
AB-217	124.0	117.5	6.5	122.0	2.0
AB-218	124.3	118.1	6.3	122.3	2.0
AB-219	121.6	117.1	4.5	120.6	1.0
AB-220	121.0	116.5	4.5	119.5	1.5
AB-221	122.3	117.8	4.5	120.8	1.5
AB-222	122.1	118.6	3.5	121.1	1.0
AB-223	122.7	119.7	3.0	121.7	1.0
AB-224	125.1	--	N.E.	123.6	1.5
AB-225	125.6	--	N.E.	124.1	1.5
AB-226	124.5	--	N.E.	123.5	1.0
AB-227	124.7	--	N.E.	123.7	1.0
AB-228	125.2	118.5	6.8	122.7	2.5
AB-229	125.9	119.4	6.5	123.4	2.5
AB-230	118.2	114.7	3.5	117.2	1.0
AB-231	116.2	112.7	3.5	115.2	1.0
AB-232	115.6	--	N.E.	114.6	1.0
AB-233	117.0	114.3	2.8	116.0	1.0
AB-234	121.1	115.9	5.3	119.6	1.5
AB-235	120.1	116.6	3.5	119.1	1.0
AB-236	120.9	115.4	5.5	119.4	1.5
AB-237	120.9	116.4	4.5	119.4	1.5
AB-238	121.5	116.0	5.5	119.5	2.0
AB-239	120.3	117.3	3.0	119.3	1.0
AB-240	119.5	116.5	3.0	118.5	1.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-241	118.6	115.9	2.8	117.6	1.0
AB-242	118.5	116.0	2.5	117.5	1.0
AB-243	121.1	116.6	4.5	119.6	1.5
AB-244	122.6	118.6	4.0	121.1	1.5
AB-245	125.4	121.7	3.8	124.4	1.0
AB-246	123.4	119.9	3.5	122.4	1.0
AB-247	121.6	116.4	5.3	120.6	1.0
AB-248	120.9	117.4	3.5	119.9	1.0
AB-249	121.8	118.6	3.3	120.8	1.0
AB-250	115.3	111.3	4.0	114.3	1.0
AB-251	115.0	111.0	4.0	114.0	1.0
AB-252	113.8	109.3	4.5	112.8	1.0
AB-253	114.1	110.1	4.0	113.1	1.0
AB-254	112.8	111.3	1.5	111.8	1.0
AB-255	112.2	109.2	3.0	111.2	1.0
AB-256	112.1	109.9	2.3	111.1	1.0
AB-257	112.2	109.7	2.5	111.2	1.0
AB-258	112.8	110.6	2.3	111.8	1.0
AB-259	113.5	110.8	2.8	112.5	1.0
AB-260	115.2	109.5	5.8	113.2	2.0
AB-261	114.4	110.9	3.5	113.4	1.0
AB-262	114.9	110.4	4.5	113.4	1.5
AB-263	115.6	112.6	3.0	114.6	1.0
AB-264	115.9	112.4	3.5	114.9	1.0
AB-265	115.4	112.4	3.0	114.4	1.0
AB-266	113.4	110.4	3.0	112.4	1.0
AB-267	113.9	111.9	2.0	112.9	1.0
AB-268	112.8	108.3	4.5	110.8	2.0
AB-269	113.5	--	N.E.	112.0	1.5
AB-270	113.7	111.7	2.0	112.7	1.0
AB-271	114.8	111.6	3.3	113.3	1.5
AB-272	113.6	109.9	3.8	111.6	2.0
AB-273	114.3	111.8	2.5	113.3	1.0
AB-274	113.3	110.6	2.8	112.3	1.0
AB-275	113.8	111.3	2.5	112.8	1.0
AB-276	118.4	115.4	3.0	116.9	1.5
AB-277	112.3	--	N.E.	110.3	2.0
AB-278	117.3	112.6	4.8	115.8	1.5

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-279	117.3	112.3	5.0	115.3	2.0
AB-280	118.3	113.3	5.0	116.3	2.0
AB-281	120.5	117.0	3.5	118.5	2.0
AB-282	119.0	112.5	6.5	117.0	2.0
AB-283	118.9	115.2	3.8	117.9	1.0
AB-284	118.3	110.6	7.8	116.3	2.0
AB-285	118.8	--	N.E.	116.8	2.0
AB-286	117.3	112.8	4.5	115.8	1.5
AB-287	117.7	114.2	3.5	116.7	1.0
AB-288	119.6	116.1	3.5	118.6	1.0
AB-289	121.8	119.1	2.8	120.8	1.0
AB-290	124.1	--	N.E.	122.6	1.5
AB-291	120.8	118.3	2.5	119.8	1.0
AB-292	118.8	117.6	1.3	118.3	0.5
AB-293	124.5	119.5	5.0	123.0	1.5
AB-294	124.0	121.3	2.8	123.0	1.0
AB-295	126.7	123.2	3.5	125.2	1.5
AB-296	122.9	119.2	3.8	120.9	2.0
AB-297	124.3	120.3	4.0	122.3	2.0
AB-298	123.9	119.2	4.8	121.9	2.0
AB-299	122.9	118.9	4.0	120.9	2.0
AB-300	125.4	--	N.E.	122.4	3.0
AB-301	126.7	--	N.E.	123.7	3.0
AB-302	127.1	122.6	4.5	124.1	3.0
AB-303	126.2	123.2	3.0	124.2	2.0
AB-304	125.1	121.6	3.5	122.1	3.0
AB-305	126.8	123.3	3.5	123.8	3.0
AB-306	127.3	123.3	4.0	125.8	1.5
AB-307	125.0	121.0	4.0	123.5	1.5
AB-308	122.9	118.9	4.0	121.4	1.5
AB-309	123.5	119.5	4.0	122.0	1.5
AB-310	122.5	117.5	5.0	121.0	1.5
AB-311	125.3	121.3	4.0	123.8	1.5
AB-312	125.4	--	N.E.	123.9	1.5
AB-313	126.3	122.3	4.0	124.8	1.5
AB-314	125.1	121.1	4.0	123.6	1.5
AB-315	125.1	121.4	3.8	123.6	1.5
AB-316	124.3	121.3	3.0	122.8	1.5

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-317	125.1	121.9	3.3	123.6	1.5
AB-318	125.4	121.9	3.5	123.9	1.5
AB-319	125.6	122.4	3.3	124.1	1.5
AB-320	126.1	123.1	3.0	124.6	1.5
AB-321	126.6	123.1	3.5	125.1	1.5
AB-322	124.8	120.8	4.0	123.3	1.5
AB-323	113.3	110.3	3.0	112.3	1.0
AB-324	115.5	112.5	3.0	114.5	1.0
AB-325	117.4	114.4	3.0	116.4	1.0
AB-326	120.6	117.1	3.5	119.6	1.0
AB-327	122.9	118.4	4.5	121.9	1.0
AB-328	123.9	118.9	5.0	122.4	1.5
AB-329	123.2	--	N.E.	122.2	1.0
AB-330	122.1	--	N.E.	121.1	1.0
AB-331	120.6	--	N.E.	119.6	1.0
AB-332	117.1	113.1	4.0	116.1	1.0
AB-333	112.4	108.4	4.0	111.4	1.0
AB-334	115.6	111.1	4.5	114.6	1.0
AB-335	117.5	114.8	2.8	116.5	1.0
AB-336	117.9	113.9	4.0	116.9	1.0
AB-337	115.8	112.8	3.0	114.8	1.0
AB-338	116.4	112.4	4.0	114.9	1.5
AB-339	112.6	109.9	2.8	111.6	1.0
AB-340	113.0	110.0	3.0	112.0	1.0
AB-341	112.7	109.7	3.0	111.7	1.0
AB-342	114.3	110.8	3.5	113.3	1.0
AB-343	115.9	112.2	3.8	114.9	1.0
AB-344	115.0	112.3	2.8	114.0	1.0
AB-345	113.8	109.8	4.0	112.8	1.0
AB-346	114.6	111.1	3.5	113.6	1.0
AB-347	115.5	111.5	4.0	114.5	1.0
AB-348	111.4	106.4	5.0	110.4	1.0
AB-349	111.3	107.8	3.5	110.3	1.0
AB-350	113.5	110.0	3.5	112.5	1.0
AB-351	115.2	111.2	4.0	113.7	1.5
AB-352	113.2	109.7	3.5	112.2	1.0
AB-353	109.6	104.1	5.5	108.6	1.0
AB-354	110.8	--	N.E.	109.8	1.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-355	107.2	--	N.E.	105.7	1.5
AB-356	105.6	101.1	4.5	104.6	1.0
AB-357	107.5	104.3	3.3	106.0	1.5
AB-358	112.1	108.9	3.3	110.6	1.5
AB-359	111.4	--	N.E.	109.9	1.5
AB-360	108.7	105.7	3.0	107.7	1.0
AB-361	105.5	103.3	2.3	104.5	1.0
AB-362	112.2	109.0	3.3	110.7	1.5
AB-363	110.3	107.6	2.8	109.3	1.0
AB-364	112.2	109.2	3.0	111.2	1.0
AB-365	114.6	111.6	3.0	113.1	1.5
AB-366	111.8	108.8	3.0	110.8	1.0
AB-367	116.0	112.0	4.0	114.5	1.5
AB-368	114.2	--	N.E.	112.7	1.5
AB-369	115.5	--	N.E.	114.0	1.5
AB-370	113.4	--	N.E.	111.9	1.5
AB-371	113.1	--	N.E.	111.6	1.5
AB-372	117.6	--	N.E.	115.1	2.5
AB-373	119.0	--	N.E.	116.0	3.0
AB-374	121.6	--	N.E.	118.6	3.0
AB-375	121.1	--	N.E.	118.1	3.0
AB-376	110.7	--	N.E.	108.7	2.0
AB-377	109.9	--	N.E.	107.9	2.0
AB-378	108.7	--	N.E.	106.7	2.0
AB-379	106.2	103.0	3.3	104.7	1.5
AB-380	110.4	--	N.E.	108.4	2.0
AB-381	110.7	--	N.E.	108.7	2.0
AB-382	111.6	--	N.E.	109.6	2.0
AB-383	112.6	108.1	4.5	110.1	2.5
AB-384	118.4	--	N.E.	114.9	3.5
AB-385	120.3	--	N.E.	116.8	3.5
AB-386	124.6	--	N.E.	120.9	3.8
AB-387	130.4	126.7	3.8	126.4	4.0
AB-388	131.0	125.0	6.0	127.0	4.0
AB-389	129.5	123.5	6.0	125.5	4.0
AB-390	128.9	122.9	6.0	125.4	3.5
AB-391	130.6	124.6	6.0	126.6	4.0
AB-392	125.9	--	N.E.	122.9	3.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Watertable	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-393	124.0	122.0	2.0	122.5	1.5
AB-394	117.7	--	N.E.	114.7	3.0
AB-395	124.1	118.9	5.3	120.6	3.5
AB-396	119.0	113.8	5.3	116.0	3.0
AB-397	118.4	114.2	4.3	117.4	1.0
AB-398	122.2	118.2	4.0	120.7	1.5
AB-399	122.2	118.7	3.5	120.7	1.5
AB-400	115.7	--	N.E.	113.2	2.5
AB-401	117.9	--	N.E.	114.9	3.0
AB-402	112.9	--	N.E.	110.4	2.5
AB-403	112.9	--	N.E.	110.4	2.5
AB-404	118.6	--	N.E.	115.6	3.0
AB-405	119.7	--	N.E.	116.7	3.0
AB-406	118.7	--	N.E.	115.7	3.0
AB-407	108.7	--	N.E.	106.7	2.0
AB-408	108.4	--	N.E.	106.4	2.0
AB-409	108.1	--	N.E.	106.1	2.0
AB-410	118.5	--	N.E.	115.5	3.0
AB-411	116.5	--	N.E.	113.5	3.0
AB-412	108.9	--	N.E.	106.4	2.5
AB-413	106.5	103.5	3.0	104.5	2.0
AB-414	117.9	--	N.E.	114.9	3.0
AB-415	119.8	--	N.E.	116.8	3.0
AB-416	117.2	--	N.E.	114.2	3.0
AB-417	108.6	--	N.E.	106.1	2.5
AB-418	106.7	--	N.E.	104.2	2.5
AB-419	112.1	107.1	5.0	109.6	2.5
AB-420	119.0	--	N.E.	116.0	3.0
AB-421	124.1	--	N.E.	121.1	3.0
AB-422	122.6	118.4	4.3	120.1	2.5
AB-423	128.6	125.1	3.5	125.6	3.0
AB-424	127.3	123.1	4.3	124.3	3.0
AB-425	127.9	--	N.E.	124.9	3.0
AB-426	128.3	--	N.E.	124.8	3.5
AB-427	125.2	--	N.E.	122.2	3.0
AB-428	126.2	122.7	3.5	123.2	3.0
AB-429	121.6	117.6	4.0	119.1	2.5
AB-430	127.3	--	N.E.	124.3	3.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

**Table 1 Groundwater Data**

Project Name: Epperson Ranch		FES Project No.: 06-493-2			
Boring No.	Ground Elevation (ft)	Groundwater Data at Time of Drilling		Estimated Seasonal High Water Table	
		Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
<b>SPT Borings</b>					
AB-431	112.9	--	N.E.	109.9	3.0
AB-432	111.6	--	N.E.	109.1	2.5
AB-433	118.6	--	N.E.	115.1	3.5
AB-434	116.6	--	N.E.	113.1	3.5
AB-435	109.3	--	N.E.	106.8	2.5
AB-436	111.3	--	N.E.	108.8	2.5
AB-437	107.9	--	N.E.	105.4	2.5
AB-438	106.9	--	N.E.	104.4	2.5
AB-439	107.0	--	N.E.	104.5	2.5
AB-440	117.2	--	N.E.	113.7	3.5
AB-441	109.5	--	N.E.	107.0	2.5
AB-442	119.6	115.4	4.3	116.1	3.5
AB-443	120.9	--	N.E.	117.4	3.5
AB-444	129.2	--	N.E.	125.2	4.0
AB-445	131.4	--	N.E.	127.4	4.0
AB-446	129.9	--	N.E.	125.9	4.0
AB-447	129.3	125.8	3.5	126.3	3.0
AB-448	129.2	126.5	2.8	126.7	2.5
AB-449	129.7	126.2	3.5	126.7	3.0
AB-450	127.9	--	N.E.	124.9	3.0

Notes:

1. Ground Elevations were provided by Heidt & Associates, Inc.

# Important Information About Your Geotechnical Engineering Report

*Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.*

*The following information is provided to help you manage your risks.*

## **Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects**

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. *No one except you* should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one—not even you*—should apply the report for any purpose or project except the one originally contemplated.

## **A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors**

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, *do not rely on a geotechnical engineering report* that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,

- elevation, configuration; location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

## **Subsurface Conditions Can Change**

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

## **Most Geotechnical Findings Are Professional Opinions**

Site exploration identifies subsurface conditions *only* at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an *opinion* about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

**APPENDIX A**  
**Logs of Soil Borings**

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water** Initial  $\nabla$  : 1.75

**Elevation:** 106.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 1.75

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0		SP	Loose, gray, fine SAND	▲	1	3 4	8																
		SC	Loose, gray/orange, clayey fine SAND with orange staining medium dense	▲	2	3 5	9																
5						5 6	11																
						4 5	11																
						6 7	15																
10		CL	Firm, orange/green, sandy CLAY	▲	6	5 4	8																
15						light gray	▲	7	4 3	6													
20									orange with trace limestone fragments	▲	8	3 3	5										
25		End of Boring.				2																	
30																							
35																							

Offset approx. 70 feet west.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 3

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND  brown	[Black triangle]	1	2	4													
					2	2														
	[Diagonal hatching]	SC	Loose, brown, clayey fine SAND with orange staining to sandy CLAY (CL)  medium dense, gray	[Black triangle]	3	3	9													
					4	4														
					5	5														
					5	5														
					7	7														
	[Diagonal hatching]	CL	Firm, light gray/brown, sandy CLAY	[Black triangle]	6	6	14													
					7	7														
	[Diagonal hatching]	CL	Firm, light gray/brown, sandy CLAY	[Black triangle]	7	3	8													
					4	4														
	[Diagonal hatching]	CL	Firm, light gray/brown, sandy CLAY	[Black triangle]	8	3	5													
					3	3														
			End of Boring.			2														

Offset approx. 150 feet south-east.

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2.5

**Elevation:** 106.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance											
				Type	No.			Blows	10	20	30	40	60	80					
0	[Dotted pattern]	SP	Very loose, gray, fine SAND	[Black triangle]	1	1	4	[Graph line]											
					2	2													
			2	2	loose, brown	[Black triangle]	2		2	5									
			3	3															
5						3	1		6										
						4	2												
						4	2		7										
						5	2												
		SC	Loose, brown, clayey fine SAND	[Black triangle]	5	5	8												
									4	4									
									4	4									
									4	4									
15	[Diagonal lines]	CL	Stiff, light green, sandy CLAY	[Black triangle]	6	4	8												
									4	4									
						7	2	9											
						5	4												
25			End of Boring.		8	4	6												
					3	3													
30																			
35																			

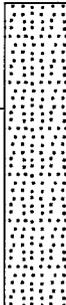
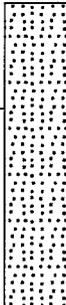
This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 106.2  
**Logged By:** JBR

**Depth to Water >** Initial  : 2.75

**At Completion**  : 2.75

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance																
				Type	No.			10	20	30	40	60	80											
0		SP	Very loose, dark brown, fine SAND	▲	1	1	3																	
					1	1																		
					brown		2	2	4															
							2	2																
5		SP	medium dense	▲	3	1	4																	
					2	2																		
										4	5	11												
										6	6													
10		SC	Medium dense, brown, clayey fine SAND	▲	5	5	12																	
									5	5														
										7	7													
15		SC	gray/brown	▲	6	4	11																	
									6	6														
20		CL	Stiff, light green, sandy CLAY	▲	7	4	9																	
									5	5														
25		CL	End of Boring.	▲	8	3	9																	
									5	5														
30																								
35																								

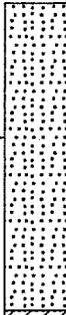
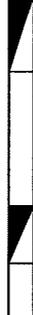
This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 109.0  
**Logged By:** JBR

**Depth to Water >** Initial  : 3.5

**At Completion**  : 3.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance																
				Type	No.			10	20	30	40	60	80											
0		SP	Loose, brown, fine SAND		1	1	5																	
			loose		2	2		3																
			medium dense		3	4		5																
5			light brown		4	5		6																
		SC	Medium dense, gray, clayey fine SAND		5	6	7	21																
10																								
	CL	Firm, green, sandy CLAY		6	7	8	17																	
15																								
	CL	Firm, green, sandy CLAY		7	8	9	9																	
20																								
	CL	soft		8	9	10	4																	
25																								
	End of Boring.				3	4	2																	
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 109.3  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3

**At Completion**  $\nabla$  : 3

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance										
								10	20	30	40	60	80					
0		SP	Very loose, gray, fine SAND	▲	1	1	3											
			loose, brown		2	3												
			light brown	3	4													
5			medium dense, dark brown	4	4													
		SC	Medium dense, gray, clayey fine SAND	▲	5	6	3	7										
						7	4											
10					8	7												
					7	8												
15	CL	Firm, green, sandy CLAY	▲	7	7	7	15											
					8	8												
20					3	5												
	CL	soft	▲	8	2	4	7											
					1	3												
25			End of Boring.			2	3											
						1												
						2												
30																		
35																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2.5

**Elevation:** 109.1  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance														
				Type	No.			Blows	10	20	30	40	60	80								
0		SP	Loose, gray, fine SAND	-	1	1	5															
			loose, dark brown		2	2		3														
			brown		3	4		4														
5		SC	Medium dense, brown, clayey fine SAND	-	4	4	4	9														
					5	4	5	6														
					6	7	8	15														
					7	8	9	16														
					8	7	8	16														
15	CL	Firm, green, sandy CLAY	-	7	3	3	6															
				8	2	2	3															
25			End of Boring.			1																
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2

**Elevation:** 109.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance														
				Type	No.		B	Blows	10	20	30	40	60	80							
0	[Soil Symbol: SP-SM]	SP-SM	Loose, dark brown, fine SAND with trace silt	1	1	3															
1		SP	Loose, brown, fine SAND	2	3	5															
2	[Soil Symbol: SC]	SC	Medium dense, brown, clayey fine SAND	3	2	8															
3				4	3	13															
4				5	5	13															
5				6	6																
6				7	7																
7				8	8																
8				6	6																
9				8	8																
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
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22																					
23																					
24																					
25																					
26																					
27																					
28																					
29																					
30																					
31																					
32																					
33																					
34																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water** Initial  $\nabla$  : 1.5

**Elevation:** 109.1  
**Logged By:** JBR

**At Completion**  $\nabla$  : 1.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance												
				Type	No.			Blows	10	20	30	40	60	80						
0	[Dotted pattern]	SP	Very loose, dark brown, fine SAND  loose, light brown	[Black triangle]	1	1	3													
					2	3														
5	[Cross-hatched pattern]	SC	Loose, gray/brown, clayey fine SAND  medium dense	[Black triangle]	3	3	7													
					4	4														
10	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY   gray/green with trace limestone fragments	[Black triangle]	5	4	11													
					6	5														
15	[Diagonal lines]	CL		[Black triangle]	7	6	10													
20	[Diagonal lines]	SC	Loose, gray/brown, clayey fine SAND	[Black triangle]	8	4	6													
25			End of Boring.																	
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 109.7  
**Logged By:** JBR

**Depth to Water >** Initial  : 1.75

**At Completion**  : 1.75

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance						
								10	20	30	40	60	80	
0		SP	Very loose, brown, fine SAND	▲	1	1	3							
			loose, dark brown		2	1 2 3 5		10						
5		SC	Loose, gray/brown, clayey fine SAND	▲	3	4	9							
					4	4 5		10						
10		CL	Stiff, gray/brown, sandy CLAY	▲	5	6 7 8	15							
					firm, light green/gray with trace limestone fragments	6		5 4	8					
					light orange/brown	7		4 3	8					
20			gray/brown to clayey fine SAND (SC)	▲	8	4 4	7							
25					End of Boring.				3					
30														
35														

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2

**Elevation:** 109.9  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance														
				Type	No.		B	Blows	10	20	30	40	60	80							
0	SP	SP	Very loose, brown, fine SAND	1	1	2															
			loose, dark brown				1	1													
	SC	SC	Very loose, gray/orange, clayey fine SAND	2	2	5															
			gray/brown				2	3													
			loose, orange/brown				3	2													
							4	2													
							5	3													
5	CL	CL	Stiff, orange, sandy CLAYS	3	4	10															
			firm with trace limestone fragments				4	4													
							6	6													
15	SC	SC	Very loose, orange/brown, clayey fine SAND	7	3	7															
			End of Boring.				4	3													
20	SC	SC	Very loose, orange/brown, clayey fine SAND	8	2	4															
							2	2													
							2	2													
25			End of Boring.																		
30																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2

**Elevation:** 111.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance													
				Type	No.			Blows	10	20	30	40	60	80							
0		SP-SM	Very loose, dark gray/brown, fine SAND with trace silt and minor organic staining		1	1															
		SP	Very loose, brown, fine SAND with trace roots/rootlets		2	2															
		CL	Firm, gray, sandy CLAY to clayey fine SAND (SC) stiff  gray/green		3	3															
					4	5	11														
					5	6	13														
					6	6															
						7															
		SP-SC	Medium dense, light gray, fine SAND with trace clay		7	8															
						8															
		SC	Medium dense, light gray/green, clayey fine SAND		8	5															
			End of Boring.			6															
						7															
30																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2

**Elevation:** 110.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[SP-SM symbol]	SP-SM	Very loose, dark gray/brown, fine SAND with trace silt and minor organic staining	[Sample 1 symbol]	1	1														
		SP	Loose, orangish brown, fine SAND		2	2	4													
	[CL symbol]	CL	Stiff, gray, sandy CLAY to clayey fine SAND (SC) orange/gray/brown	[Sample 3 symbol]	3	3														
5					4	4	7													
	[SC symbol]	SC	Medium dense, orange/gray, clayey fine SAND	[Sample 5 symbol]	5	5														
10					6	6	14													
	[CL symbol]		loose, light gray/green to sandy CLAY (CL)	[Sample 6 symbol]	6	5														
15					7	6	9													
	[CL symbol]	CL	Stiff, light gray/green, sandy CLAY intermixed with clayey fine SAND (SC) with trace limestone fragments	[Sample 7 symbol]	7	8														
20					8	6	15													
	[SC symbol]	SC	Loose, light gray/green, clayey fine SAND	[Sample 8 symbol]	8	5														
25			End of Boring.			5														
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 1.5

**Elevation:** 109.7  
**Logged By:** JBR

**At Completion**  $\nabla$  : 1.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance														
				Type	No.			10	20	30	40	60	80									
0	[SP-SM symbol]	SP-SM	Very loose, dark gray/brown, fine SAND with trace silt	▲	1	1																
		SP	Loose, light brown, fine SAND	▲	2	2 3 4	4															
	[SC symbol]	SC	Loose, gray, clayey fine SAND  very loose  medium dense with trace limestone	▲	3	5																
5						6	9															
						3	3															
						2	2															
						8	14															
				▲	5	15	29															
				▲	6	3 5 7	12															
				▲	7	4 5 5	10															
				▲	8	3 4 6	10															
25			End of Boring.																			
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 111.5  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 2.25

**At Completion**  $\nabla$  : 2.25

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance								
				Type	No.			10	20	30	40	60	80			
0		SP-SM	Very loose, dark gray/brown, fine SAND with trace silt		1	1										
		SP	Loose, light brown, fine SAND		2	2	4									
		SP-SC	Loose, gray, fine SAND with trace clay		3	3	6									
5					4	4	8									
		SC	Loose, gray, clayey fine SAND		5	2	7									
					6	3	9									
10					7	4	17									
		SP-SC	Medium dense, light brown, fine SAND with trace clay		8	5										
15					9	7										
		CL	Soft, light green, sandy CLAY		7	3	4									
20					8	2										
			firm		8	2	6									
25			End of Boring.			3										
30																
35																

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 110.4  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.5

**At Completion**  $\nabla$  : 3.5

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance					
								10	20	30	40	60	80
0		SP	Loose, gray/brown, fine SAND  dark brown  brown	▲	1	1	7						
					3								
					4								
					2	6							
		3											
5			3	4	▲	5	10						
		5											
			4	5	▲	6	9						
		5											
		4	4	▲	4	9							
					4								
		8	17	▲	5	27							
					10								
10		CL	Firm, orange/brown, sandy CLAY  light green	▲	6	5	7						
					4								
					3								
15					7	4							
					3								
20					4	7							
					3								
					4								
25			End of Boring.		8	3	7						
						3							
						4							
30													
35													

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 1.75

**Elevation:** 113.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : 1.75

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0		SP	Very loose, gray, fine SAND with trace rootlets  loose, brown  medium dense	Type	1	1	3																
1					1																		
2					3																		
3		SP-SC	Medium dense, brown, fine SAND with trace clay	Type	2	3	8																
4					4																		
5		SC	Medium dense, gray/brown, clayey fine SAND	Type	3	5	11																
6					5																		
7		SC	Medium dense, gray/brown, clayey fine SAND	Type	4	6	13																
8	6																						
9	7																						
10	SC	Medium dense, gray/brown, clayey fine SAND	Type	5	5	11																	
11				4																			
12				7																			
15	CL	Stiff, light green, sandy CLAY with limestone fragmetns	Type	6	6	15																	
16				7																			
17				8																			
20	CL	Stiff, light green, sandy CLAY with limestone fragmetns	Type	7	6	13																	
21				6																			
25	SC	Medium dense, light gray, clayey fine SAND	Type	8	5	11																	
26				7																			
27	SC	Medium dense, light gray, clayey fine SAND	Type	8	4	11																	
28				5																			
30	SC	Medium dense, light gray, clayey fine SAND	Type	8	4	11																	
31				5																			
35	End of Boring.																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 3

**Elevation:** 115.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3

Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance								
				Type	No.			10	20	30	40	60	80			
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND with trace rootlets loose, brown	[Black triangle]	1	1	3	[Graph point]								
					2	2										
	[Cross-hatched pattern]	SC	Loose, light brown, clayey fine SAND medium dense, gray	[Black triangle]	3	4	8	[Graph point]								
					4	4										
5	[Diagonal hatched pattern]	CL	Very stiff, gray, sandy CLAY  green  with trace limestone fragments	[Black triangle]	5	3	10	[Graph point]								
					6	4										
	[Diagonal hatched pattern]	CL	Very stiff, gray, sandy CLAY  green  with trace limestone fragments	[Black triangle]	7	5	15	[Graph point]								
					8	6										
10	[Diagonal hatched pattern]	CL	Very stiff, gray, sandy CLAY  green  with trace limestone fragments	[Black triangle]	9	7	17	[Graph point]								
					10	8										
15	[Diagonal hatched pattern]	CL	Very stiff, gray, sandy CLAY  green  with trace limestone fragments	[Black triangle]	6	8	17	[Graph point]								
					8	8										
20	[Diagonal hatched pattern]	CL	Very stiff, gray, sandy CLAY  green  with trace limestone fragments	[Black triangle]	7	9	16	[Graph point]								
					9	6										
25	[Dotted pattern]	SP-SC	Loose, light gray, fine SAND with trace clay	[Black triangle]	8	4	10	[Graph point]								
			End of Boring.			5										
30																
35																

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 4

**Elevation:** 114.1  
**Logged By:** JBR

**At Completion**  $\nabla$  : 4

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																
				Type	No.			Blows	10	20	30	40	60	80										
0		SP	Loose, gray, fine SAND  light brown  medium dense	▲	1	1	6																	
2					2																			
4					3																			
5					4																			
5		SP-SC	Medium dense, brown, fine SAND with trace clay	▲	5	5	11																	
6					6																			
10		CL	Stiff, green, sandy CLAY	▲	6	6	15																	
15					7																			
20	SP-SC	Medium dense, light green, fine SAND with trace clay	▲	7	6	17																		
25				8	8																			
25			End of Boring.																					
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 117.5  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.5

**At Completion**  $\nabla$  : 3.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance								
				Type	No.			Blows	10	20	30	40	60	80		
0	[Dotted pattern]	SP	Very loose, dark brown, fine SAND  loose, brown	[Black triangle]	1	1	4									
					2	2										
					2	3	7									
						4										
5	[Dotted pattern]	SP-SC	Medium dense, light gray/brown, fine SAND with trace clay	[Black triangle]	3	5	13									
					4	6										
						7										
						8										
						10										
						12										
10	[Diagonal lines]	SC	Medium dense, brown, clayey fine SAND  with trace limestone fragments	[Black triangle]	4	6	15									
					5	8										
						8										
						10										
						12										
15	[Diagonal lines]			[Black triangle]	6	4	11									
					5	6										
						6										
						7										
						7										
20	[Diagonal lines]			[Black triangle]	7	6	14									
						7										
						7										
						7										
25	[Dotted pattern]	SP-SC	Loose, light gray, fine SAND with trace clay	[Black triangle]	8	4	8									
						3										
						5										
			End of Boring.													
30																
35																

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2.5

**Elevation:** 119.0  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance											
				Type	No.			10	20	30	40	60	80						
0		SP	Loose, brown, fine SAND		1	1													
						2	2												
		SP-SC	Medium dense, brown, fine SAND with trace clay		2	3	5												
						3	4												
5		SP	Medium dense, brown, fine SAND		4	5	11												
						3	6												
		SC	Stiff, gray/brown, clayey fine SAND		5	7	15												
						5	8												
10																			
15		CL	Stiff, gray/green, sandy CLAY		6	3	10												
						5													
20		SC	Medium dense, gray/brown, clayey fine SAND		7	4	11												
						5													
						6													
25		SP	Loose, light gray, fine SAND		8	4	9												
						4													
						5													
30			End of Boring.																
35																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 117.8  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.75

**At Completion**  $\nabla$  : 3.75

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance					
				Type	No.			10	20	30	40	60	80
0	SP	SP	Loose, gray, fine SAND	▲	1	1	5						
			brown					2	3				
	SC	SC	Loose, brown, clayey fine SAND	▲	3	4	8						
			medium dense, gray/brown					4	4				
	CL	CL	Firm, gray, sandy CLAY	▲	5	5	8						
								4	4				
	CH	CH	Stiff, green, CLAY	▲	6	4	10						
								5	5				
	SC	SC	Medium dense, gray/green, clayey fine SAND with limestone fragments	▲	7	4	11						
								6	5				
	SP-SC	SP-SC	Medium dense, light gray, fine SAND with trace clay	▲	8	4	11						
			End of Boring.					5	6				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2.5

**Elevation:** 117.8  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance																
				Type	No.			10	20	30	40	60	80											
0	[Dotted pattern]	SP	Very loose, brown, fine SAND loose	[Black triangle]	1	1	3																	
					2	2																		
5	[Cross-hatched pattern]	SC	Loose, brown, clayey fine SAND gray/brown	[Black triangle]	3	2	6																	
					4	3																		
10	[Diagonal hatched pattern]	CL	Stiff, gray/green, sandy CLAY  green  firm  stiff	[Black triangle]	5	3	9																	
						4																		
								6	3	11														
									5															
20				[Black triangle]	7	5	8																	
						4																		
25			End of Boring.	[Black triangle]	8	5	12																	
						6																		
30																								
35																								

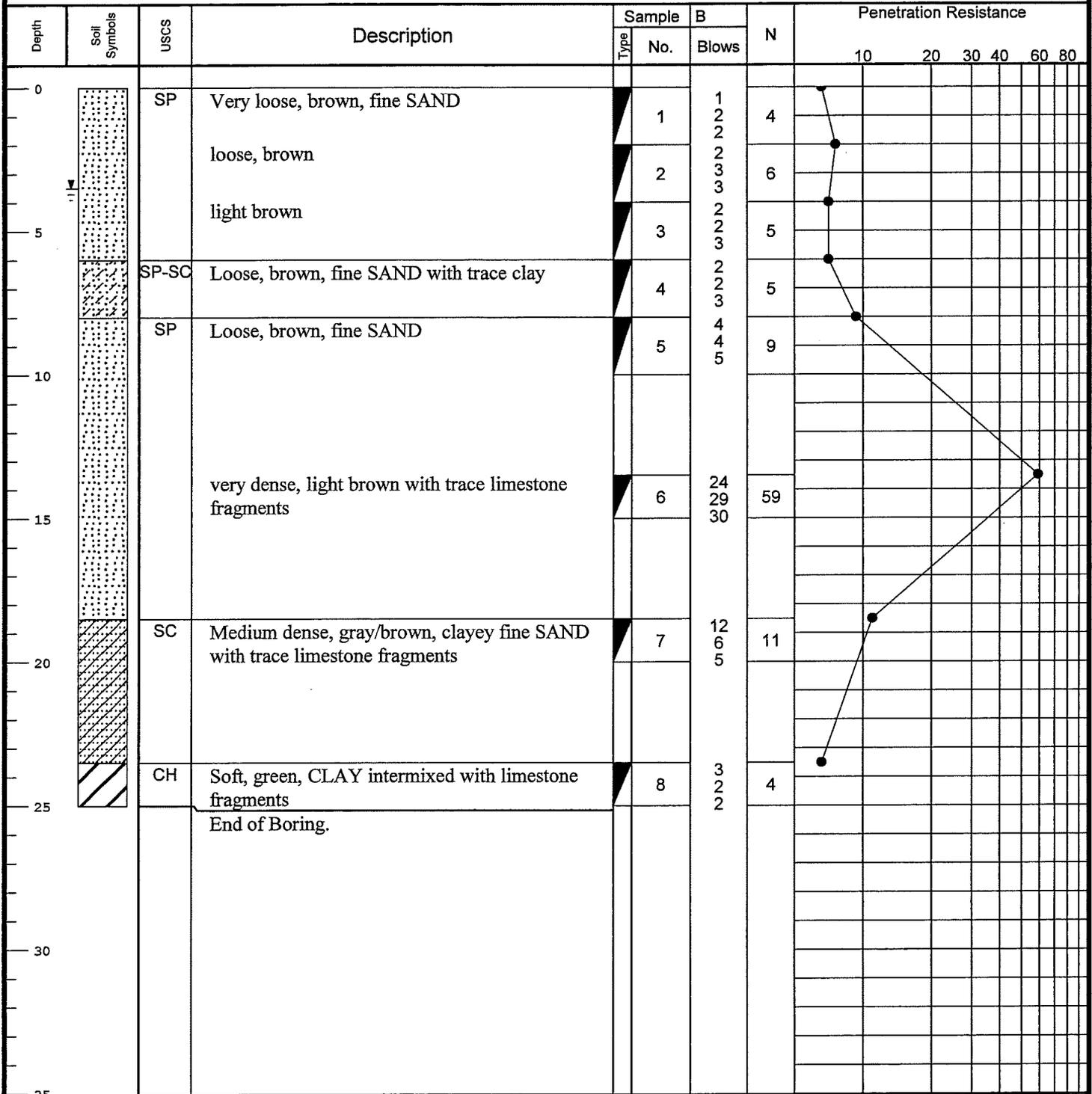
This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 118.6  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.5

**At Completion  $\nabla$  :** 3.5



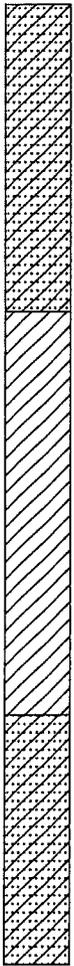
This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 114.4  
**Logged By:** JBR

**Depth to Water** > Initial  : N.E.

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance													
				Type	No.			10	20	30	40	60	80								
0		SC	Very loose, gray/orange/brown, clayey fine SAND loose, brown	▲	1	1	4														
					2	2															
					2	3															
					2	4															
5			CL	medium dense, green/brown	▲	3	4	7													
		4				3															
		4				4															
		4				5															
10		CL	Stiff, gray, sandy CLAY orange/green	▲	5	6	10														
					3	4															
15		SC	Medium dense, gray, clayey fine SAND	▲	6	6	11														
					4	5															
20		SC	Medium dense, gray, clayey fine SAND	▲	7	7	14														
					6	7															
25		SC	Medium dense, gray, clayey fine SAND	▲	8	5	13														
					6	7															
25			End of Boring.																		
30																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 116.1  
**Logged By:** JBR

**Depth to Water** > Initial  : N.E.

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																
				Type	No.			Blows	10	20	30	40	60	80										
0		SC	Loose, dark brown, clayey fine SAND  light gray with orange staining		1	1	5																	
					2	2																		
					3	3																		
					4	3																		
5		CL	Firm, green, sandy CLAY  stiff, orange/green		5	2	6																	
					6	3																		
					7	4																		
					8	5																		
10																								
15																								
20			firm with trace limestone fragments		6	4	11																	
					7	5																		
25			End of Boring.		7	3	7																	
					8	4																		
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 118.3  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.5

**At Completion  $\nabla$  :** 3.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0		SP	Loose, gray/brown, fine SAND	1	1	5																	
1																							
2			brown	2	3	8																	
3																							
4			gray/brown	3	4	8																	
5																							
6			SC	Loose, gray/brown, clayey fine SAND to fine SAND (SP-SC) with trace clay	4	3	9																
7																							
8		5		5	4	9																	
9																							
10		SC	Medium dense, brown, clayey fine SAND	6	4	11																	
11																							
12																							
13		CL	Stiff, gray/brown, sandy CLAY	7	5	12																	
14																							
15		5		7	6	12																	
16																							
17		SC	Medium dense, gray/brown, clayey fine SAND	8	6	12																	
18																							
19		7		5	7	12																	
20																							
21		5		5	6	12																	
22																							
23		5	End of Boring.		6	12																	
24																							
25		5			7	12																	
26																							
27		5			7	12																	
28																							
29		5			7	12																	
30																							
31		5			7	12																	
32																							
33		5			7	12																	
34																							
35		5			7	12																	
36																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 4

**Elevation:** 118.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : 4

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance															
				Type	No.			10	20	30	40	60	80										
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND	[Diagonal lines]	1	1	4																
					2	2																	
	[Cross-hatched pattern]	SC	Medium dense, gray/brown, clayey fine SAND	[Diagonal lines]	3	3	9																
					4	4																	
5					5	5																	
					6	6																	
	[Diagonal lines]	CL	Stiff, brown, sandy CLAY	[Diagonal lines]	7	7	14																
					8	8																	
10					9	9																	
	[Dotted pattern]	SP-SC	Medium dense, gray/brown, fine SAND with trace clay	[Diagonal lines]	10	10	10																
					11	11																	
15	[Cross-hatched pattern]	SC	Medium dense, brown, clayey fine SAND	[Diagonal lines]	12	12	13																
					13	13																	
20	[Cross-hatched pattern]	SC	Medium dense, brown, clayey fine SAND	[Diagonal lines]	14	14	14																
					15	15																	
25			End of Boring.		16	16	16																
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 119.0  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 4.5

**At Completion  $\nabla$  :** 4.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance						
				Type	No.			10	20	30	40	60	80	
0	[Dotted pattern]	SP	Loose, brown, fine SAND orange/brown	[Black triangle]	1	2 3 4	7	[Graph line]	[Graph grid]					
2					3 3 4									
5	[Diagonal lines]	SC	Loose, red/light brown, clayey fine SAND with red/orange staining medium dense	[Black triangle]	3	3 3 3	6	[Graph line]	[Graph grid]					
4					4 5 6									
10	[Diagonal lines]	CL	Hard, gray, sandy CLAY intermixed with Limestone	[Black triangle]	5	50 50 50	100	[Graph line]	[Graph grid]					
15					7 8 10									
20	[Diagonal lines]	SC	Medium dense, light green, clayey fine SAND	[Black triangle]	6	10 11 11	22	[Graph line]	[Graph grid]					
25					8 9 7									
25		CL	Very stiff, light green, sandy CLAY	[Black triangle]	8	8 9	16	[Graph line]	[Graph grid]					
25			End of Boring.			7								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 3.5

**Elevation:** 119.3  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance										
				Type	No.			Blows	10	20	30	40	60	80				
0	[Dotted pattern]	SP	Loose, light brown, fine SAND  brown	[Diagonal hatching]	1	3	7											
						4												
						3												
					2	4	9											
						5												
5	[Cross-hatched pattern]	SC	Loose, brown, clayey fine SAND	[Diagonal hatching]	3	4	7											
						3												
					4	2	7											
						3												
	[Diagonal hatching]	CL	Stiff, light gray, sandy CLAY    orange/brown	[Diagonal hatching]	5	3	9											
						4												
						4												
						5												
						5												
10																		
					6	4	11											
						5												
						6												
15																		
					7	3	11											
						5												
						6												
20																		
					8	6	15											
						7												
						8												
25			End of Boring.			8												
30																		
35																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 119.6  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.75

**At Completion**  $\nabla$  : 3.75

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance																			
				Type	No.			10	20	30	40	60	80														
0	[Soil Symbols: SP (0-10ft), SC (10-25ft)]	SP	Loose, gray, fine SAND	▲	1	2	7																				
3																											
4				light brown	▲	2	3	5																			
5							2																				
5			medium dense	▲	3	3	9																				
6						4																					
7				4	▲	4	4	12																			
8							6																				
10		SC	Medium dense, gray, clayey fine SAND	▲	5	3	11																				
11						5																					
15						6		▲	6	6	15																
16										7																	
20						to sandy CLAY (CL) with limestone fragments		▲	7	13	14																
21										8																	
25						gray		▲	8	5	13																
26										7																	
25		End of Boring.																									

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 122.6  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : 4

**At Completion**  $\nabla$  : 4

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance							
				Type	No.			10	20	30	40	60	80		
0	[Dotted pattern]	SP	Loose, brown, fine SAND  very loose  very loose  loose, dark brown	[Black triangle]	1	2 3 4	7								
					2	4 5 3	8								
5					3	2 2 2	4								
					4	1 0 1	1								
					5	1 2 3	5								
10	[Diagonal lines]	SC	Medium dense, light gray, clayey fine SAND	[Black triangle]	6	5 6 7	13								
15															
20					7	5 7 7	14								
25	[Diagonal lines]	CL	Stiff, light gray, sandy CLAY	[Black triangle]	8	4 5 5	10								
			End of Boring.												
30															
35															

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 117.1  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.25

**At Completion  $\nabla$  :** 3.25

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance												
				Type	No.			Blows	10	20	30	40	60	80						
0	[Dotted pattern]	SP	Loose, brown, fine SAND light brown	[Black triangle]	1	2 3 3	6													
					2	3 4 5		9												
5		SP-SC	Loose, brown, fine SAND with trace clay	[Black triangle]	3	3 2	5													
					4	2 0 1		1												
						5	3 4 4	8												
10	[Diagonal hatching]	CL	Firm, gray/green, sandy CLAY stiff	[Black triangle]	6	4 3 3	6													
					7	5 7 7		14												
20			firm		8	4 3 5	8													
25			End of Boring.																	
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 119.2  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.5

**At Completion  $\nabla$  :** 3.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance											
				Type	No.			Blows	10	20	30	40	60	80					
0	SP	SP	Loose, dark brown, fine SAND	▲	1	2	6												
			3																
			4																
	SP	SP	medium dense, light brown	▲	2	5	11												
			6																
5	SP	SP	loose	▲	3	3	7												
			4																
	SC	SC	Loose, brown, clayey fine SAND	▲	4	2	6												
			3																
			4																
	SC	SC	Medium dense	▲	5	4	12												
			6																
10	CL	CL	Very stiff, gray/green, sandy CLAY	▲	6	7	17												
			8																
			9																
	CL	CL	firm with trace limestone	▲	7	4	6												
			3																
20	CL	CL	soft	▲	8	2	3												
			1																
25	End of Boring.					2													
						1													
						2													
30																			
35																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 118.9  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 4.5

**At Completion  $\nabla$  :** 4.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance														
				Type	No.			10	20	30	40	60	80									
0	[Diagonal Hatching]	SC	Very loose, gray/brown, clayey fine SAND with orange staining loose	[Black Triangle]	1	2	3															
					2	1																
	[Wavy Hatching]	OL	Loose, black, organic SILT/CLAY	[Black Triangle]	3	2	7															
					4	3																
5	[Diagonal Hatching]	CL	Very stiff, gray, sandy CLAY with root hairs stiff	[Black Triangle]	4	7	17															
					5	8																
					6	9																
	[Diagonal Hatching]	SC	Medium dense, brown/gray, clayey fine SAND	[Black Triangle]	6	7	18															
					7	8																
	[Diagonal Hatching]	CL	Very stiff, gray/green, sandy CLAY stiff	[Black Triangle]	7	5	17															
					8	8																
25			End of Boring.		8	5	11															
						6																
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 4.5

**Elevation:** 119.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 4.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0		SC	Very loose, gray/brown, fine SAND clayey fine SAND	1	3	4														
		OL	Firm, black, organic sandy SILT with heavy organic staining	2	2	5														
		SP-SM	Loose, dark brown, fine SAND with trace silt	3	2	6														
		SC	Loose, orange/brown, clayey fine SAND	4	3	8														
				5	3	7														
				orange/gray/brown	6	4	9													
				medium dense, gray/brown	7	4	14													
			SP-SC	medium dense, light brown, fine SAND with trace clay	8	5	16													
			End of Boring.		7															
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 121.5  
**Logged By:** JBR

**Depth to Water** Initial  $\nabla$  : 3.5

**At Completion**  $\nabla$  : 3.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Soil Symbols: Dotted pattern for SP, Diagonal lines for SC, Diagonal lines for CL, Dotted pattern for SC]	SP	Loose, brown, fine SAND  very loose, dark brown  medium dense, light brown  brown	[Type: Triangle]	1	1	5													
2					2															
3					2															
4					2															
5		SC	Medium dense, gray/green, clayey fine SAND	[Type: Triangle]	3	4	11													
6					5															
7					6															
8					6															
10	CL	Stiff, gray/green, sandy CLAY to clayey fine SAND (SC)  with trace limestone	[Type: Triangle]	5	5	13														
11				6																
12				7																
13				6																
15	SC	Loose, green, clayey fine SAND	[Type: Triangle]	6	6	14														
16				7																
17				7																
20	CL	Stiff, gray/green, sandy CLAY to clayey fine SAND (SC)  with trace limestone	[Type: Triangle]	7	3	9														
21				4																
25	5																			
25	SC	Loose, green, clayey fine SAND	[Type: Triangle]	8	3	7														
26	3																			
27	4																			
25		End of Boring.																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 6.25

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  $\nabla$  : 6.25

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance																	
				Type	No.		B Blows	10	20	30	40	60	80											
0	[Dotted pattern]	SP	Loose, gray, fine SAND  light brown	[Black triangle]	1	2																		
						2	5																	
						3																		
					2	3	8																	
					4	4																		
5	[Diagonal hatching]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	3	4	10																	
						5																		
						5																		
						5																		
						5																		
						5																		
						5																		
					4	11																		
					5	4																		
					5	6	13																	
					6	7																		
10					6	5																		
					6	4																		
					6	7																		
15					6	5																		
					6	4																		
					6	7																		
20	[Dotted pattern]	SP-SC	Medium dense, light green, fine SAND with trace clay	[Black triangle]	7	7	16																	
						8																		
					8	8																		
					8	6																		
					8	7																		
25			End of Boring.			6																		
						6																		
						6																		
30						6																		
						6																		
						6																		
35						6																		

offset approx. 15 feet west.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 4.5

**Elevation:** 124.0  
**Logged By:** JBR

**At Completion**  $\nabla$  : 4.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0		SP	Loose, gray, fine SAND  very loose, dark brown  light brown  loose  brown		1	2 3 4	7																
					2	2 2 3	5																
5					3	2 1 2	3																
					4	2 1 1	2																
					5	1 2 2	4																
10																							
15																							
20		SC	Loose, brown, clayey fine SAND		8	3 3 5	8																
25																							
			End of Boring.																				
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** Offset  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 5.25

**At Completion  $\nabla$  :** 5.25

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance												
				Type	No.			Blows	10	20	30	40	60	80						
0	[Dotted pattern]	SP	Loose, gray/brown, fine SAND	[Black triangle]	1	2 3	7													
		brown	2		3 4															
	[Diagonal lines]	SC	Loose, gray, clayey fine SAND	[Black triangle]	3	4 3	5													
5			CL		Very loose, gray, sandy CLAY	4		2 1	2											
	[Dotted pattern]	SP	Loose, brown, fine SAND	[Black triangle]	5	3 4	9													
10								5												
	[Diagonal lines]	SC	Medium dense, gray/brown, clayey fine SAND	[Black triangle]	6	4 5	11													
15			brown		7	6 6		13												
	[Dotted pattern]	SP-SC	Medium dense, brown, fine SAND with trace clay	[Black triangle]	8	5 6	11													
25			End of Boring.					5												
30																				
35																				

Offset approx. 15 feet west.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 124.4  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 6.5

**At Completion  $\nabla$  :** 6.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																
				Type	No.			Blows	10	20	30	40	60	80										
0	[Dotted pattern]	SP	Loose, gray, fine SAND  medium dense, light brown	[Black triangle]	1	2 3 4	7																	
					2	3 5 6																		
5	[Diagonal lines]	SC	Medium dense, gray/brown, clayey fine SAND to fine SAND with trace clay (SP-SC)  gray/brown	[Black triangle]	3	14 16 8	24																	
					4	7 8 10																		
					5	6 7 7	14																	
15			gray	[Black triangle]	6	7 8 9	17																	
20	[Diagonal lines]	CL	Very stiff, gray, sandy CLAY with trace limestone fragments	[Black triangle]	7	7 10 9	19																	
25			End of Boring.	[Black triangle]	8	9 10 11	21																	
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 122.1  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																
				Type	No.			Blows	10	20	30	40	60	80										
0	[Dotted pattern]	SP	Very loose, gray, fine SAND	▲	1	1	4																	
					2	2																		
			medium dense, light brown	▲	2	3	11																	
					3	4																		
5	[Dotted pattern]	SP	light gray/brown	▲	3	7	21																	
					4	8																		
					4	9		16																
					5	5			11															
10	[Diagonal hatching]	SC	Medium dense, gray, clayey fine SAND	▲	5	5	11																	
					6	6																		
			to sandy CLAY (CL)	▲	6	5	12																	
					7	6																		
15	[Diagonal hatching]	SC	loose, light gray/green	▲	7	4	8																	
					8	3																		
					8	4		9																
					8	5																		
25			End of Boring.																					
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 7.25

**Elevation:** 119.3  
**Logged By:** JBR

**At Completion  $\nabla$  :** 7.25

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance													
				Type	No.			10	20	30	40	60	80								
0	[Symbol]	SP-SM	Loose, dark brown, fine SAND with trace silt	▲	1	4 4 5	9														
		SP	Medium dense, dark brown, fine SAND	▲	2	6 7 8	15														
5	[Symbol]	SC	Medium dense, brown, clayey fine SAND	▲	3	7 9 10	19														
					4	6 7 8	15														
					5	4 6 7	13														
10	[Symbol]	CL	Stiff, orange/light green, sandy CLAY	▲	6	5 6 7	13														
					7	4 6 5	11														
20	[Symbol]		light gray/brown	▲	8	3 5 6	11														
25						End of Boring.															
30																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : 3

**Elevation:** 118.8  
**Logged By:** JBR

At Completion  $\nabla$  : 3

Depth	Soil Symbols	USCS	Description	Sample		B		N	Penetration Resistance												
				Type	No.	Blows			10	20	30	40	60	80							
0		SP	Very loose, gray, fine SAND with trace rootlets	1	1	1	3														
		SP-SM	Loose, dark brown, fine SAND with trace silt	2	2	3	9														
		SC	Medium dense, brown, clayey fine SAND gray/brown	3	3	5	5	11													
						6	6	17													
						7	7	24													
				5	10	12															
10																					
15		CL	Very stiff, gray/green, sandy CLAY with trace limestone	6	7	8	16														
			stiff	7	6	5	13														
								8	8	16											
20			very stiff	8	9	8															
25			End of Boring.																		
30																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water:** Initial  $\nabla$  : 5

**Elevation:** 117.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Dotted pattern]	SP	Loose, dark brown, fine SAND  brown	[Black triangle]	1	1	5													
					2	3														
					3	4														
5	[Diagonal hatching]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	4	3	10													
					5	4														
					6	6														
					7	5														
					8	6														
10	[Diagonal hatching]	CL	Stiff, orange/gray, sandy CLAY	[Black triangle]	6	4	11													
					7	5														
					8	6														
15	[Diagonal hatching]	CL	Stiff, orange/gray, sandy CLAY	[Black triangle]	7	5	11													
					8	6														
20	[Diagonal hatching]	CL	Stiff, orange/gray, sandy CLAY	[Black triangle]	8	4	12													
					9	6														
25			End of Boring.																	
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 3.25

**Elevation:** 117.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3.25

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance												
				Type	No.			Blows	10	20	30	40	60	80						
0		SP	Very loose, gray, fine SAND with trace rootlets		1	1														
						1	3													
						2	3													
			SP-SM	Loose, dark brown, fine SAND with trace silt		2	4	8												
						3	4													
5			SP	Loose, brown, fine SAND		3	4	9												
				medium dense		4	5	11												
						4	5													
					5	6	14													
					5	6														
10		CL	Stiff, dark gray, sandy CLAY		5	7	14													
			gray/green		6	8	15													
15					6	8														
			light green with trace limestone		7	7	12													
20					7	7														
					8	5	10													
25			End of Boring.		8	5														
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 5

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance															
				Type	No.		B	Blows	10	20	30	40	60	80								
0		SP	Loose, gray, fine SAND light brown medium dense with minor orange staining	▲	1	1	5															
5			CL	Stiff, gray/green, sandy CLAY  with trace limestone  light green/gray	▲	2	3	9														
10					3	6	13															
15					5	6	13															
20					4	5	12															
25			End of Boring.																			
30																						
35																						

Offset approx. 15 feet west.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 113.5  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 2.25

**At Completion**  $\nabla$  : 2.25

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance									
				Type	No.			Blows	10	20	30	40	60	80			
0		SP	Very loose, brown, fine SAND  loose		1	1	3										
					2	2		5									
					3	3		9									
					4	4		13									
		5	5	14													
5		SC	Medium dense, brown, clayey fine SAND  medium dense		6	6	11										
					7	7	13										
					8	8	13										
	5				5	13											
25			End of Boring.														
30																	
35																	

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 112.4  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : 2.75

**At Completion**  $\nabla$  : 2.75

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance					
				Type	No.			10	20	30	40	60	80
0		SP	Loose, brown, fine SAND	1	1	5	5						
1													
2		light brown	2	2	9	9							
3													
4		medium dense	3	3	6	6							
5													
6		Stiff, green, sandy CLAY	4	4	11	11							
7													
8	5	5	5	11	11								
9													
10	SC	Medium dense, green, clayey fine SAND	6	6	12	12							
11													
12	SP-SC	Medium dense, orange/brown, fine SAND with trace clay	7	7	11	11							
13													
14	loose, gray	8	8	8	8	8							
15													
16	End of Boring.												
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 111.9  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 2.5

**At Completion**  $\nabla$  : 2.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance															
				Type	No.			10	20	30	40	60	80										
0	[Dotted pattern]	SP	Very loose, brown, fine SAND  loose  light brown	[Diagonal hatching]	1	1	3																
					2	2	6																
					3	2	7																
					4	4	10																
	[Diagonal hatching]	CL	Stiff, green, sandy CLAY	[Diagonal hatching]	5	3	9																
					4	4	10																
	[Dotted pattern]	SP-SC	Loose, gray/light brown, fine SAND with trace clay	[Diagonal hatching]	6	4	10																
					5	5	9																
	[Dotted pattern]	SP-SC	Loose, gray/light brown, fine SAND with trace clay	[Diagonal hatching]	7	6	9																
					4	4	8																
25			End of Boring.																				
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 111.6  
**Logged By:** JBR

**Depth to Water** Initial : 2

**At Completion** : 2

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance											
				Type	No.			10	20	30	40	60	80						
0		SP	Very loose, light brown, fine SAND with trace roots loose, brown	▲	1	1	3												
					2	4													
5		SC	Medium dense, gray, clayey fine SAND % of fines passing Sieve N. 200: 43%	▲	3	4	11												
					4	5													
		CL	Stiff, gray, sandy CLAY	▲	4	5	12												
					5	6													
10		CL	gray/green	▲	6	6	12												
					7	5													
15		CL	orange/gray/green	▲	7	5	13												
					8	7													
20		CL	soft	▲	8	3	4												
						2													
25			End of Boring.																
30																			
35																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 1.5

**Elevation:** 111.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : 1.5

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance						
				Type	No.		B	Blows	10	20	30	40	60
0	SP	SP	Loose, gray, fine SAND very loose, brown	Type	1	B	2	N	[Penetration Resistance Grid]				
2					2		5						
3	CL	CL	Firm, orange/brown/gray, sandy CLAY with root hairs	Type	2	B	1	N	[Penetration Resistance Grid]				
4					0		1						
5	SC	SC	Loose, gray, clayey fine SAND medium dense	Type	3	B	3	N	[Penetration Resistance Grid]				
4					4		8						
10	CL	CL	Firm, green, sandy CLAY	Type	4	B	3	N	[Penetration Resistance Grid]				
5					5		8						
15	CL	CL	Firm, green, sandy CLAY	Type	5	B	4	N	[Penetration Resistance Grid]				
4					5		11						
20	CL	CL	soft	Type	6	B	3	N	[Penetration Resistance Grid]				
4					4		8						
25	CL	CL	soft	Type	7	B	2	N	[Penetration Resistance Grid]				
3					3		5						
25	CL	CL	soft	Type	8	B	2	N	[Penetration Resistance Grid]				
2					2		4						
25			End of Boring.				2		[Penetration Resistance Grid]				
							2		[Penetration Resistance Grid]				
							2		[Penetration Resistance Grid]				
30									[Penetration Resistance Grid]				
35									[Penetration Resistance Grid]				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** Offset  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 1.5

**At Completion**  $\nabla$  : 1.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance													
				Type	No.			Blows	10	20	30	40	60	80							
0		SP	Loose, dark brown, fine SAND		1	2 2 3	5														
		SC	Very loose, gray/brown, clayey fine SAND with root hairs		2	1 2 2	4														
		CL	Firm, orange/brown/gray, sandy CLAY with root hairs		3	2 3 4	7														
		SC	Loose, gray, clayey fine SAND  medium dense		4	3 4 5	9														
					5	4 6 7	13														
					6	3 4 5	9														
		CL	Stiff, green, sandy CLAY  firm		7	4 5 3	8														
					8	2 3 2	5														
25				End of Boring.																	
30																					
35																					

Offset approx. 10 feet west.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 111.6  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 2.25

**At Completion**  $\nabla$  : 2.25

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance																
				Type	No.			10	20	30	40	60	80											
0	[Dotted pattern]	SP	Loose, light brown, fine SAND  brown	[Black triangle]	1	1	5																	
					2	2																		
					3	3																		
5	[Diagonal hatching]	CL	Stiff, green, sandy CLAY to clayey fine SAND (SC)  very stiff	[Black triangle]	4	2	7																	
					3	3																		
					4	4																		
					5	5																		
					6	6																		
10	[Diagonal hatching]	SC	Medium dense, gray, clayey fine SAND	[Black triangle]	7	4	11																	
					6	5																		
					8	9																		
15	[Diagonal hatching]	CL	Stiff, green, sandy CLAY  firm	[Black triangle]	7	4	10																	
					5	5																		
					8	5																		
20	[Diagonal hatching]	CL	Stiff, green, sandy CLAY  firm	[Black triangle]	7	4	10																	
					5	5																		
25			End of Boring.		8	3	7																	
					4	4																		
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2

**Elevation:** 112.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance											
				Type	No.		B Blows	10	20	30	40	60	80					
0	SP	SP	Very loose, light gray, fine SAND	▲	1	4												
			loose, dark brown				2	6										
			light brown				3	8										
5	SC	SC	Medium dense, gray, clayey fine SAND	▲	4	15												
								5	19									
10	SC	SC	Medium dense, gray, clayey fine SAND	▲	5	19												
								6	21									
15	SP-SC	SP-SC	Medium dense, green, fine SAND with trace clay	▲	7	11												
								8	8									
20	SP-SC	SP-SC	Medium dense, green, fine SAND with trace clay	▲	7	11												
								8	8									
25	SP-SC	SP-SC	loose	▲	8	8												
								8	8									
25			End of Boring.															
30																		
35																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 1.25

**Elevation:** 110.0  
**Logged By:** JBR

**At Completion**  $\nabla$  : 1.25

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance								
				Type	No.			10	20	30	40	60	80			
0	[Symbol]	SP	Loose, gray, fine SAND	▲	1	2	7									
			dark brown		2	3		4								
	[Symbol]	SP-SM	Loose, dark brown, fine SAND with trace silt	▲	3	3	8									
					4	4		4								
5	[Symbol]	SC	Loose, brown, clayey fine SAND	▲	4	3	9									
			medium dense, gray/brown with trace limestone fragments		5	4		5								
					5	12		14	24							
10	[Symbol]	SC	brown	▲	6	7	12									
								6	6							
20	[Symbol]	SP-SC	Medium dense, green, fine SAND with trace clay	▲	7	5	11									
					8	5		6								
25			loose	▲	8	4	7									
				▲		3										
25			End of Boring.			4										

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 2.5

**Elevation:** 110.9  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance														
				Type	No.			Blows	10	20	30	40	60	80								
0	[Soil Symbol: Fine Sand]	SP-SM	Very loose, dark brown, fine SAND with trace silt	1	1	1																
1					2	2	4															
2						3	3															
3						4	4	7														
4	[Soil Symbol: Fine Sand]	SP	Loose, light brown, fine SAND  medium dense  very loose	3	5	5	12															
5							6	6														
6								6	6													
7								3	3	4												
8	[Soil Symbol: Clayey Sand]	SC	Loose, orange/brown, clayey fine SAND	4	2	2	4															
9							2	2														
10								4	4	9												
11								5	5													
12	[Soil Symbol: Clay]	CL	Firm, green, sandy CLAY			2																
13							2	2	5													
14								3	3													
15																						
16	[Soil Symbol: Clayey Sand]	SC	Loose, light green, clayey fine SAND			3																
17							4	4	9													
18								5	5													
19																						
20	[Soil Symbol: Clayey Sand]	SC	Loose, light green, clayey fine SAND			4																
21							5	5	10													
22																						
23																						
24	[Soil Symbol: Clayey Sand]	SC	Loose, light green, clayey fine SAND			4																
25							5	5														
26																						
27																						
28	[Soil Symbol: Clayey Sand]	SC	Loose, light green, clayey fine SAND			4																
29							5	5														
30																						
31																						
32	[Soil Symbol: Clayey Sand]	SC	Loose, light green, clayey fine SAND			4																
33							5	5														
34																						
35																						
36			End of Boring.																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** Offset  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.25

**At Completion**  $\nabla$  : 3.25

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance															
				Type	No.		B	Blows	10	20	30	40	60	80								
0	[Soil Symbols: SP (0-8.5 ft), SC (8.5-25 ft)]	SP	Loose, gray, fine SAND with trace roots	[Sample Type: SP]	1	1	5															
			2		2																	
			3		3																	
			4		4																	
		5	SC	dark orangish brown	[Sample Type: SC]	5	3	8														
		6		4																		
		7		5																		
		8		6																		
	9		orangish brown		7	4	10															
	10		Medium dense, gray, clayey fine SAND		8	5																
	11				9	6																
	12				10	7																
	13		loose, orange/light brown		11	4	13															
	14				12	5																
	15				13	6																
	16				14	7																
	17		medium dense, gray		15	4	10															
	18				16	5																
	19				17	6																
	20				18	7																
	21		loose, light gray/brown		19	3	11															
	22				20	6																
	23				21	5																
	24				22	4																
	25		End of Boring.		23	4	10															
	26				24	6																
	27				25	4																
	28				26	4																

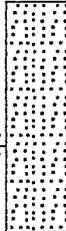
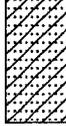
Offset approx. 30 feet.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  : 3.75

**Elevation:** 110.2  
**Logged By:** JBR

**At Completion**  : 3.75

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance																
				Type	No.			10	20	30	40	60	80											
0		SP	Very loose, gray, fine SAND with trace rootlets	Type 1	1	1	2																	
			loose, brown		2	2		7																
			medium dense		3	4		12																
5		SC	Medium dense, brown, clayey fine SAND	Type 4	4	5	7																	
					4	6	14																	
		CL	Very stiff, brown, sandy CLAY	Type 5	5	8	19																	
10						9																		
						10																		
		SC	Medium dense, light brown, clayey fine SAND	Type 7	6	7	23																	
15						10																		
						13																		
20				Type 7	7	15	25																	
					11	14																		
				Type 8	8	7	23																	
25					11	12																		
			End of Boring.																					
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : 3.5

**Elevation:** 110.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3.5

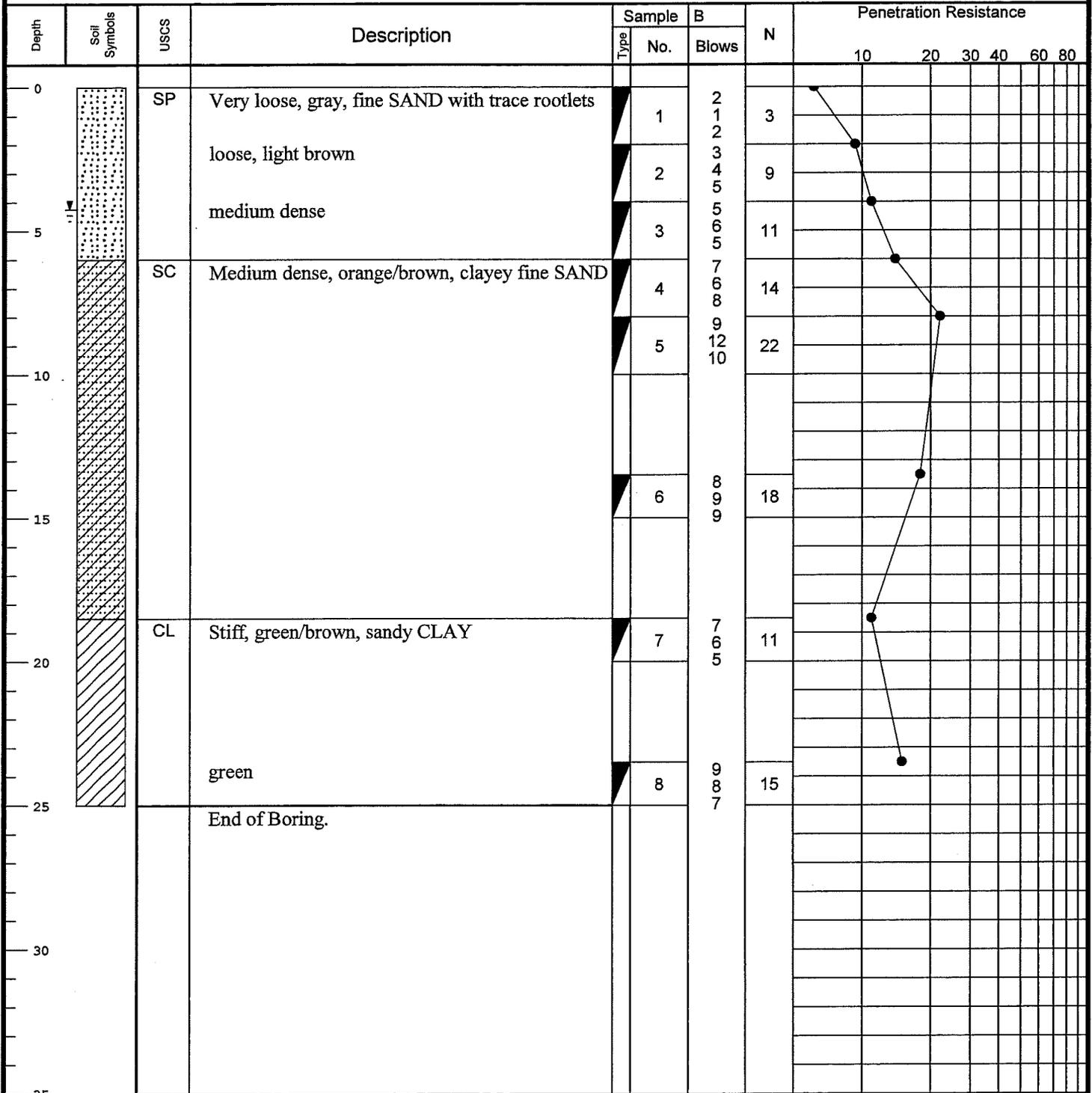
Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																
				Type	No.			Blows	10	20	30	40	60	80										
0	[Dotted pattern]	SP	Loose, dark gray, fine SAND  medium dense, brown	[Black triangle]	1	2	6																	
					2	3																		
					3	4																		
					4	5																		
5	[Diagonal hatching]	SC	Medium dense, brown, clayey fine SAND  orangish brown	[Black triangle]	5	5	11																	
					6	6																		
					7	7																		
					8	8																		
					9	9																		
					8	8																		
					9	9																		
10	[Diagonal hatching]	CL	Very stiff, green, sandy CLAY with orange staining	[Black triangle]	6	8	15																	
					7	7																		
					8	8																		
15	[Diagonal hatching]	CL	Very stiff, green, sandy CLAY with orange staining	[Black triangle]	7	7	13																	
					6	6																		
20	[Diagonal hatching]	CL	Very stiff, green, sandy CLAY with orange staining	[Black triangle]	8	5	20																	
					8	8																		
25	[Diagonal hatching]	CL	Very stiff, green, sandy CLAY with orange staining	[Black triangle]	8	5	20																	
			End of Boring.			8																		
30						12																		
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 4.25

**Elevation:** 112.1  
**Logged By:** JBR

**At Completion**  $\nabla$  : 4.25



This information pertains only to this boring and should not be interpreted as being indicative of the site.

Project: Epperson Ranch  
Client: Lennar Homes, Inc.  
Location: Pasco County, Florida  
Driller: AmeriDrill  
Drill Rig: Gemco Buggy  
Depth to Water > Initial  $\nabla$  : 5

Elevation: 110.5  
Logged By: JBR

At Completion  $\nabla$  : 5

Depth	Soil Symbols	USCS	Description	Type	Sample		N	Penetration Resistance									
					No.	B		10	20	30	40	60	80				
0	[Dotted pattern]	SP	Very loose, light brown, fine SAND	▲	1	2	4										
			loose, brown		2	2											
			medium dense		3	3											
5		[Diagonal hatching]	SC	Medium dense, brown, clayey fine SAND	▲	4	8	19									
				gray		5	10										
10			[Diagonal hatching]	CL	green	▲	6	5	18								
15								9									
20								10									
25			Very stiff, green, sandy CLAY	▲	8	11	25										
30			End of Boring.			14											
35																	

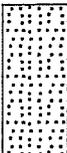
This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  : 6.5

**Elevation:** 113.3  
**Logged By:** JBR

**At Completion**  : 6.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance										
				Type	No.			10	20	30	40	60	80					
0		SP	Loose, light brown, fine SAND with trace rootlets medium dense, brown	▲	1	2	7											
						2												
		SC	Medium dense, brown, clayey fine SAND	▲	2	5	14											
						7												
						8												
5						10												
						10												
		CL	Very stiff, light green, sandy CLAY	▲	3	12	28											
						15												
						13												
		CL	Very stiff, light green, sandy CLAY	▲	4	7	15											
						6												
						9												
10		CL	Very stiff, light green, sandy CLAY	▲	5	8	16											
						9												
15		CL	Very stiff, light green, sandy CLAY	▲	6	6	16											
						8												
20		CL	Very stiff, light green, sandy CLAY	▲	7	7	16											
						8												
25		CL	Very stiff, light green, sandy CLAY	▲	8	7	16											
						6												
25	End of Boring.					10												
30																		
35																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : 6.75

**Elevation:** 113.8  
**Logged By:** JBR

**At Completion**  $\nabla$  : 6.75

Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance								
				Type	No.			10	20	30	40	60	80			
0	[Dotted pattern]	SP	Loose, brown, fine SAND with trace rootlets	[Diagonal lines]	1	3	9									
			medium dense, light brown		2	4										
	[Diagonal lines]	CL	Firm, brown, sandy CLAY	[Diagonal lines]	3	5	12									
			stiff		4	6										
5					5	4										
					6	5										
					7	5										
					8	7										
					9	5										
					10	5										
10			green		6	7	13									
			stiff		7	7										
			very stiff		7	6	18									
					8	8										
20					7	10	21									
					8	8										
25			End of Boring.		8	12										
30																
35																

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy

**Elevation:** 112.0  
**Logged By:** JBR

**Depth to Water** Initial  $\nabla$  : 7

**At Completion**  $\nabla$  : 7

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance											
				Type	No.			10	20	30	40	60	80						
0		SP	Loose, brown, fine SAND with trace rootlets	1	4	9													
		SP-SC	Loose, brown, fine SAND with trace clay	2	5	10													
		SC	Medium dense, brown, clayey fine SAND	3	6	15													
		CL	Very stiff, light brown, sandy CLAY	4	8	17													
		SC	Medium dense, light brown, clayey fine SAND	5	5	13													
		SP-SC	Medium dense, brown, fine SAND with trace clay	6	7	11													
		CL	Stiff, orangish brown, sandy CLAY	7	6	9													
					8	6	18												
25			End of Boring.																

This information pertains only to this boring and should not be interpreted as being indicative of the site.

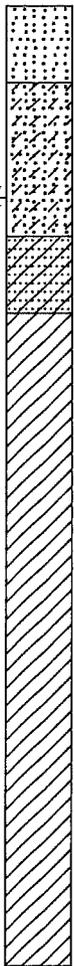
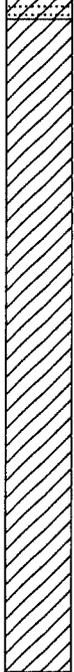
Figure

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy

**Elevation:** 110.4  
**Logged By:** JBR

**Depth to Water > Initial**  : 5

**At Completion**  : 5

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance														
								10	20	30	40	60	80									
0		SP	Loose, gray, fine SAND with trace rootlets		1	2 3 3	6															
		SP-SC	Loose, brown, fine SAND with trace clay medium dense		2	5 4 5	9															
5		SC	Medium dense, brown, clayey fine SAND		3	5 6 8	14															
		CL	Very stiff, light brown, sandy CLAY		4	7 9 8	17															
10		CL	Very stiff, light brown, sandy CLAY		5	6 9 8	17															
								stiff		6	7 7 8	15										
15																						
												7	6 5 9	14								
20																						
25					8	7 8 8	16															
			End of Boring.																			
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : 5.5

**Elevation:** 110.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance														
				Type	No.			10	20	30	40	60	80									
0	[Dotted pattern]	SP	Very loose, gray, fine SAND  dark brown  brown	[Black triangle]	1	1	3															
	[Cross-hatched pattern]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	2	2	5															
5																						
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY  green  stiff	[Black triangle]	3	4	10															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	4	5	14															
10	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	5	6	18															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	6	7	17															
15	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	7	8	17															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	9	13															
20	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	7	6	17															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	7	13															
25	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	7	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
30	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
35	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very stiff, brown, sandy CLAY	[Black triangle]	8	6	13															
	[Diagonal lines]	CL	Very																			

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 6

**Elevation:** 111.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : 6

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance														
				Type	No.			Blows	10	20	30	40	60	80								
0	[Dotted pattern]	SP	Very loose, gray, fine SAND  loose, dark brown	[Black triangle]	1	2 1	2															
					2	3 2 4		6														
5	[Diagonal lines]	SC	Loose, gray/brown/orange, clayey fine SAND  medium dense, brown	[Black triangle]	3	3 5	10															
					4	5 6		12														
					5	7 8 9 10		18														
15	[Diagonal lines]	CL	Stiff, orangish green, sandy CLAY  very stiff	[Black triangle]	6	7 6 7	13															
					7	9 11 8		19														
25	[Diagonal lines]		End of Boring.	[Black triangle]	8	7 12 6	18															
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 5.75

**Elevation:** 109.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5.75

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance							
				Type	No.			10	20	30	40	60	80		
0	[Dotted pattern]	SP	Loose, brown, fine SAND	[Black triangle]	1	2	6								
					2	3									
					3	4									
	[Dotted pattern]	medium dense		[Black triangle]	4	5	8								
					5	6									
					6	7									
5	[Diagonal lines]	SC	Medium dense, gray/brown, clayey fine SAND	[Black triangle]	7	8	12								
					8	9									
					9	10									
					10	11									
					11	12									
10	[Diagonal lines]	CL	Stiff, orangish green, sandy CLAY	[Black triangle]	13	13	13								
					14	14									
					15	15									
15	[Diagonal lines]	CL	Stiff, orangish green, sandy CLAY	[Black triangle]	16	8	15								
					17	8									
					18	7									
20	[Diagonal lines]	CL	Stiff, orangish green, sandy CLAY	[Black triangle]	19	7	11								
					20	6									
25	[Diagonal lines]	CL	Stiff, orangish green, sandy CLAY	[Black triangle]	21	6	10								
					22	5									
25			End of Boring.			5									

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 3

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3

Depth	Soil Symbols	USCS	Description	Sample		B		N	Penetration Resistance					
				Type	No.	Blows			10	20	30	40	60	80
0	[Soil Symbols: SP, SC, SP-SC]	SP	Loose, dark brown, fine SAND	[Symbol]	1	2	7	[Penetration Resistance Line]						
			brown			3								
			very loose, light brown			4								
5		SC	Loose, gray, clayey fine SAND	[Symbol]	2	2	9							
						medium dense			4					
			loose, light brown	[Symbol]	3	3	4							
									2					
									2					
10		Loose, light brown	[Symbol]	4	3	8								
					4									
		SP-SC	Loose, light brown, fine SAND with trace clay	[Symbol]	5	5	11							
						6								
						5								
15		Loose, light brown, fine SAND with trace clay	[Symbol]	6	4	8								
					3									
		End of Boring.	[Symbol]	8	5	5								
					2									
20		End of Boring.	[Symbol]	8	2	5								
					3									
		End of Boring.	[Symbol]	8	2	5								
					3									
25		End of Boring.	[Symbol]	8	2	5								
					3									
		End of Boring.	[Symbol]	8	2	5								
					3									
30		End of Boring.	[Symbol]	8	2	5								
					3									
35		End of Boring.	[Symbol]	8	2	5								
					3									

Offset approx. 15 feet south.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 113.0  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : 3.5

**At Completion**  $\nabla$  : 3.5

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance					
								10	20	30	40	60	80
0		SP	Loose, light brown, fine SAND		1	2	7						
			brown		2	3							
			medium dense		3	4							
5					4	5							
		SC	Medium dense, brown, clayey fine SAND with trace limestone		5	10	27						
					6	13							
			gray/brown to sandy CLAY (CL)		7	14							
15					8	6							
	SC	brown		7	7	15							
				8	8								
20					5	12							
					6								
25			End of Boring.		8	6	19						
					9								
					10	10							
30													
35													

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 5

**Elevation:** 114.3  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance											
				Type	No.			Blows	10	20	30	40	60	80					
0	[Dotted pattern]	SP	Loose, gray/brown, fine SAND with trace rootlets	[Black triangle]	1	1	5												
		brown	2		2	9													
5	[Dotted pattern]	SP-SC	Medium dense, gray/brown, fine SAND with trace clay	[Black triangle]	3	4	11												
			4		5	11													
	[Diagonal hatching]	SC	Medium dense, gray/brown, clayey fine SAND	[Black triangle]	4	6	13												
		loose	5		6	5													
			5		5	10													
		medium dense	6		3	11													
		5	6																
20	[Diagonal hatching]	CL	Stiff, brown, sandy CLAY	[Black triangle]	7	4	11												
			6		5														
25			End of Boring.		8	6	13												
					6	7													
						6													
30																			
35																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy

**Elevation:** 115.9  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : 3.25

**At Completion**  $\nabla$  : 3.25

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Symbol]	SP-SM	Loose, dark gray/brown, fine SAND with trace silt and rootlets brown	[Symbol]	1	2 3 4	7													
					2	3 4 3	7													
5	[Symbol]	SC	Loose, gray/brown, clayey fine SAND  Very dense, gray/brown, clayey fine SAND with limestone fragments	[Symbol]	3	3 4 5	9													
					4	4 38 19	57													
10	[Symbol]	SP	Medium dense, brown, fine SAND intermixed with limestone fragments	[Symbol]	5	10 12 13	25													
15	[Symbol]	CL	Stiff, light green, sandy CLAY with trace limestone fragments	[Symbol]	6	7 7 7	14													
20	[Symbol]			[Symbol]	7	6 6 7	13													
25	[Symbol]		End of Boring.	[Symbol]	8	5 4 8	12													
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 114.3  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : 1.25

**At Completion**  $\nabla$  : 1.25

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance									
				Type	No.			Blows	10	20	30	40	60	80			
0	[Dotted pattern]	SP	Very loose, dark brown, fine SAND  loose, brown	[Black triangle]	1	1	3										
					2	2											
5	[Diagonal lines]	SC	Medium dense, gray/brown, clayey fine SAND with orange staining  loose	[Black triangle]	3	5	13										
					4	4											
10	[Diagonal lines]	CL	Stiff, gray, sandy CLAY to clayey fine SAND (SC)	[Black triangle]	5	4	11										
						5											
15	[Diagonal lines]	SC	Loose, gray/green, clayey fine SAND with orange staining  medium dense	[Black triangle]	6	3	8										
						5											
20	[Diagonal lines]			[Black triangle]	7	3	12										
						5											
25	[Diagonal lines]		End of Boring.	[Black triangle]	8	4	11										
						5											
						6											
30																	
35																	

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 1.5

**Elevation:** 115.9  
**Logged By:** JBR

**At Completion**  $\nabla$  : 1.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance												
				Type	No.			Blows	10	20	30	40	60	80						
0	SP	SP	Very loose, dark brown, fine SAND with trace roots/rootlets loose, light brown	S	1	1														
					2	4														
	SC	SC	Medium dense, gray/brown, clayey fine SAND	S	2	2														
					3	7														
					4	16														
5	SC	SC	Medium dense, gray/brown, clayey fine SAND	S	5	3														
					4	7														
					5	19														
10	CL	CL	Stiff, gray/green, sandy CLAY	C	6	7														
					7	8														
					8	9														
15	SC	SC	Loose, gray/green, clayey fine SAND  medium dense	S	9	4														
					10	4														
					11	5														
20	SC	SC	Loose, gray/green, clayey fine SAND  medium dense	S	7	6														
					8	5														
25	SC	SC	Loose, gray/green, clayey fine SAND  medium dense	S	8	4														
					9	5														
25			End of Boring.			6														
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy

**Elevation:** 116.7  
**Logged By:** JBR

**Depth to Water** Initial  $\nabla$  : 3.25

**At Completion**  $\nabla$  : 3.25

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance													
				Type	No.			10	20	30	40	60	80								
0	[Dotted pattern]	SP	Loose, brown, fine SAND with trace rootlets	[Black triangle]	1	1	5														
			loose			2		4													
5	[Diagonal hatching]	SC	Loose, brown, clayey fine SAND	[Black triangle]	3	4	6														
			gray/brown			3															
			light brown			4															
						5															
			gray			6															
10	[Diagonal hatching]	CL	Stiff, light green, sandy CLAY	[Black triangle]	7	4	11														
						5															
						6															
20	[Diagonal hatching]	SC	Loose, light gray, clayey fine SAND	[Black triangle]	8	2	5														
						3															
25			End of Boring.			2															
30																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 3

**Elevation:** 116.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance														
				Type	No.			Blows	10	20	30	40	60	80								
0	SP	SP	Very loose, brown, fine SAND with trace rootlets	▲	1	1	3															
			loose, light brown		2	2		5														
			very loose		3	1		4														
5			loose		4	3		6														
	SC	SC	Loose, gray/brown, clayey fine SAND	▲	5	2	7															
			orange/brown		6	3		6														
					6	3																
	CL	CL	Firm, light green, sandy CLAY	▲	7	2	8															
					7	3																
	SC	SC	Loose, light gray, clayey fine SAND	▲	8	4	6															
			End of Boring.			3																
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : 3.25

**Elevation:** 116.1  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3.25

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance															
				Type	No.			10	20	30	40	60	80										
0	[Dotted pattern]	SP	Very loose, gray, fine SAND with trace rootlets	1	1	1	3																
			Loose, light brown	2	2			2	5														
5	[Diagonal hatching]	SC	Loose, light brown, clayey fine SAND	3	3	3	6																
			medium dense	4	4			5	12														
			loose	5	5			6	10														
10																							
15			medium dense, gray/green to sandy CLAY (CL)	6	6	5	13																
								6	7														
20				7	7	8	19																
								9	10														
25		CL	Firm, light green, sandy CLAY	8	8	4	8																
			End of Boring.					5	3														
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : 3.5

**Elevation:** 115.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND with trace rootlets loose, brown light brown	[Black triangle]	1	1	4													
					2	2														
					2	3														
						4	7													
						4														
						3														
5	[Diagonal hatching]	SC	Medium dense, gray/brown, clayey fine SAND	[Black triangle]	3	4	7													
					4	3														
					4	4														
					4	3														
					2	5														
						6	11													
						7														
						8														
10						7	15													
						8														
						5	11													
						6														
15	[Diagonal hatching]	CL	Stiff, light green, sandy CLAY	[Black triangle]	6	5	11													
						4	12													
						7														
20						4	13													
						7														
						4	13													
						6														
25			End of Boring.			7														
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 1.75

**Elevation:** 120.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : 1.75

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance							
				Type	No.			Blows	10	20	30	40	60	80	
0	[Dotted pattern]	SP	Loose, gray/brown, fine SAND  medium dense	[Black triangle]	1	3 4 5 7	9	[Graph line]							
5								2	8 10	18	[Graph line]				
											3	8 9 9	18	[Graph line]	
10	[Cross-hatched pattern]	SP-SC	Medium dense, gray/brown, fine SAND with trace clay	[Black triangle]	4	7 7 10	17	[Graph line]							
								5	6 7 8	15	[Graph line]				
											6	8 9 9	18	[Graph line]	
15	[Diagonal hatched pattern]	SC	Medium dense, gray, clayey fine SAND	[Black triangle]	7	6 7 7	14	[Graph line]							
								20	8	4 5 4	9	[Graph line]			
25	[Diagonal hatched pattern]	CL	Stiff, gray, sandy CLAY  green	[Black triangle]	8	4 5 4	9					[Graph line]			
								30	End of Boring.	[Graph line]					
35	[Graph line]														

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy

**Elevation:** 119.7  
**Logged By:** JBR

**Depth to Water > Initial**  $\nabla$  : 2

**At Completion**  $\nabla$  : 2

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance															
				Type	No.			10	20	30	40	60	80										
0	[Dotted pattern]	SP	Loose, gray/brown, fine SAND  medium dense	[Black triangle]	1	1	5																
					2	2																	
					3	3																	
5	[Cross-hatched pattern]	SP-SC	Medium dense, gray/brown, fine SAND with trace clay	[Black triangle]	4	6	12																
					5	5																	
10	[Dotted pattern]	SP	Medium dense, brown, fine SAND	[Black triangle]	5	5	13																
					6	6																	
15	[Diagonal hatched pattern]	CL	Stiff, gray, sandy CLAY  firm  gray/green	[Black triangle]	6	3	10																
					5	5																	
					7	4		8															
20	3	3																					
25			End of Boring.		8	3	6																
					3	3																	
30						3																	
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 3.5

**Elevation:** 123.0  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance											
				Type	No.			10	20	30	40	60	80						
0		SP	Very loose, brown, fine SAND with trace rootlets		1	2 3	4												
		SP-SC	Loose, brown, fine SAND with trace clay		2	2 3 4	7												
		SC	Medium dense, light brown, clayey fine SAND gray/orange/brown light gray		3	4 5 6	11												
5					4	5 6 6	12												
						5	5 7 7	14											
		CL	Stiff, light green, sandy CLAY to clayey fine SAND (SC) gray/green		6	6 7 8	15												
15						7	5 5 8	13											
		SC	Loose, light gray, clayey fine SAND		8	3 4 5	9												
25			End of Boring.																
30																			
35																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : 2.5

**Elevation:** 121.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : 2.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance														
				Type	No.			Blows	10	20	30	40	60	80								
0	[SP-SC Soil Symbol]	SP	Very loose, brown, fine SAND with trace rootlets		1	1																
						2	2	4														
	[SP-SC Soil Symbol]	SP-SC	Loose, brown, fine SAND with trace clay		2	4	9															
						3	3	9														
5	[CL Soil Symbol]	CL	Stiff, orange/brown, sandy CLAY  gray   very stiff, light green  firm		4	4	9															
							5	4	11													
								6	4	16												
								7	5	7												
								8	3	6												
25		SC	Loose, light gray, clayey fine SAND		8	3	6															
			End of Boring.			3																
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water > Initial**  $\nabla$  : 3.5

**Elevation:** 121.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 3.5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance										
				Type	No.			10	20	30	40	60	80					
0	[Dotted pattern]	SP	Loose, gray/brown, fine SAND	[Black triangle]	1	1	7											
					2	3												
	[Cross-hatched pattern]	SP-SC	Medium dense, dark brown, fine SAND with trace clay	[Black triangle]	3	6	14											
					4	7												
					5	7												
	[Cross-hatched pattern]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	4	7	15											
					5	8												
	[Cross-hatched pattern]	SP-SC	Medium dense, brown, fine SAND with trace clay	[Black triangle]	5	6	17											
					6	7												
	[Diagonal lines]	CL	Stiff, green, sandy CLAY to clayey fine SAND (SC) with trace limestone fragments	[Black triangle]	6	3	11											
					7	5												
	[Diagonal lines]	SC	Loose, light green, clayey fine SAND with trace limestone fragments	[Black triangle]	7	3	6											
					8	4												
	[Diagonal lines]			[Black triangle]	8	2	5											
						3												
			End of Boring.			2												

At 15 feet limestone layer (6" thick)

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 122.6  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.75

**At Completion  $\nabla$  :** 3.75

Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0		SP	Loose, gray, fine SAND	1	1	5														
		SC	Loose, light brown, clayey fine SAND with orange staining	2	2	5														
5			medium dense, orange/brown	3	3	9														
			light brown	4	5	13														
				5	4	13														
10				loose, brown/gray	6	5	10													
15					7	3	7													
20			CL	Firm, light green, sandy CLAY	8	3	5													
25			End of Boring.																	
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 125.1  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : 4

**At Completion**  $\nabla$  : 4

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Dotted pattern]	SP	Very loose, gray, fine SAND	[Black triangle]	1	3 2 1	3													
			loose, light brown		2	2 3 4		7												
5	[Dotted pattern]	SP-SC	Loose, light brown, fine SAND with trace clay	[Black triangle]	3	3 4 5	9													
					4	3 4 5		9												
10	[Diagonal lines]	SC	Medium dense, light gray/brown, clayey fine SAND	[Black triangle]	5	4 5 6	11													
					6	5 6 6		12												
15	[Diagonal lines]	CL	Firm, light green, sandy CLAY	[Black triangle]	7	5 6 7	13													
20					8	4 3 3		6												
25			End of Boring.																	
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** offset  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3

**At Completion**  $\nabla$  : 3

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance												
				Type	No.			Blows	10	20	30	40	60	80						
0		SP	Loose, light brown, fine SAND	▲	1	4 3 2	5													
		SP-SM	Very loose, light brown, fine SAND with trace silt loose	▲	2	1 2 2	4													
					▲	3	2 3 2	5												
5		SP	Very loose, light brown, fine SAND	▲	4	0 0 0	0													
		SC	Loose, light gray/brown, clayey fine SAND	▲	5	1 2 4	6													
10					▲	6	5 6 7	13												
15				medium dense	▲	7	6 6 8	14												
20				light brown	▲	8	9 10 10	20												
25			End of Boring.																	
30																				
35																				

Offset approx. 15 feet east.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  : 5

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  : 5

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance																
				Type	No.		B	Blows	10	20	30	40	60	80									
0		SP	Very loose, brown, fine SAND  loose, light brown  brown	A	1	1	4																
					2	2	4																
					3	3	6																
					4	3	8																
5		SP-SC	Loose, brown, fine SAND with trace clay	A	5	4	9																
					6	5	9																
					7	3	6																
					8	3	6																
10		SC	Medium dense, brown/gray, clayey fine SAND	A	9	4	13																
					10	6	13																
					11	7	13																
					12	7	13																
15		SC	Medium dense, brown/gray, clayey fine SAND	A	13	6	14																
					14	7	14																
					15	7	14																
					16	7	14																
20		SC	Medium dense, brown/gray, clayey fine SAND	A	14	5	14																
					15	6	14																
					16	6	14																
					17	8	14																
25	End of Boring.																						

Offset approx. 20 feet west.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 5.25

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5.25

Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance										
				Type	No.			10	20	30	40	60	80					
0	[Dotted pattern]	SP	Very loose, gray, fine SAND  medium dense, brown  loose  very loose  medium dense	[Diagonal hatching]	1	3	[Line graph showing penetration resistance]											
					2	4												
					2	2												
					2	11												
					3	3												
5	[Dotted pattern]			[Diagonal hatching]	3	4												
					4	4												
					4	8												
	[Dotted pattern]			[Diagonal hatching]	4	3												
					2	4												
	[Dotted pattern]			[Diagonal hatching]	2	2												
					2	2												
	[Dotted pattern]			[Diagonal hatching]	4	4												
					5	5												
					7	7												
10	[Dotted pattern]			[Diagonal hatching]														
	[Diagonal hatching]	CL	Stiff, light gray/green, sandy CLAY	[Diagonal hatching]	6	5												
					7	7												
15	[Diagonal hatching]			[Diagonal hatching]														
	[Diagonal hatching]			[Diagonal hatching]	7	6												
					7	7												
20	[Diagonal hatching]			[Diagonal hatching]														
	[Diagonal hatching]			[Diagonal hatching]	8	5												
					6	6												
25	[Diagonal hatching]	SC	Medium dense, light green, clayey fine SAND	[Diagonal hatching]														
	[Diagonal hatching]		End of Boring.	[Diagonal hatching]														
30	[Diagonal hatching]			[Diagonal hatching]														
35	[Diagonal hatching]			[Diagonal hatching]														

Offset approx. 10 feet north-east.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 5.5

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance											
				Type	No.			Blows	10	20	30	40	60	80					
0	[Dotted pattern]	SP	Loose, gray, fine SAND	[Diagonal hatching]	1	4	5												
			very loose, brown		2	2													
			light brown		2	2													
			light gray/brown		3	2													
5	[Cross-hatched pattern]	SP-SC	Loose, light gray, fine SAND with trace clay	[Diagonal hatching]	4	1	2												
					5	0													
						1													
						1													
10	[Cross-hatched pattern]	SC	Medium dense, light gray/brown, clayey fine SAND	[Diagonal hatching]	5	1	5												
					2	2													
						3													
						4													
15	[Cross-hatched pattern]	SC	light gray	[Diagonal hatching]	6	4	11												
					7	5													
						8													
						6													
20	[Cross-hatched pattern]	SP-SC	Medium dense, light gray, fine SAND with trace clay	[Diagonal hatching]	7	6	15												
					8	7													
						7													
						8													
25	[Cross-hatched pattern]	SP-SC	End of Boring.	[Diagonal hatching]	8	5	13												
						6													
						7													
30	[Cross-hatched pattern]	SP-SC	End of Boring.	[Diagonal hatching]		6	13												
						7													
35	[Cross-hatched pattern]	SP-SC	End of Boring.	[Diagonal hatching]		7	13												

Offset approx. 25 feet south.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 125.9  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.

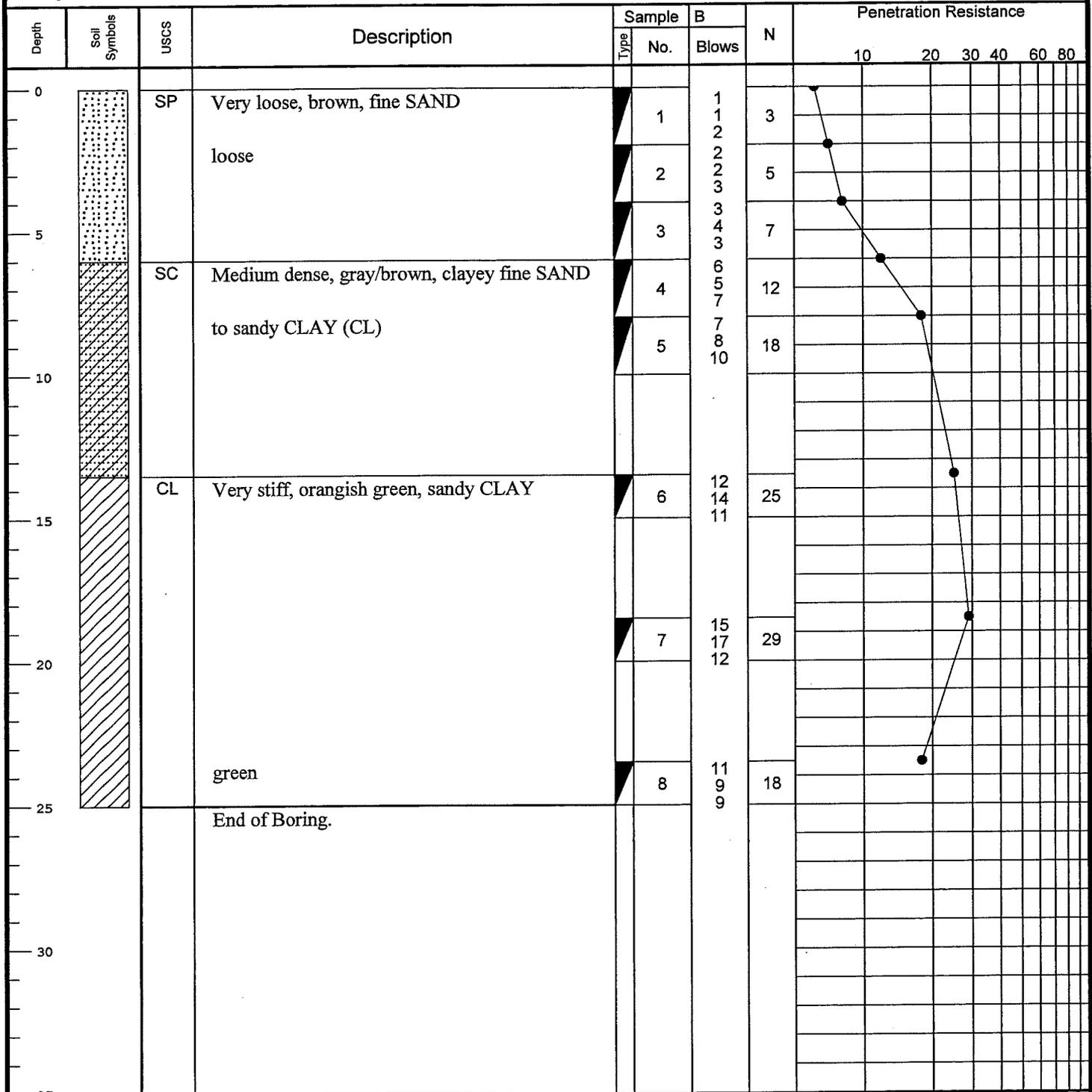
Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance											
				Type	No.			10	20	30	40	60	80						
0		SP	Loose, gray, fine SAND	1	3	7													
					2	4													
					3	3													
					4	4													
5					5	5													
					6	6													
					7	7													
					8	8													
10		CL	Stiff, gray/red/brown, sandy CLAY with orange/red staining																
15																			
20		SP-SC	Loose, light gray/green, fine SAND with trace clay	7	4	6													
25			End of Boring.	8	2	6													
30																			
35																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 115.3  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 114.7  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance																
				Type	No.		B Blows	10	20	30	40	60	80										
0	SP	SP	Very loose, brown, fine SAND  loose	Type 1	1	2 1 3	3																
					2	3 2 4		6															
5					3	2 3 3		6															
	SC	SC	Medium dense, red/gray/brown, clayey fine SAND to sandy CLAY (CL)	Type 2	4	5 7 6	13																
					5	9 11 12	23																
10	CL	CL	Very stiff, orangish brown, sandy CLAY  brown/green  green	Type 3	6	13 13 12	25																
					7	11 11 15	26																
20					8	10 12 9	21																
25			End of Boring.																				
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.





**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 109.1  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

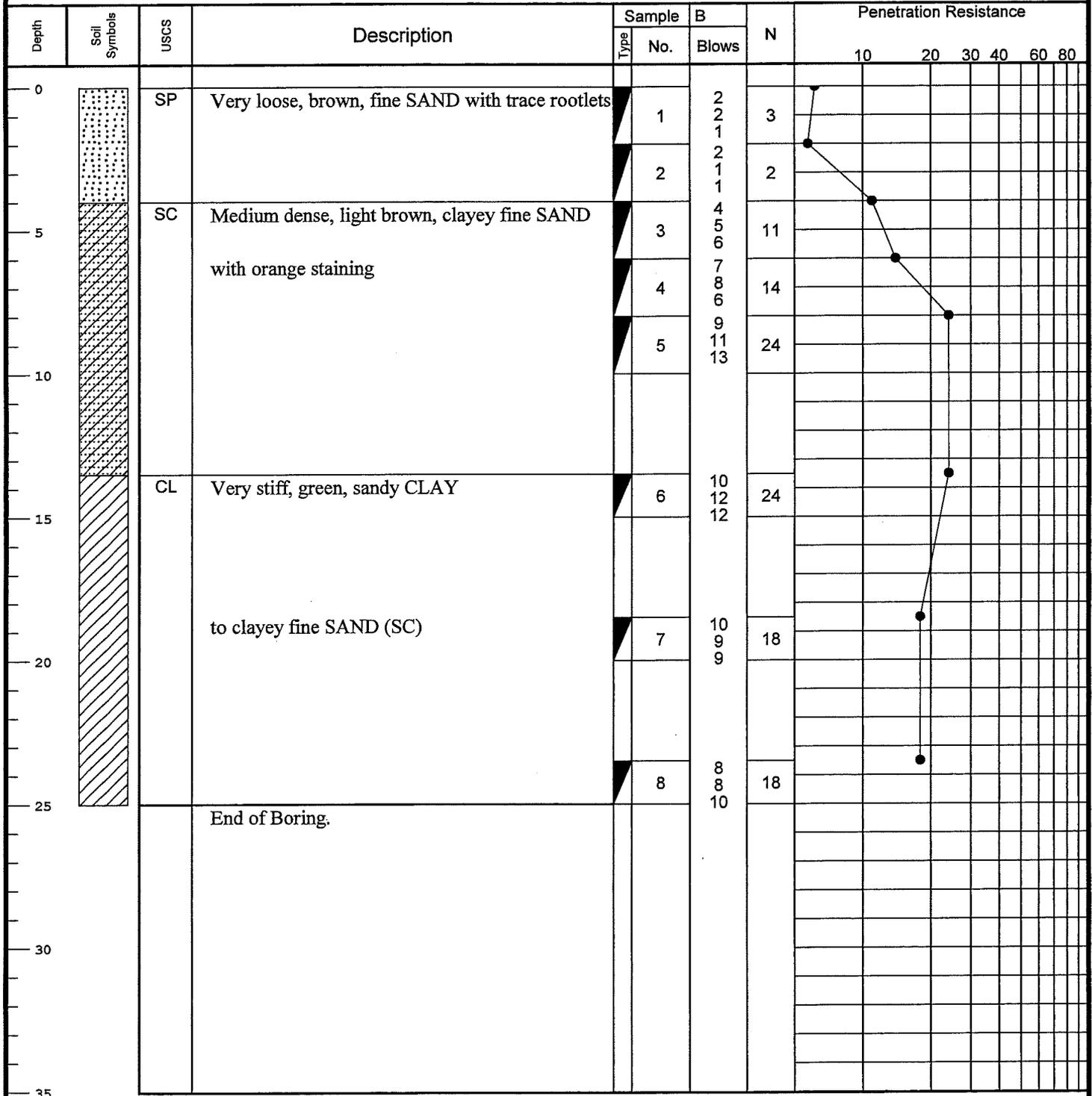
Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance															
				Type	No.			10	20	30	40	60	80										
0	[Dotted pattern]	SP	Very loose, brown, fine SAND with trace rootlets gray	[Black triangle]	1	1	2																
					2	1	4																
					3	2	4																
5	[Diagonal lines]	SC	Medium dense, brown/orange, clayey fine SAND with orange staining	[Black triangle]	4	4	12																
					5	2	4																
10	[Diagonal lines]	CL	Very stiff, light gray, sandy CLAY  orangish green	[Black triangle]	6	12	23																
					7	9	22																
					8	11	22																
					9	11	22																
					8	8	18																
					9	9	18																
					9	9	18																
					9	9	18																
25			End of Boring.																				
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** > Initial : N.E.

**Elevation:** 106.4  
**Logged By:** JBR

**At Completion** : N.E.



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : 4.5

**Elevation:** 107.0  
**Logged By:** JBR

**At Completion**  $\nabla$  : 4.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																
				Type	No.			Blows	10	20	30	40	60	80										
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND  loose, brown	[Black triangle]	1	1	4																	
					2	2																		
					2	2																		
					3	3																		
5	[Dotted pattern]	SP		[Black triangle]	3	2	5																	
					2	3																		
					3	3																		
					4	3																		
	[Diagonal lines]	SC	Loose, brown, clayey fine SAND	[Black triangle]	5	4	9																	
					5	4																		
					4	5																		
					4	4																		
	[Diagonal lines]	CL	Stiff, light green, sandy CLAY  firm	[Black triangle]	6	4	10																	
					5	5																		
					5	5																		
					7	5																		
20	[Diagonal lines]	CL		[Black triangle]	7	6	11																	
					5	5																		
25	[Diagonal lines]	CL	firm	[Black triangle]	8	5	8																	
					4	4																		
25			End of Boring.			4																		
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : 5

**Elevation:**  
**Logged By:** JBR

At Completion  $\nabla$  : 5

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND	[Black triangle]	1	1	3													
			loose, brown		2	4														
			medium dense		3	4														
5	[Diagonal hatching]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	4	6	13													
					5	7														
					6	7														
					7	8														
					8	9														
10	[Diagonal hatching]	CL	Very stiff, light green, sandy CLAY	[Black triangle]	9	10	19													
					10	10														
					11	10														
					12	10														
					13	10														
					14	10														
					15	10														
					16	10														
15	[Diagonal hatching]	CL	Very stiff, light green, sandy CLAY	[Black triangle]	6	7	16													
					7	8														
					8	8														
20	[Diagonal hatching]	CL	Very stiff, light green, sandy CLAY	[Black triangle]	7	8	17													
					8	9														
25	[Diagonal hatching]	CL	Very stiff, light green, sandy CLAY	[Black triangle]	8	9	26													
					9	12														
25			End of Boring.			14														
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : 6

**Elevation:** 109.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : 6

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance													
				Type	No.			Blows	10	20	30	40	60	80							
0	[Dotted pattern]	SP	Loose, gray/brown, fine SAND with rootlets  light brown	[Black triangle]	1	2	7														
						3															
						4															
						2															
						3															
5					3	2	5														
					2	3															
					3	3															
					4	4															
					5	5															
					5	4	9														
					4	5															
					4	5															
					5	4															
					4	4															
10																					
15	[Diagonal lines]	CL	Stiff, light green, sandy CLAY	[Black triangle]	6	5	12														
						6															
20	[Cross-hatch]	SP-SC	Medium dense, brown, fine SAND with trace clay and cemented sand	[Black triangle]	7	4	11														
						5															
						6															
25	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	5	11														
						6															
						5															
			End of Boring.			5															
30																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : 5.25

**Elevation:** 108.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5.25

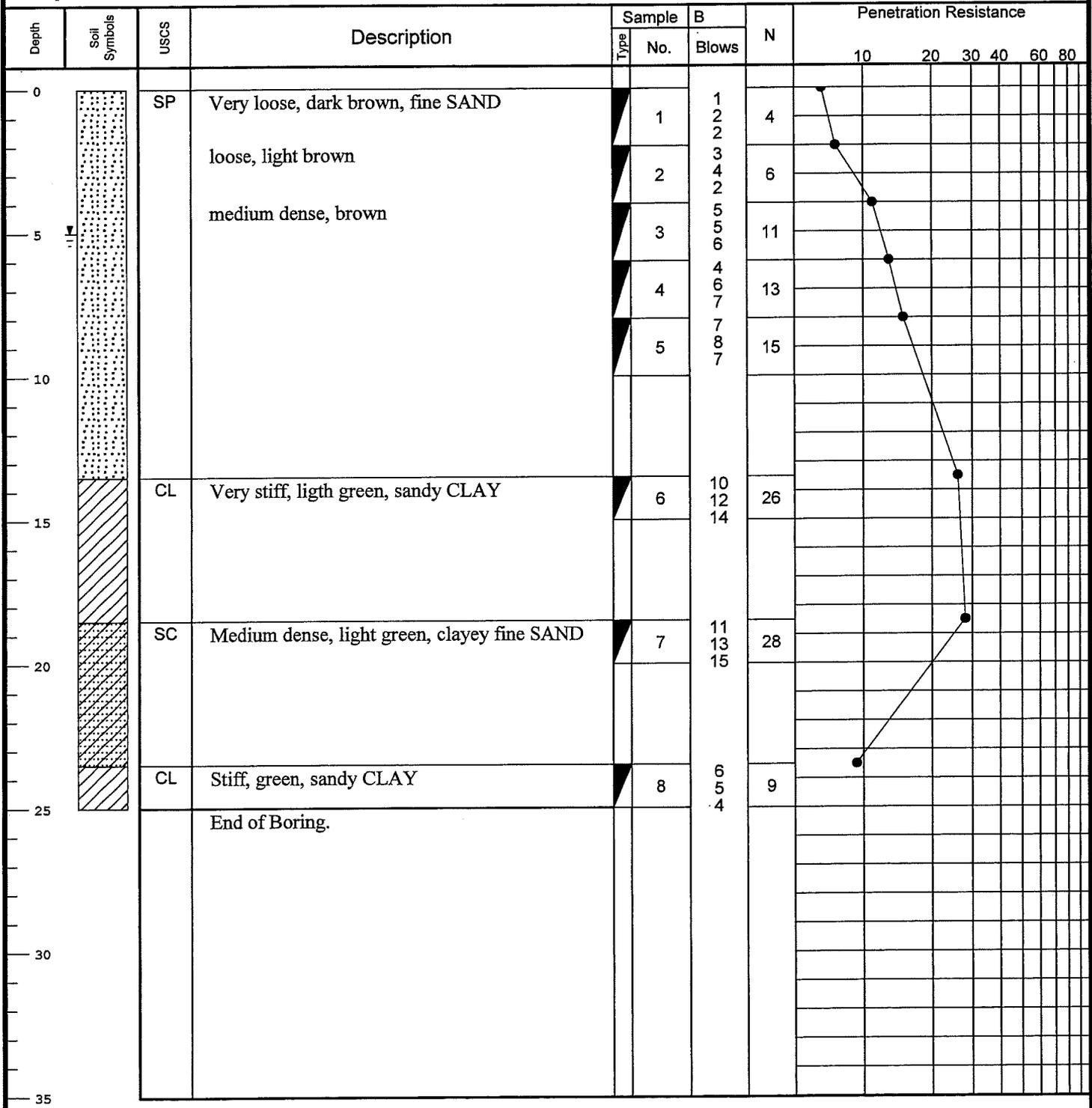
Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																	
				Type	No.			Blows	10	20	30	40	60	80											
0	[Dotted pattern]	SP	Very loose, dark brown, fine SAND  loose, brown  medium dense	[Black triangle]	1	1	3																		
					2	1																			
					3	4																			
					4	3																			
					5	4																			
5	[Dotted pattern]	CL	Very stiff, light green, sandy CLAY	[Black triangle]	6	8	24																		
						10																			
						14																			
15	[Diagonal lines]	SP-SC	Medium dense, brown, fine SAND with trace clay	[Black triangle]	7	7	21																		
						9																			
						12																			
20	[Diagonal lines]	CL	Stiff, light green, sandy CLAY	[Black triangle]	8	6	11																		
25			End of Boring.			6																			
						6																			
						5																			
30																									
35																									

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : 5

**Elevation:** 109.2  
**Logged By:** JBR

At Completion  $\nabla$  : 5



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : 8.5

**Elevation:** 118.7  
**Logged By:** JBR

**At Completion**  $\nabla$  : 8.5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																
				Type	No.			Blows	10	20	30	40	60	80										
0	[Dotted pattern]	SP	Loose, gray/brown, fine SAND with trace rootlets  medium dense  light brown	[Black triangle]	1	1	7																	
					2	2																		
					3	3																		
5	[Diagonal lines]	SC	Medium dense, light brown, clayey fine SAND with orange staining	[Black triangle]	4	4	15																	
					5	5																		
10	[Diagonal lines]	CL	Stiff, brown, sandy CLAY   very stiff, green	[Black triangle]	6	6	14																	
					7	7																		
15	[Diagonal lines]	SC	Medium dense, light green, clayey fine SAND	[Black triangle]	8	8	27																	
20																								
25			End of Boring.																					
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 117.9  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

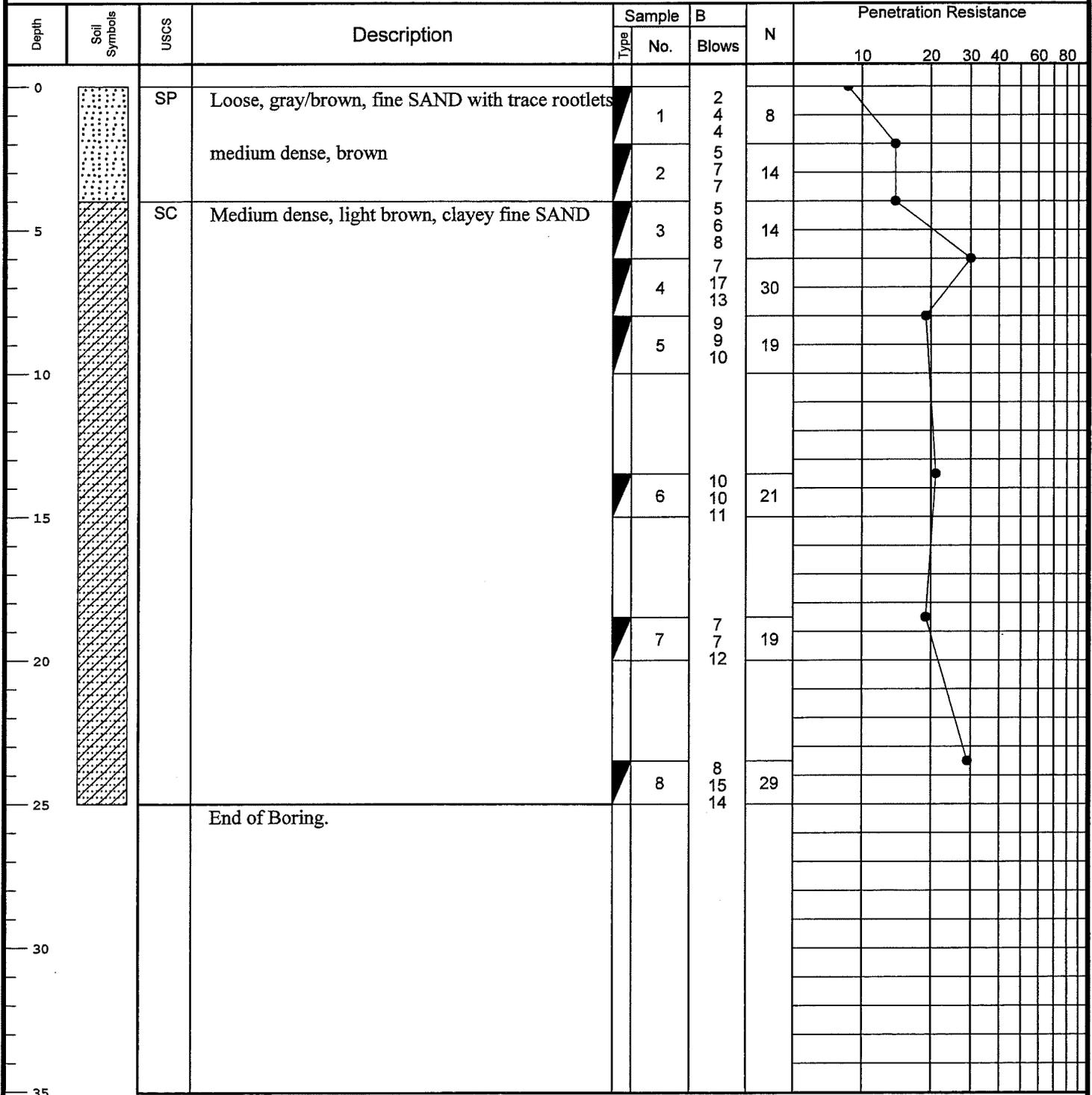
Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance										
				Type	No.			10	20	30	40	60	80					
0	[Dotted pattern]	SP	Very loose, brown, fine SAND with trace rootlets	[Black triangle]	1	1	4											
			medium dense, light brown					2	4	11								
			brown								3	5	14					
5	[Diagonal lines]	SP-SC	Medium dense, light brown, fine SAND with trace clay with orange staining	[Black triangle]	4	6	16											
			Medium dense, light brown, clayey fine SAND					5	8	18								
10	[Diagonal lines]	SC	light green	[Black triangle]	6	10	20											
								7	12	26								
											8	14	11					
25			End of Boring.															
30																		
35																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  : N.E.

**Elevation:** 117.9  
**Logged By:** JBR

**At Completion**  : N.E.



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy

**Elevation:** 110.2  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance						
								10	20	30	40	60	80	
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND with trace rootlets loose, brown	[Black triangle]	1	1	4							
					2	2								
			SC	Medium dense, light brown, clayey fine SAND with orange staining	[Black triangle]	3	4	9						
		4				5								
		5				6								
		CL	Very stiff, light green, sandy CLAY  stiff	[Black triangle]	6	7	20							
					7	8								
					8	9								
10	[Diagonal hatching]					10	23							
						11								
						12								
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**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 118.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Dotted pattern]	SP	Loose, brown, fine SAND with trace rootlets	[Triangle]	1	2	7													
					4															
	[Diagonal lines]	SC	Medium dense, orange/brown, clayey fine SAND with orange staining	[Triangle]	2	3	9													
					4															
5					3	6														
					5	5														
					4	12														
	[Diagonal lines]	CL	Very stiff, light green, sandy CLAY  light green	[Triangle]	5	10	19													
10					10															
					9															
	[Diagonal lines]	CL	Very stiff, light green, sandy CLAY  light green	[Triangle]	6	7	24													
15					12															
	[Diagonal lines]	CL	Very stiff, light green, sandy CLAY  light green	[Triangle]	7	8	20													
20					10															
	[Diagonal lines]	CL	Very stiff, light green, sandy CLAY  light green	[Triangle]	8	7	22													
25					9															
			End of Boring.			13														
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : N.E.

**Elevation:** 115.1  
**Logged By:** JBR

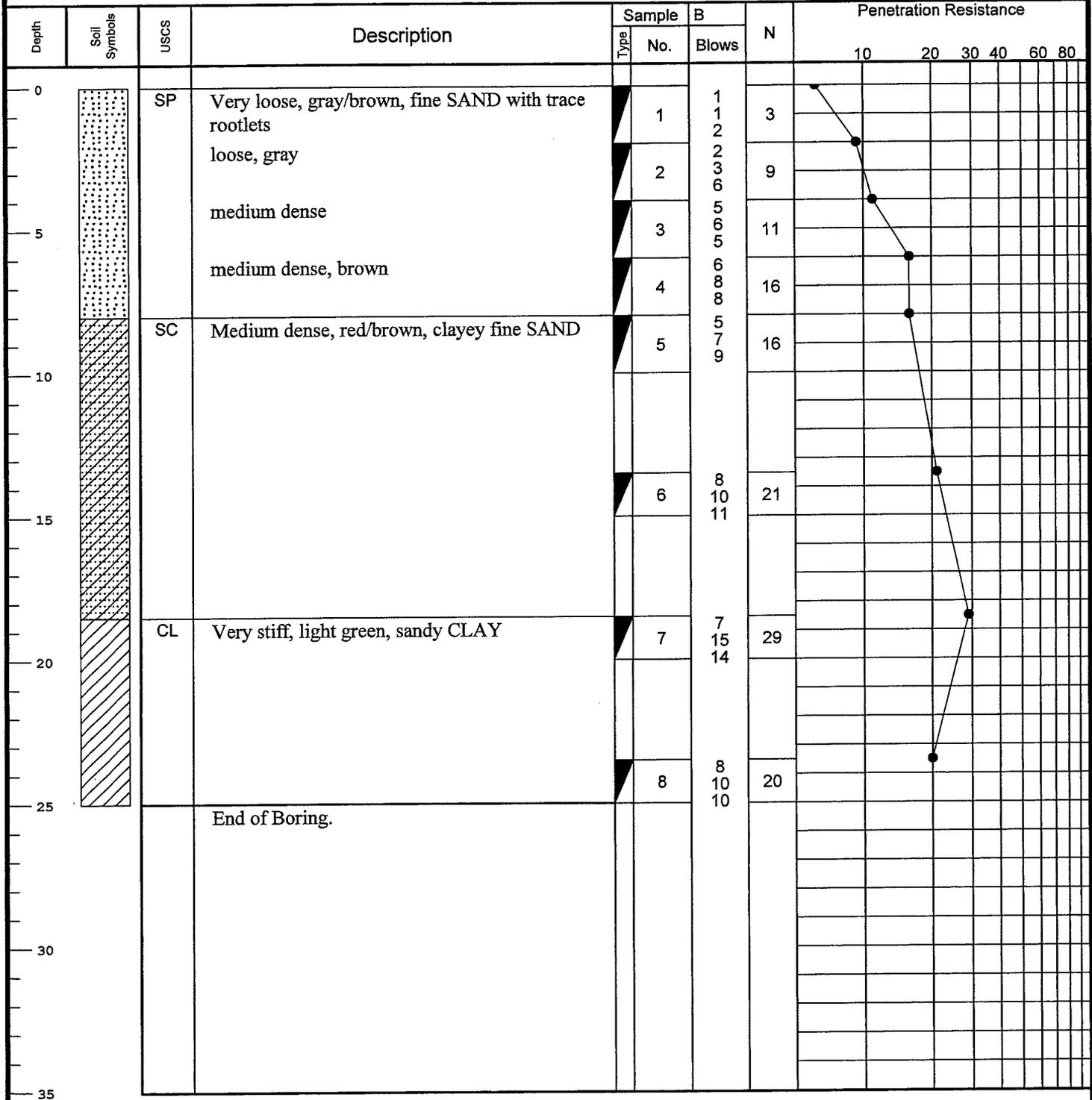
**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance																
				Type	No.			10	20	30	40	60	80											
0		SP	Loose, gray/brown, fine SAND	▲	1	2	5																	
2								SC	Loose, brown, clayey fine SAND medium dense, red/orange/brown to sandy CLAY (CL)	▲	2	3	8											
3														5	6	16								
4																	8	8	19					
4																				7	9	18		
5	7	7	15																					
6				10	11	24																		
7	6	8	17																					
8				6	8	17																		
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**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** > Initial  $\nabla$  : N.E.

**Elevation:** 112.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water > Initial**  $\nabla$  : N.E.

**Elevation:** 105.3  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND with trace rootlets	[Black triangle]	1	1	2																
					2	2	4																
					3	3	6																
5					4	4	11																
	[Diagonal lines]	SC	Medium dense, brown, clayey fine SAND  red/brown	[Black triangle]	5	5	12																
10																							
15					6	10 10 12	22																
	[Diagonal lines]	CL	Very stiff, light brown/green, sandy CLAY	[Black triangle]	7	9 12 14	26																
20																							
25			End of Boring.		8	8 15 14	29																
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : N.E.

**Elevation:** 111.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

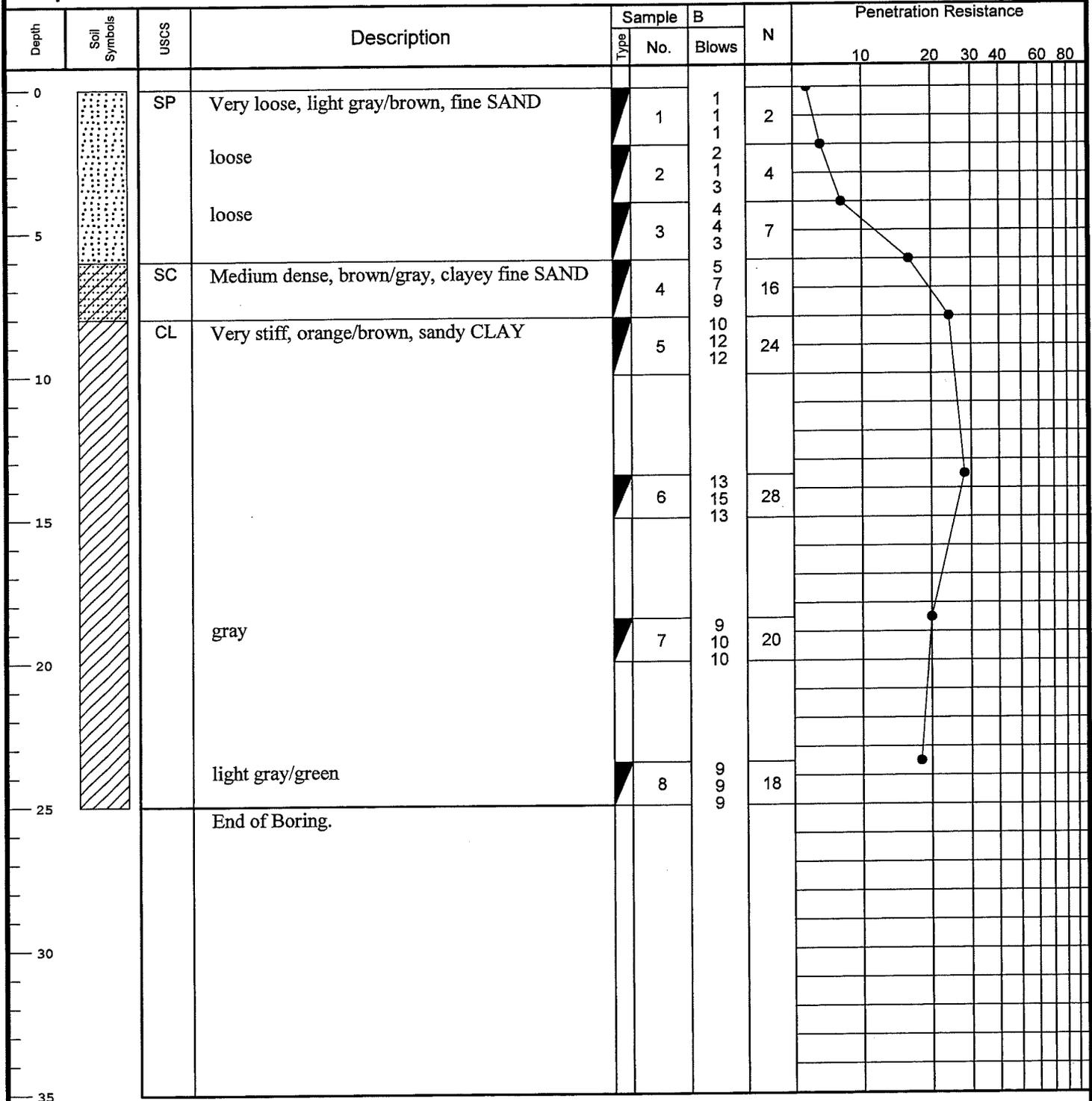
Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance								
								10	20	30	40	60	80			
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND  loose	[Black triangle]	1	1										
					2	2	4									
					2	2										
					3	4										
5	[Dotted pattern]	SP-SC	Medium dense, brown, fine SAND with trace clay	[Black triangle]	3	5										
					6	6	12									
					4	7										
					5	9										
					5	10										
					5	11										
					5	10										
					5	14										
10	[Diagonal lines]	CL	Very stiff, gray/brown, sandy CLAY  brown/orange	[Black triangle]	6	9										
					12	14	26									
					7	9										
					7	9										
					7	10										
20					7	10										
					8	8										
					8	9										
					8	8										
25			End of Boring.													
30																
35																

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 107.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water** > Initial  $\nabla$  : N.E.

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance										
								10	20	30	40	60	80					
0	[Dotted pattern]	SP	Very loose, brown, fine SAND	[Black triangle]	1	1	4											
			loose, light brown with minor orange staining		2	2												
		SC	Loose, orange/brown, clayey fine SAND with orange staining medium dense	[Black triangle]	3	2	5											
					4	2												
					5	2												
5	[Diagonal hatching]	CL	Very stiff, green/brown/gray, sandy CLAY with trace limestone fragments  stiff, light green/orange	[Black triangle]	6	3	8											
					4	3												
					5	5												
					6	10												
					8	13												
		7	6															
		8	8															
		9	9															
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15																		
20																		
25			End of Boring.															
30																		
35																		

Offset approx. 20 feet west.

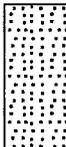
This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 107.3  
**Logged By:** JBR

**Depth to Water** > Initial  : N.E.

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance														
				Type	No.			Blows	10	20	30	40	60	80								
0		SP	Very loose, brown, fine SAND		1	2	2															
			loose, light brown with minor orange staining		2	3	6															
5		SC	Loose, orange/brown, clayey fine SAND with orange staining medium dense		3	3	7															
					4	5	11															
					5	6	15															
10		CL	Stiff, green/brown/gray, sandy CLAY		6	6	13															
					7	7	13															
20					8	6	14															
25			End of Boring.			8																
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 100.9  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance								
				Type	No.			Blows	10	20	30	40	60	80		
0	[Dotted pattern]	SP	Loose, brown, fine SAND with trace rootlets	[Black triangle]	1	1	5	[Graph line]	[Graph grid]							
			light brown		2	2									3	4
5	[Diagonal hatching]	SC	Medium dense, orange/brown, clayey fine SAND with orange staining and mottling	[Black triangle]	3	4	10	[Graph line]	[Graph grid]							
					4	5									6	7
					5	6									7	8
10					light gray	[Black triangle]	6								7	11
15					loose		7								8	
20						[Black triangle]	8								9	10
25				CL	Stiff, light green, sandy CLAY		9								10	
25			End of Boring.													
30																
35																

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** > Initial : N.E.

**Elevation:** 106.9  
**Logged By:** JBR

**At Completion** : N.E.

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance					
								10	20	30	40	60	80
0		SP	Very loose, dark gray/brown, fine SAND  loose, brown	▲	1	1	4						
					2	2							
		SC	Loose, brown/gray, clayey fine SAND  medium dense	▲	3	3	7						
					4	4							
5					5	5		10					
					6	6							
					7	7		13					
		SC	light green with trace shell	▲	8	8	15						
					9	9							
					10	10							
10		SC		▲	5	5	18						
					6	6							
15		SC		▲	6	6	21						
					7	7							
20		SC		▲	7	7	23						
					8	8							
25		CL	Very stiff, light gray/green, sandy CLAY with orange staining End of Boring.	▲	8	8							
30													
35													

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** > Initial  $\nabla$  : 5.5

**Elevation:** 115.0  
**Logged By:** JBR

At Completion  $\nabla$  : 5.5

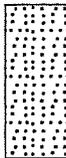
Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0	[Dotted pattern]	SP	Very loose, gray/brown, fine SAND with trace rootlets	[Black triangle]	1	1																	
						2	2	4															
	[Diagonal lines]	SC	Loose, brown, clayey fine SAND  medium dense, gray  red/brown	[Black triangle]	2	3	5																
									3	2													
5									4	6	12												
									4	6	6												
									5	8	14												
	[Diagonal lines]	CL	Very stiff, light gray/green, sandy CLAY	[Black triangle]	6	9	18																
									11	11	22												
									7	13	24												
20			light brown			12																	
			light brown			12																	
						9																	
25			End of Boring.			9																	
						9																	

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  : N.E.

**Elevation:** 114.7  
**Logged By:** JBR

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0		SP	Very loose, gray/brown, fine SAND		1	1	4																
					2	2																	
5		SC	Medium dense, gray/brown, clayey fine SAND		3	5	14																
					4	7																	
					5	11																	
						13																	
						11																	
10			with orange staining		6	7	15																
					7	8																	
20		CL	Very stiff, green, sandy CLAY		7	9	20																
						11																	
25			End of Boring.		8	8	17																
					9	9																	
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water >** Initial  $\nabla$  : 5

**Elevation:** 122.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0	[Dotted pattern]	SP	Very loose, brown, fine SAND  light brown	[Black triangle]	1	1	4																
					2	2	4																
					2	2	4																
					2	2	4																
5	[Dotted pattern]	SP-SC	Loose, light brown, fine SAND with trace clay	[Black triangle]	3	3	3																
					2	1	3																
					1	1	3																
					2	2	3																
10	[Dotted pattern]	SP-SC	Loose, light brown, fine SAND with trace clay	[Black triangle]	5	2	6																
					3	3	6																
					2	2	6																
					3	3	6																
15	[Diagonal lines]	SC	Medium dense, gray/brown, clayey fine SAND	[Black triangle]	6	4	11																
					5	6	11																
					6	6	11																
					6	6	11																
20	[Diagonal lines]	SC	Medium dense, gray/brown, clayey fine SAND	[Black triangle]	7	6	15																
					7	8	15																
					8	8	15																
					8	8	15																
25	[Diagonal lines]	SC	Medium dense, gray/brown, clayey fine SAND	[Black triangle]	8	5	16																
					7	9	16																
					9	9	16																
					9	9	16																
25			End of Boring.																				
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water>** Initial  $\nabla$  : 5

**Elevation:** 123.7  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5

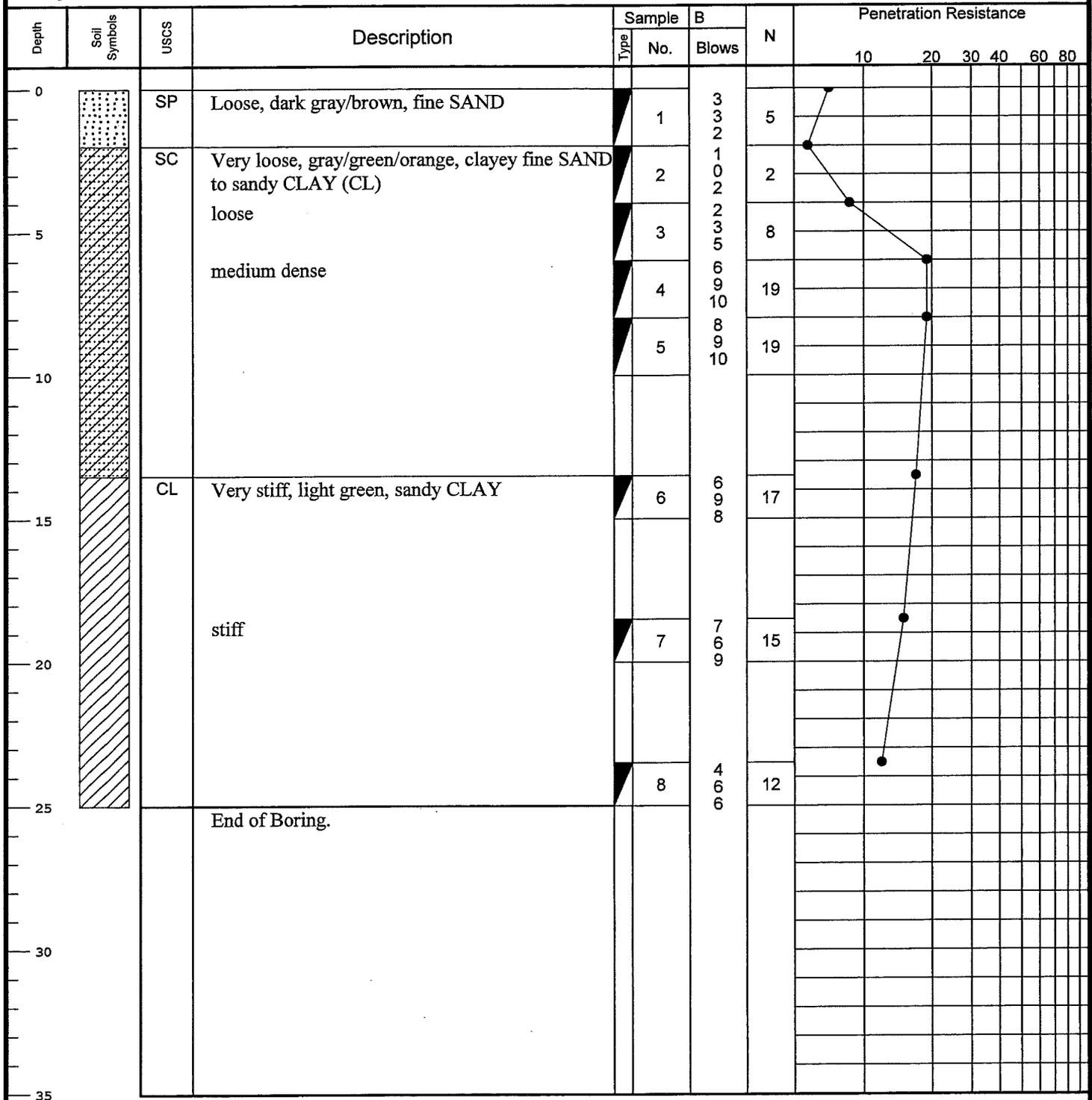
Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance															
								10	20	30	40	60	80										
0	[Dotted pattern]	SP	Loose, brown, fine SAND  very loose, light brown	[Diagonal hatching]	1	2 3 2	5																
					2	1 1 2	3																
					3	2 2 1	3																
					4	0 0 1	1																
	[Cross-hatched pattern]	SP-SC	Very loose, light brown, fine SAND with trace clay	[Diagonal hatching]	5	2 1 2	3																
	[Dotted pattern]	SP	Loose, brown, fine SAND  medium dense, gray	[Diagonal hatching]	6	3 4 5	9																
					7	6 7 7	14																
	[Cross-hatched pattern]	SP-SM	Medium dense, brown, fine SAND with trace silt	[Diagonal hatching]	8	7 8 9	17																
			End of Boring.																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 113.3  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 109.8  
**Logged By:** JBR

**Depth to Water >** Initial  : N.E.

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance															
								10	20	30	40	60	80										
0		SP	Loose, gray/brown, fine SAND  light brown		1	2 3 4	7																
					2	3 3 3	6																
5					3	4 5 5	10																
		SC	Medium dense, orange/brown, clayey fine SAND		4	4 6 7	13																
					5	6 7 9	16																
10																							
		CL	Stiff, light green, sandy CLAY  to sandy CLAY (CL)		6	6 7 8	15																
15																							
					7	8 9 10	19																
20																							
		SC	Medium dense, light green, clayey fine SAND		8	9 8 10	18																
25																							
			End of Boring.																				
30																							
35																							

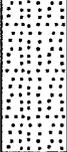
This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 112.3  
**Logged By:** JBR

**Depth to Water** > Initial  : N.E.

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance											
								10	20	30	40	60	80						
0		SP	Loose, brown, fine SAND with trace rootlets		1	1	5												
			light brown		2	2		3											
		SC	Medium dense, gray/brown, clayey fine SAND with orange staining		3	3	13												
					4	4		5											
					5	6		7											
					6	7		8											
					7	8		9											
		Cl	Very stiff, orange/gray, sandy CLAY		6	9	22												
					7	10													
					8	12													
			light green		7	12	25												
					8	13													
			End of Boring.		8	10	23												
						12													
25						11													
30																			
35																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 108.7  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance															
				Type	No.			10	20	30	40	60	80										
0		SP	Very loose, brown, fine SAND  light brown  with minor orange staining	▲	1	1	4																
					2	2																	
					1	1																	
					0	1																	
5		SC	Medium dense, gray, clayey fine SAND with red staining	▲	3	1	4																
					2	2																	
					4	4																	
					5	6																	
10																							
15																							
20																							
25																							
			to sandy CLAY (CL)	▲	7	4	13																
						5																	
						6																	
						7																	
						8																	
25			End of Boring.			7	15																
						8																	
						7																	
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 107.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance																	
				Type	No.			Blows	10	20	30	40	60	80											
0	[Soil Symbol: Dotted]	SP	Very loose, light brown, fine SAND	[Soil Symbol: Triangle]	1	1	3																		
					2	2		7																	
					3	3		7																	
5		[Soil Symbol: Diagonal Lines]	SC	Medium dense, gray/red, clayey fine SAND with red staining	[Soil Symbol: Triangle]	4	4	11																	
						5	5		12																
10																									
15																									
20				orange/gray/brown		7	4	11																	
			gray		8	6																			
25			End of Boring.			7	14																		
30																									
35																									

This information pertains only to this boring and should not be interpreted as being indicative of the site.



**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance												
				Type	No.			10	20	30	40	60	80							
0	[Dotted pattern]	SP	Loose, gray, fine SAND with trace rootlets  brown  medium dense	[Black triangle]	1	1	5													
					2	2														
					3	3														
5	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY to clayey fine SAND (SC)	[Black triangle]	4	4	11													
					5	5														
					6	6														
					6	6														
					6	6														
10	[Diagonal lines]	SC	Medium dense, orangish brown, clayey fine SAND  orange  light gray/brown	[Black triangle]	6	5	13													
					7	6														
					8	7														
15	[Diagonal lines]		End of Boring.	[Black triangle]	8	6	15													
					8	7														
20	[Diagonal lines]		End of Boring.	[Black triangle]	8	8	16													
					8	8														
25	[Diagonal lines]		End of Boring.	[Black triangle]	8	8	16													
					8	8														
30	[Diagonal lines]		End of Boring.	[Black triangle]	8	8	16													
					8	8														
35	[Diagonal lines]		End of Boring.	[Black triangle]	8	8	16													
					8	8														

Offset approx. 15 feet west.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 106.1  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0	[Dotted pattern]	SP	Loose, gray, fine SAND	[Black triangle]	1	1	5																
			light brown		2	2		3															
	[Cross-hatched pattern]	SP-SC	Loose, orange/brown, fine SAND with trace clay and minor orange staining	[Black triangle]	3	4	10																
					4	4		4															
			SC		Medium dense, orange, clayey fine SAND	5		6	7														
	[Diagonal hatched pattern]	CL	Stiff, light green, sandy CLAY	[Black triangle]	6	7	15																
						8		8	8														
						7		4	4	5	9												
			firm		8	3	6																
			End of Boring.		3	3																	
25																							
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 118.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance													
								10	20	30	40	60	80								
0	[Dotted pattern]	SP	Very loose, light brown, fine SAND	[Black triangle]	1	2	2														
					2	1	2	3													
					3	1	2	4													
5	[Diagonal lines]	SC	Loose, gray/brown, clayey fine SAND	[Black triangle]	4	2	6														
					5	2	6														
					6	2	6														
					7	2	6														
					8	3	6														
10	[Diagonal lines]	CL	Stiff, green, sandy CLAY	[Black triangle]	6	5	13														
					7	6	14														
					8	7	14														
20	[Diagonal lines]	CL	very stiff	[Black triangle]	7	5	14														
					8	6	18														
25	[Diagonal lines]		End of Boring.	[Black triangle]	8	8	18														
					9	9															
					9	9															
30	[Diagonal lines]			[Black triangle]																	
35	[Diagonal lines]			[Black triangle]																	

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Figure

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 115.4  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance																	
				Type	No.		B	Blows	10	20	30	40	60	80										
0	[Dotted pattern]	SP	Very loose, brown, fine SAND  loose  light brown	[Black triangle]	1	2 3	4																	
					2	2 3 3	6																	
5					3	2 3 4	7																	
	[Cross-hatched pattern]	SC	Medium dense, gray, clayey fine SAND intermixed with Limestone fragments	[Black triangle]	4	14 15 6	21																	
					5	5 6 6	12																	
	[Diagonal hatched pattern]	CL	Stiff, light gray, sandy CLAY with red staining    green with trace limestone fragments	[Black triangle]	6	5 6 7	13																	
					7	6 6 6	12																	
20					8	6 7 7	14																	
25																								
30			End of Boring.																					
35																								

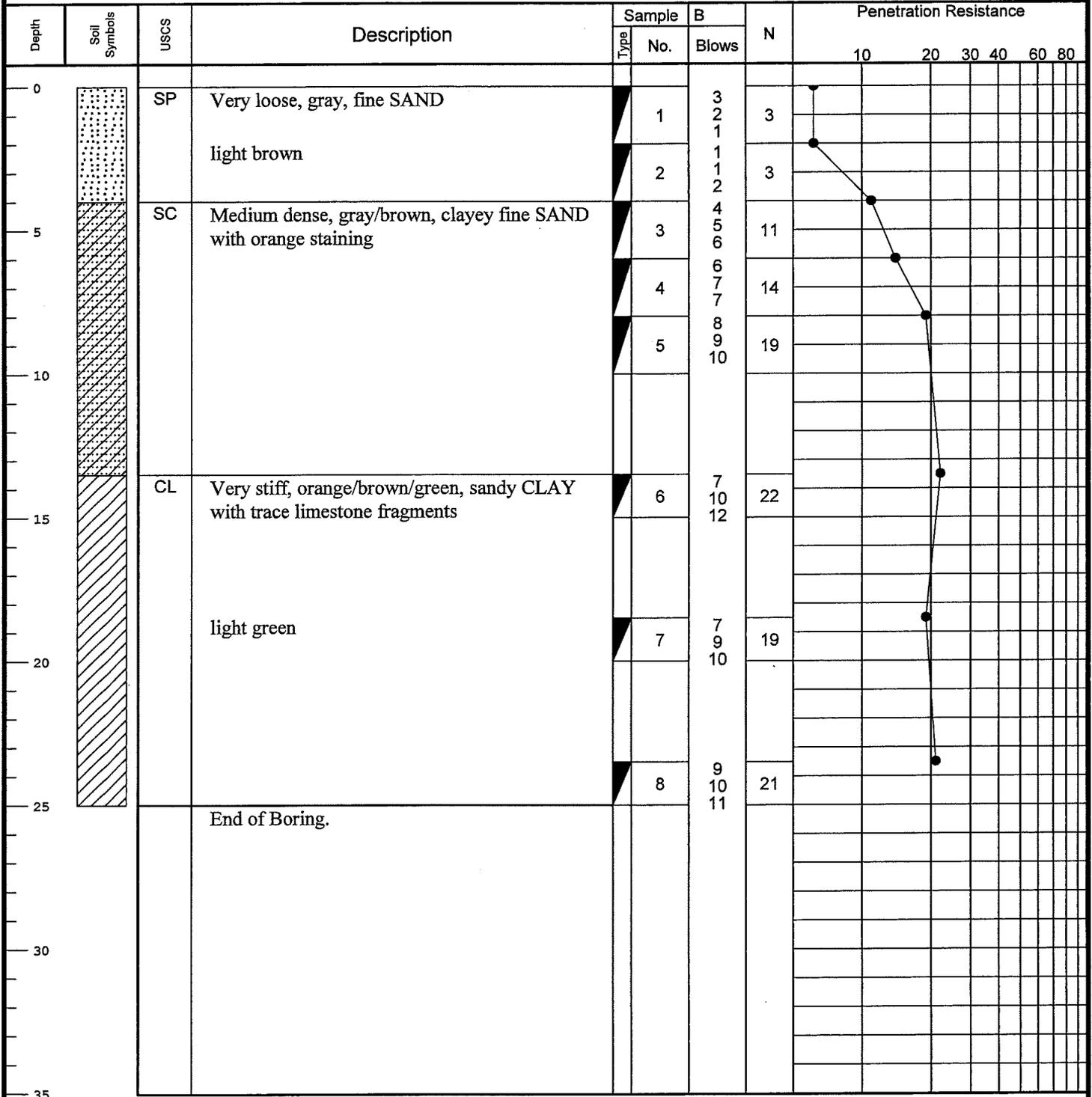
This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 118.5  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 112.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance														
				Type	No.			10	20	30	40	60	80									
0	[Dotted pattern]	SP	Very loose, very light brown, fine SAND  loose with minor orange staining	[Black triangle]	1	1	2															
					2	1	2															
5					3	1	2	5														
	[Diagonal lines]	SC	Medium dense, orange/brown, clayey fine SAND  loose	[Black triangle]	4	4	11															
					5	4	4	8														
10																						
	[Diagonal lines]	CL	Stiff, light green, sandy CLAY	[Black triangle]	6	5	13															
15																						
					7	4	10															
20																						
					8	4	13															
25			End of Boring.			6																
						7																
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 109.5  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance																
				Type	No.			10	20	30	40	60	80											
0	[Dotted pattern]	SP	Very loose, light brown, fine SAND  loose	[Black triangle]	1	2 1 3	4																	
					2	2 3 2	5																	
5					3	3 4 5	9																	
	[Cross-hatched pattern]	SC	Medium dese, gray/brown, clayey fine SAND with minor orange staining	[Black triangle]	4	4 5 6	11																	
					5	3 4 5	9																	
10	[Diagonal hatched pattern]	CL	Stiff, gray/red, sandy CLAY	[Black triangle]	6	5 6 7	13																	
					7	4 6 6	12																	
20					8	3 4 5	9																	
25					End of Boring.																			
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Figure

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** AmeriDrill  
**Drill Rig:** Gemco Buggy  
**Depth to Water** Initial  $\nabla$  : 5

**Elevation:** 107.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance																	
				Type	No.		B	Blows	10	20	30	40	60	80										
0		SP-SC	Loose, brown, fine SAND with trace clay	1	1	2																		
		SC	Loose, orange/brown, clayey fine SAND medium dense	2	2	2	5																	
						3	9																	
						4	9																	
						5	7																	
						3	9																	
5					3	9	19																	
				4	11	23																		
				5	9	19																		
					10	10																		
10																								
				6	6	16																		
					7	9																		
					8	8																		
15																								
				7	8	17																		
				8	6	16																		
					7	9																		
20		CL	Very stiff, light green, sandy CLAY intermixed with clayey fine SAND (SC)																					
25			End of Boring.																					
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  : N.E.

**Elevation:** Offset  
**Logged By:** JBR

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance													
				Type	No.			Blows	10	20	30	40	60	80							
0		SP	Very loose, brown, fine SAND		1	1	4														
					2	2															
		SP-SC	Very loose, orange/brown, fine SAND with trace clay and minor orange staining		2	2	3														
					1	1															
					2	2															
5		SC	Loose, light brown, clayey fine SAND with minor orange staining medium dense, red/orange/brown		3	3	9														
			4		4																
			5		5	11															
			6		6																
			7		7																
10			8	8	15																
15		CL	Very stiff, light green, sandy CLAY		6	10	27														
						13															
						14															
								9	23												
						7		10													
						13															
20							18														
					8	9															
						8															
25			End of Boring.			10															
30																					
35																					

Offset approx. 10 feet south.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 114.2  
**Logged By:** JBR

**Depth to Water >** Initial  : N.E.

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance													
				Type	No.			Blows	10	20	30	40	60	80							
0		SP	Very loose, brown, fine SAND		1	2 2 1	3														
		SC	Very loose, brown, clayey fine SAND		2	0 1 2	3														
			loose		3	2 3 6	9														
5			medium dense		4	7 8 10	18														
					5	9 10 11	21														
10		CL	Very stiff, light green, sandy CLAY with trace limestone fragments		6	10 10 12	22														
15					7	7 10 12	22														
20					8	7 8 8	16														
25			End of Boring.																		
30																					
35																					

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 118.6  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0	[Dotted pattern]	SP	Loose, gray, fine SAND  loose, light brown	[Black triangle]	1	2 3	7																
					2	4 5																	
5	[Diagonal lines]	SC	Medium dense, orange/brown, clayey fine SAND with orange mottling  light brown	[Black triangle]	3	4 5 6	11																
					4	6 7 8																	
					5	7 8 8																	
10	[Diagonal lines]	CL	Very stiff, green, sandy CLAY with trace limestone fragments  light green	[Black triangle]	6	7 10 11	21																
					7	12 13 13																	
					8	8 10 7																	
25			End of Boring.																				
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 112.9  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance															
				Type	No.			10	20	30	40	60	80										
0	[Dotted pattern]	SP	Loose, gray, fine SAND	[Triangle]	1	2	5																
			loose, brown		2	3																	
	[Diagonal lines]	SC	Medium dense, red/orange/brown, clayey fine SAND with orange mottling gray/brown	[Triangle]	3	4	9																
					4	5																	
					5	6																	
					6	7																	
					7	8																	
	[Diagonal lines]	CH	Stiff, orange/green, CLAY	[Triangle]	6	5	15																
					7	6																	
					8	7																	
	[Diagonal lines]	CL	Very stiff, orange/green, sandy CLAY	[Triangle]	8	8	18																
					9	9																	
25			End of Boring.																				
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 109.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance												
				Type	No.		B	Blows	10	20	30	40	60	80					
0	[Dotted pattern]	SP	Loose, gray, fine SAND	[Black triangle]	1	3	5												
			loose, light brown					3											
	[Cross-hatched pattern]	SC	Medium dense, red/orange/brown, clayey fine SAND with orange mottling	[Black triangle]	2	2	7												
			gray/brown					3											
5	[Cross-hatched pattern]	SC	Medium dense, red/orange/brown, clayey fine SAND with orange mottling	[Black triangle]	3	4	12												
			gray/brown					5											
	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	4	7	16												
								8											
10	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	5	6	16												
								7											
	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	6	10	19												
								9											
15	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	7	6	16												
								7											
	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	8	9	21												
								9											
20	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	7	10	19												
								9											
	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	8	9	21												
								9											
25	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	8	9	21												
								9											
	[Diagonal lines]	CL	Very stiff, gray/orange, sandy CLAY with orange mottling	[Black triangle]	8	9	21												
								9											
25			End of Boring.																
30																			
35																			

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 108.6  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance																			
				Type	No.		B	Blows	10	20	30	40	60	80												
0		SP	Loose, gray, fine SAND	▲	1	4	3	5																		
									2	2	3	6														
													3	2	3	7										
5									4	5	6	13														
		5	6	7	13																					
						6	6	7	13																	
10		7	6	7	16																					
						8	9	14	23																	
15	9	8	9	23																						
					10	11	12	23																		
20	11	12	23	23																						
					12	12	23	23																		
25	12	12	23	23																						
					12	12	23	23																		
30	12	12	23	23																						
					12	12	23	23																		
35	12	12	23	23																						
					12	12	23	23																		
	12	12	23	23																						
					12	12	23	23																		
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	12	12	23	23																						
					12	12	23	23																		
	12	12																								







**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 107.8  
**Logged By:** JBR

**Depth to Water** > Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance					
								10	20	30	40	60	80
0	[Dotted pattern]	SP	Very loose, brown, fine SAND  light brown  loose	[Black triangle]	1	1	3						
					2	1							
					3	2							
5	[Cross-hatched pattern]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	4	2	8						
					5	3							
					6	5							
					7	6							
					8	7							
10	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY with trace limestone fragments	[Black triangle]	9	8	13						
					10	6							
					11	5							
15	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY with trace limestone fragments	[Black triangle]	12	5	15						
					13	6							
20	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY with trace limestone fragments	[Black triangle]	14	5	10						
					15	6							
25	[Cross-hatched pattern]	SC	Medium dense, brown/green, clayey fine SAND	[Black triangle]	16	4	11						
			End of Boring.		17	5							
30													
35													

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 8

**Elevation:** 105.4  
**Logged By:** JBR

**At Completion**  $\nabla$  : 8

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance																
				Type	No.		B	Blows	10	20	30	40	60	80									
0	[Dotted pattern]	SP	Loose, light brown, fine SAND  medium dense, light gray	[Black triangle]	1	2	7																
5	[Dotted pattern]	SP	medium dense, light gray	[Black triangle]	2	3	9																
	[Dotted pattern]	SP	medium dense, light gray	[Black triangle]	3	4	9																
	[Dotted pattern]	SP	medium dense, light gray	[Black triangle]	4	5	11																
	[Dotted pattern]	SP	medium dense, light gray	[Black triangle]	5	5	13																
10	[Dotted pattern]	SP	medium dense, light gray	[Black triangle]	6	3	11																
	[Dotted pattern]	SP	medium dense, light gray	[Black triangle]	7	5	13																
15	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY with trace limestone fragments	[Black triangle]	6	3	11																
	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY with trace limestone fragments	[Black triangle]	7	5	13																
20	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY with trace limestone fragments	[Black triangle]	7	6	13																
	[Diagonal lines]	CL	Stiff, gray/brown, sandy CLAY with trace limestone fragments	[Black triangle]	7	6	13																
25	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	7	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
30	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
35	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13																
	[Cross-hatch]	SC	Medium dense, brown, clayey fine SAND	[Black triangle]	8	6	13		</														

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 104.0  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : N.E.

**At Completion**  $\nabla$  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		Blows	N	Penetration Resistance										
				Type	No.			10	20	30	40	60	80					
0	[Dotted pattern]	SP	Loose, gray/brown, fine SAND light brown	[Diagonal hatching]	1	2	7											
					2	3												
	[Cross-hatch pattern]	SC	Medium dense, brown, clayey fine SAND	[Diagonal hatching]	3	4	8											
					4	4												
5	[Cross-hatch pattern]	SP-SC	Medium dense, brown, fine SAND with trace clay	[Diagonal hatching]	5	4	12											
					6	7												
					7	8												
10	[Cross-hatch pattern]	SC	Medium dense, gray, clayey fine SAND	[Diagonal hatching]	8	5	15											
					6	6												
					7	7												
15	[Cross-hatch pattern]	SC	Medium dense, gray, clayey fine SAND	[Diagonal hatching]	9	5	13											
					6	6												
					7	7												
20	[Cross-hatch pattern]	SC	Medium dense, gray, clayey fine SAND	[Diagonal hatching]	10	6	15											
					7	7												
					8	8												
25	[Cross-hatch pattern]	SC	Medium dense, gray, clayey fine SAND	[Diagonal hatching]	11	5	13											
					6	6												
					7	7												
25			End of Boring.															
30																		
35																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

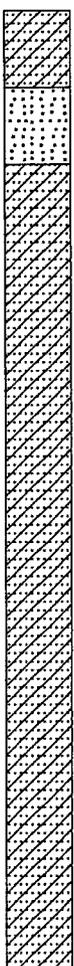


**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 105.3  
**Logged By:** JBR

**Depth to Water** > Initial  : N.E.

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample Type	Sample No.	B Blows	N	Penetration Resistance																
								10	20	30	40	60	80											
0		SC	Loose, red/brown, clayey fine SAND		1	2 3 4	7																	
		SP	Medium dense, light brown/white, fine SAND		2	5 6 7	13																	
		SC	Medium dense, brown, clayey fine SAND			3	6 7 8	15																
						4	8 10 13	23																
						5	9 10 13	23																
						6	10 13 13	26																
		light green				7	8 10 14	24																
						8	10 10 16	26																
25			End of Boring.																					
30																								
35																								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 105.0  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.

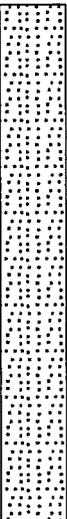
Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance													
				Type	No.		B	Blows	10	20	30	40	60	80						
0	[Dotted pattern]	SP	Loose, gray, fine SAND  light brown	[Black triangle]	1	1	5													
					2	2														
					3	3														
5	[Diagonal hatching]	SC	Loose, gray/brown, clayey fine SAND with orange staining  medium dense	[Black triangle]	4	3	6													
					5	4														
					6	5														
					7	6														
					8	7														
10	[Diagonal hatching]	CL	Very stiff, gray/brown, sandy CLAY with trace limestone fragments	[Black triangle]	6	10	25													
					7	12														
					8	13														
15	[Diagonal hatching]	SC	Medium dense, gray/brown, clayey fine SAND	[Black triangle]	8	9	20													
					9	10														
20	[Diagonal hatching]	SC	End of Boring.	[Black triangle]	7	13	23													
					8	10														
25	[Diagonal hatching]	SC	End of Boring.	[Black triangle]	8	10	20													
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water** > Initial  : N.E.

**Elevation:** 105.4  
**Logged By:** JBR

**At Completion**  : N.E.

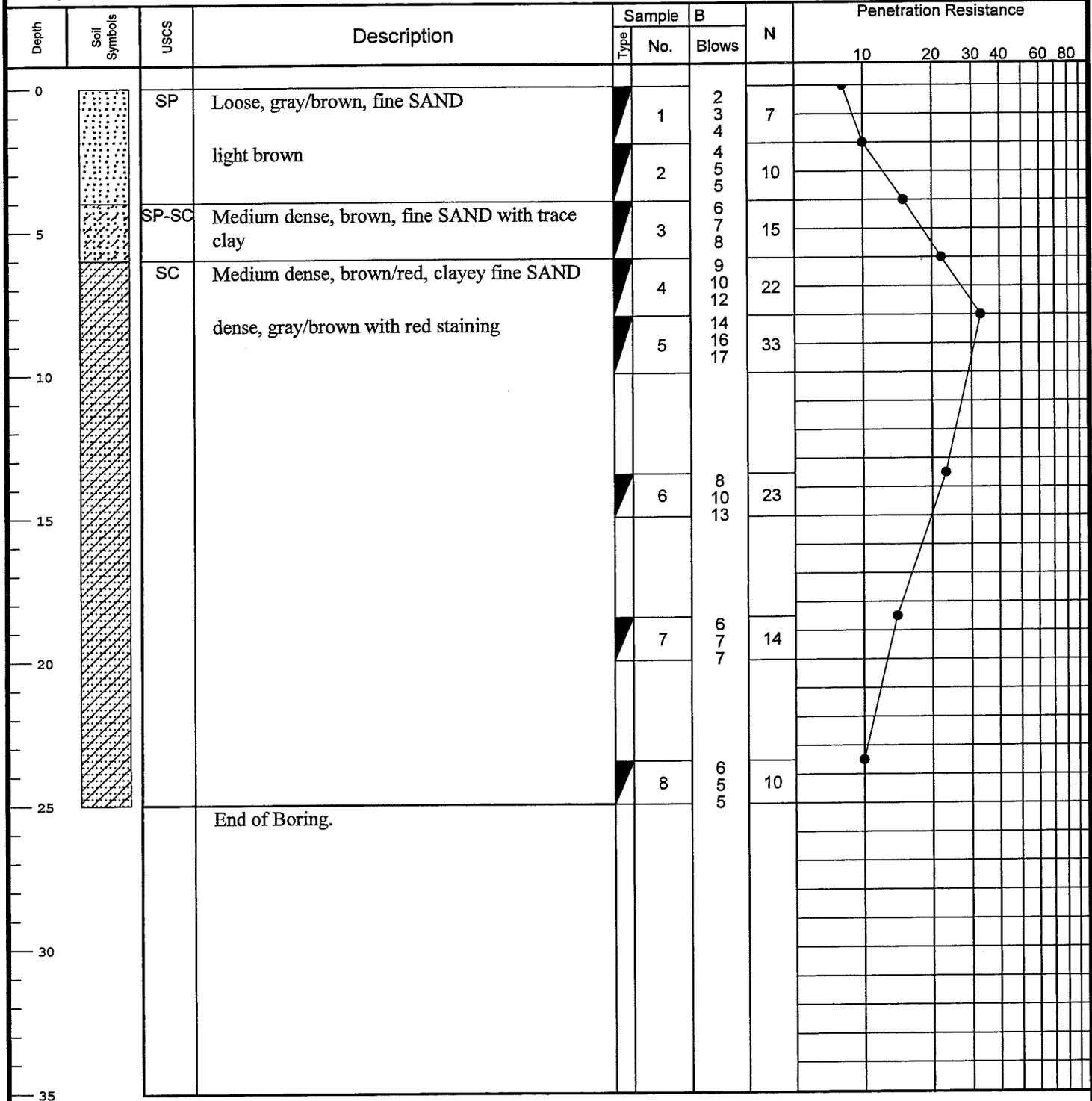
Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance										
				Type	No.			Blows	10	20	30	40	60	80				
0		SP	Loose, brown, fine SAND		1	2	5											
			very loose, light brown		2	3												
			loose		3	4												
5			gray/brown with orange staining		4	5												
					5	6												
10		SP-SC	Medium dense, brown, fine SAND with trace clay		6	6	17											
15					7	7												
					8	8												
20		SC	Medium dense, brown, clayey fine SAND		7	8	18											
			orange/brown		8	9												
25			End of Boring.			7	11											
						6												
						5												
30																		
35																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water** > Initial  $\nabla$  : N.E.

**Elevation:** 107.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.



This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 105.1  
**Logged By:** JBR

**Depth to Water** > Initial : N.E.

**At Completion** : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance										
				Type	No.			Blows	10	20	30	40	60	80				
0		SP	Loose, orange/brown, fine SAND		1	2	7											
		SC	Loose, brown, clayey fine SAND  medium dense  gray		2	3												
					3	5												
5					4	6												
					5	8												
10		CL	Stiff, light green/gray/brown, sandy CLAY with orange staining  very stiff  light green		6	6	15											
					7	7												
15					8	8												
20			End of Boring.			8	18											
25						9												
30																		
35																		

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : 4

**Elevation:** 117.7  
**Logged By:** JBR

**At Completion**  $\nabla$  : 4

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance															
				Type	No.			Blows	10	20	30	40	60	80									
0	[Dotted pattern]	SP	Very loose, brown, fine SAND light brown loose medium dense	[Black triangle]	1	1	4																
					2	1	2																
					3	2	7																
					4	4	13																
	[Diagonal lines]	SC	Medium dense, light gray, clayey fine SAND	[Black triangle]	5	6	16																
						8																	
	[Diagonal lines]	CL	Very stiff, orange/gray, sandy CLAY	[Black triangle]	6	6	16																
						7	6	13															
						8	6	11															
25			End of Boring.			5																	
30																							
35																							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 114.2  
**Logged By:** JBR

**Depth to Water** > Initial : N.E.

**At Completion** : N.E.

Depth	Soil Symbols	USCS	Description	Sample		N	Penetration Resistance																		
				Type	No.		B	Blows	10	20	30	40	60	80											
0		SP	Loose, gray, fine SAND  medium dense  loose, light brown		1	2 3 3	6																		
					2	3 5 6		11																	
					3	3 4 5			9																
5		CL	Stiff, light brown/gray, sandy CLAY with orange staining  very stiff, gray     light brown/green with orange staining		4	6 7 8	15																		
					5	8 8 9		17																	
10																									
15																									
20																									
25																									
			End of Boring.																						
30																									
35																									

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Figure

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 120.1  
**Logged By:** JBR

**Depth to Water** > Initial : N.E.

**At Completion** : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance								
				Type	No.			10	20	30	40	60	80			
0		SP	Very loose, brown, fine SAND		1	3 2 2	4									
		SC	Very loose, brown, clayey fine SAND with orange staining		2	1 0 1	1									
5		CL	Firm, orange/red, sandy CLAY stiff		3	1 2 5	7									
		SC	Medium dense, light gray, clayey fine SAND to sandy CLAY		4	6 7 7	14									
		SC	Medium dense, light gray, clayey fine SAND to sandy CLAY		5	5 6 7	13									
15		CL	Very stiff, orange/light brown, sandy CLAY stiff, light green		6	8 9 9	18									
20		CL	very stiff		7	6 6 5	11									
25		CL	very stiff		8	7 8 8	16									
25			End of Boring.													

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water** > Initial  $\nabla$  : 5.5

**Elevation:** 111.2  
**Logged By:** JBR

**At Completion**  $\nabla$  : 5.5

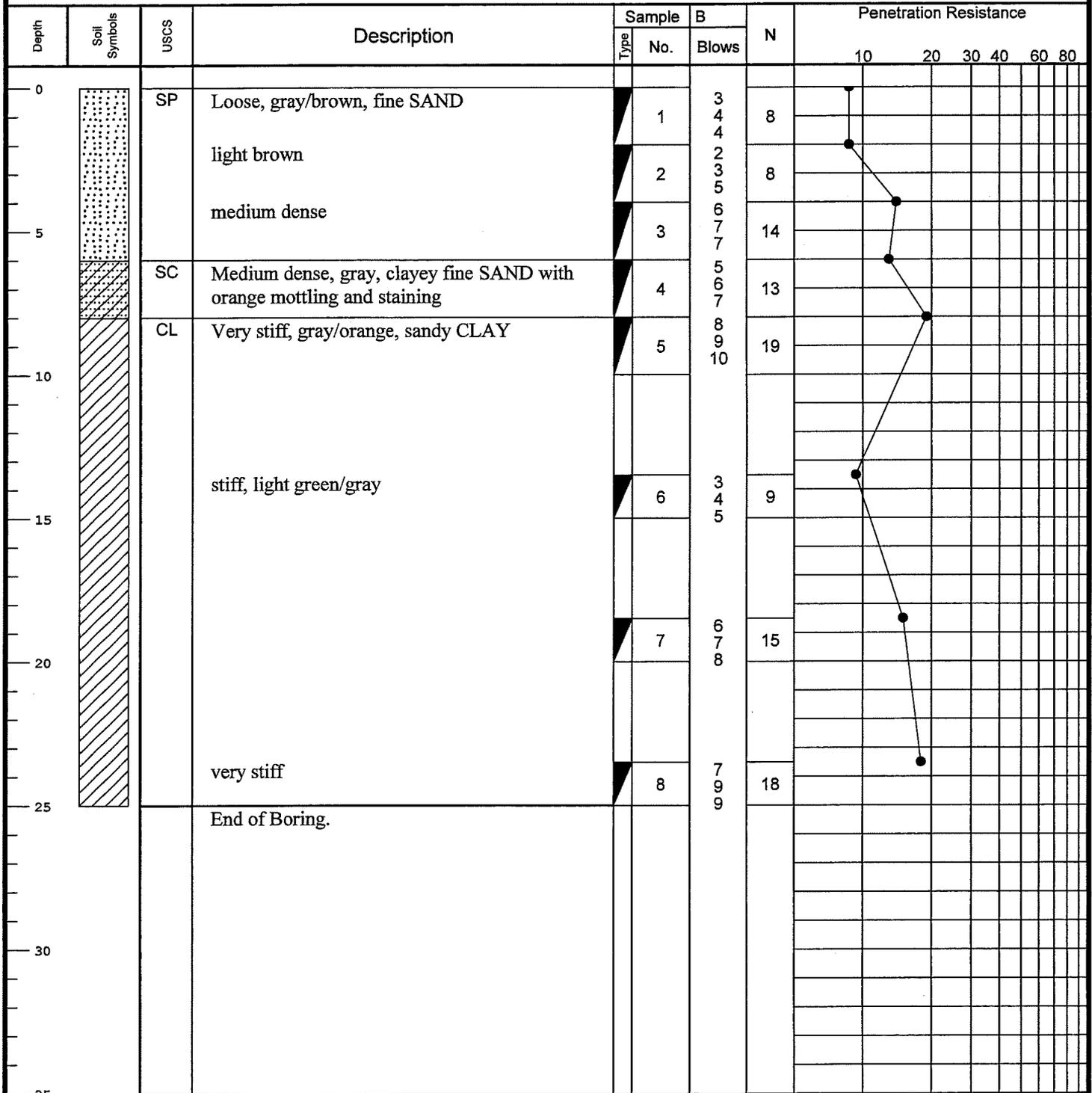
Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance												
				Type	No.			Blows	10	20	30	40	60	80						
0	[Dotted pattern]	SP	Very loose, gray, fine SAND	[Triangle]	1	3	4													
			loose, light gray		2	2		4												
			medium dense		3	2		9												
5	[Dotted pattern]	SP-SC	Medium dense, orange/brown, fine SAND with trace clay	[Triangle]	4	4	11													
					5	5		14												
	[Diagonal lines]	CL	Stiff, gray/orange, sandy CLAY	[Triangle]	5	3	11													
					6	5		13												
					7	6		15												
					8	7		21												
					8	10														
25			End of Boring.			11														
30																				
35																				

This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45  
**Depth to Water >** Initial  $\nabla$  : N.E.

**Elevation:** 105.5  
**Logged By:** JBR

**At Completion**  $\nabla$  : N.E.



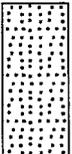
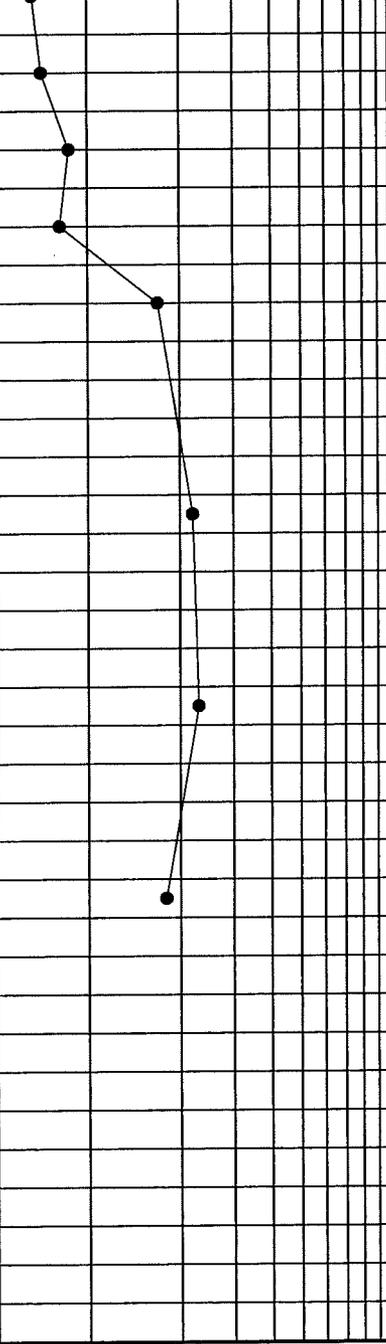
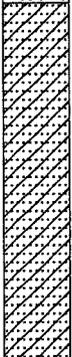
This information pertains only to this boring and should not be interpreted as being indicative of the site.

**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 109.5  
**Logged By:** JBR

**Depth to Water >** Initial  : N.E.

**At Completion**  : N.E.

Depth	Soil Symbols	USCS	Description	Sample		B	N	Penetration Resistance					
				Type	No.			Blows	10	20	30	40	60
0		SP	Very loose, brown, fine SAND		1	3	4						
			loose, light brown		2	2 2 1 2 3							5
5		SC	Loose, orange/gray, clayey fine SAND		3	3 3 3 5	8						
			orange/gray/red		4	1 1 6							7
			light gray/orange/red		5	7 8 9							17
15		CL	Very stiff, gray/green/orange/red, sandy CLAY		6	8 10 12	22						
			light green		7	7 10 13							23
25			End of Boring.		8	8 9 9	18						
30													
35													

This information pertains only to this boring and should not be interpreted as being indicative of the site.





**Project:** Epperson Ranch  
**Client:** Lennar Homes, Inc.  
**Location:** Pasco County, Florida  
**Driller:** US Precision Drilling  
**Drill Rig:** CME-45

**Elevation:** 114.5  
**Logged By:** JBR

**Depth to Water >** Initial  $\nabla$  : 3.75

**At Completion  $\nabla$  :** 3.75

Depth	Soil Symbols	USCS	Description	Sample		B Blows	N	Penetration Resistance														
				Type	No.			10	20	30	40	60	80									
0	[Dotted pattern]	SP	Loose, gray, fine SAND  light brown  very loose	[Black triangle]	1	2 3 3	6															
					2	4 5 5	10															
5					3	3 2 2	4															
	[Dotted pattern]	SP-SC	Very loose, light brown, fine SAND with trace clay  loose	[Black triangle]	4	0 1 1	2															
					5	2 3 4	7															
10																						
	[Diagonal lines]	CL	Stiff, orange/gray, sandy CLAY to clayey fine SAND (SC)  light green	[Black triangle]	6	4 5 6	11															
15																						
					7	5 6 6	12															
20																						
25			End of Boring.		8	4 6 7	13															
30																						
35																						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

# KEY TO SYMBOLS

Symbol Description

## Strata symbols

 Poorly graded sand

 Clayey sand

 Low plasticity  
clay

 Poorly graded sand  
with clay

 Poorly graded sand  
with silt

 High plasticity  
clay

 Low plasticity  
organic silts

## Misc. Symbols

 Water table during  
drilling

 Water table at  
boring completion

## Notes:

1. Exploratory borings were performed 07.12.06 to 07.20.06 using a 2-inch diameter split barrel sampler driven by a 140 lbs hammer (In accordance with ASTM D1586 procedure).
2. Boring locations in (plan 1) were staked by a Heidt & Associates, Inc. so boring location plan should be considered approximate.
3. These logs are subject to the limitations, conclusions, and recommendations in this report.