



**GEOTECHNICAL EXPLORATION REPORT
THREE KIDS MINE SITE MIXED-USE DEVELOPMENT
SEC LAKE MEAD PARKWAY AND LAKE LAS VEGAS PARKWAY
HENDERSON, NEVADA**

**PROJECT NO.: 22004
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Prepared for:

PULTE HOMES

Prepared by:

**CENTURION CONSULTANTS
6635 BADURA AVENUE
SUITE A-140
LAS VEGAS, NEVADA 89118
Phone: (702) 202-2199**

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1.0 INTRODUCTION

This report presents the results of our geotechnical exploration for the proposed mixed-use development to be located at the Three Kids Mine Site. The site is located at the southeast corner of Lake Mead Parkway and Lake Las Vegas Parkway in Henderson, Nevada. The general location of the site is shown on Figure No. 1, Vicinity Map.

The purpose of our services was to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil conditions
- General geology of the area
- Foundation design and construction
- Retaining wall design and construction
- Floor slab design and construction
- Pavement design and construction
- Earthwork

This report is for the purpose of providing geotechnical engineering and/or testing information and requirements. The scope of our services for this project did not include any environmental assessment or investigation for the presence or absence of hazardous or toxic material in structures, soil, surface water, groundwater or air, below or around this site.

2.0 PROJECT INFORMATION

The site consists of approximately 519 acres and will be used for mixed-use development. The proposed development is anticipated to include residential, commercial, schools, and parks. It is assumed that structures will be one and/or two stories in height, of wood-frame construction with concrete slab-on-grade lower floors. Structural loads for the proposed buildings were not provided. We have assumed maximum dead- plus live-loads for columns and wall loading at approximately 68 kips and 2 kips per lineal foot, respectively. There will be on-site paved areas. Final grades will require significant cuts and fills to attain (in excess of 200 to 300 feet). It is our understanding that the on-site mining tailings will be placed at the bottom of the central excavation/pit. The City of Henderson will require that final street sections be verified based on R-value tests taken at subgrade during construction.

3.0 SITE EXPLORATION

The scope of our services for this project included a subsurface exploration program. The subsurface exploration program consisted of drilling eighty-one (81) borings and excavating twenty-seven (27) test pits. The depths of the explorations ranging from approximately 2 to 110 feet below existing site grades. The explorations were logged during drilling by graduate geologists and samples were obtained to aid in material classification and for possible laboratory testing. The approximate locations of the explorations are shown on Figure No. 2, Site Map. The locations of the borings were determined in the field using a handheld GPS device. The locations of the explorations should be accurate only to the degree implied by the method used. Results of the explorations are presented in the Appendix.

4.0 SITE CONDITIONS

4.1 Surface

The site is currently vacant with the exception of a boat and RV storage area within the northeastern portion of the site. A large portion of the site consists of a former open-pit mine. Excavations/pits from mine operations are still present at the site, the deepest of which range from approximately 180 to 300 feet in depth (based on topographic data provided to us). Mine tailings and waste rock from mining operations cover much of the site. Some abandoned structures from mining operations remain at the site, including concrete pits and walls. The remainder of the site, particularly its southwestern portion, consists of undeveloped land with varying topographic relief. The site is bound by Lake Mead Parkway to the north and by undeveloped land on all other sides. Site drainage is generally by sheet flow toward the north and west.

4.2 Subsurface

Fill was encountered in all but 3 of the explorations (borings SS-333-18, SS-333-20, and SS-333-32). The fill generally consisted of approximately ½-foot to over 80 feet of various waste rock, mining tailings, gypsum, silty sand, clayey sand, poorly graded sand, silty gravel, silt, and clay. However, due to previous mining operations at the site there could be deeper and/or poorer quality fill in other areas of the site beyond our explorations.

Natural soils at the site generally consisted of loose to very dense silty gravel, silty sand, clayey sand, poorly graded sand, and gypsum, in addition to soft to very stiff clay and silt. Moderately hard to very hard claystone, gypsiferous claystone, siltstone, and sandstone bedrock were encountered in 68 of the explorations. Bedrock was first encountered at depths ranging from ½-foot to 90 feet below existing site grades. The following table summarizes the depths to bedrock where it was encountered in the explorations:

BORING №	DEPTH TO BEDROCK (feet below existing grade)	BORING №	DEPTH TO BEDROCK (feet below existing grade)
B-1	45	SS-333-02	10
B-2	40	SS-333-03	14
B-3	20.5	SS-333-07	10
B-5	15	SS-333-09	12.5
B-7	65	SS-333-11	2
B-8	34	SS-333-14	17.5
B-9	15	SS-333-17	10
B-10	25	SS-333-18	19
B-12	29	SS-333-20	5
B-13	36	SS-333-25	90
B-14	35.5	SS-333-28	5
B-15	27	SS-333-32	25
B-17	24	SS-334-07	3
B-19	48	SS-334-10	42.5
B-21	10	SS-334-10B	17
B-24	5.5	SS-334-15B	25.5
MM-311-16	46	SS-336-12	14
MM-311-18	59	SS-336-15	19
MM-311-19	62	SS-336-29	10
MM-311-21	35	TA-212-03	62
MM-311-25	16	TA-212-04	40
MM-311-27	27	TP-1	5
MM-321-02	21	TP-2	9.5
MM-321-03	31	TP-3	2.5
MM-321-06	15	TP-5	7.5
MM-321-08	17	TP-7	4
MM-321-10	9	TP-8	9
SS-331-02	4	TP-11	7
SS-331-09	31	TP-12	7
SS-331-11	3	TP-14	0.5
SS-332-03	8	TP-15	5.5
SS-332-07	21	TP-16	8.5
SS-332-09	9	TP-18	6.5
SS-333-01	17.5	TP-19	8.5

Laboratory test results indicate that the on-site materials have a low to critical expansion potential. Groundwater was not encountered within the depths explored. The boring logs, test pit logs, and laboratory test results presented in the Appendix should be referred to for more detailed information.

5.0 GEOLOGIC INFORMATION

The site is located southeast of the Las Vegas Valley at the edge of the River Mountains. This location places the site in an area underlain by coarse alluvial deposits and sedimentary bedrock.

The following geologic units have been mapped at the site¹:

Tmcf: Fine-grained, dominantly gypsiferous siltstone and claystone. Locally manganese-rich.

Tsm: Manganiferous sedimentary rocks of the 3 Kids Mine. Gray to black manganese-rich tuff, tuffaceous sandstone and siltstone. Underlies Tmcf.

The nearest mapped fissure zone is approximately 7 miles southwest of the site.² The cumulative evidence indicates that fissures are the result of a subsurface erosional process. The erosional process occurs in tensional fractures at or near the surface in uncemented, relatively fine-grained soils. The nearest mapped fault is approximately $\frac{3}{4}$ -mile southwest of the site.³

Liquefaction is defined as the condition when saturated, loose, finer-grained sand-type soils lose their support capabilities because of excessive pore water pressure which develops during a seismic event. Due to the presence of relatively shallow bedrock and the anticipated depth of groundwater, which is expected to be over 100 feet based on the nearest well log (NDWR Log No. 82441), the potential for liquefaction during a design seismic event should be considered low.

6.0 RECOMMENDATIONS

6.1 General

Our recommendations are based on the assumption that the subsurface conditions are similar to those disclosed by the explorations. If variations are noted during construction or if changes are made in site plan, structural loading, foundation type or floor level, we should be notified so we can supplement our recommendations, as applicable.

The owner must recognize that this site has inherent risks to development due to the expansive nature of the on-site materials. As previously indicated, the on-site materials ranged from having a low to critical expansion potential. Critically expansive materials have the potential to undergo relatively large movements due to increases in moisture content. Materials with critical expansion potentials (greater than 12%) are allowed in fills if they are placed deeper than 5 feet below the bottoms of foundations.

¹ Bell, John W. and Smith, Eugene I., Geologic Map of the Henderson Quadrangle, Nevada, Nevada Bureau of Mines and Geology, Map 67, 1980

² Bell, John W., et. al., 2001, "Las Vegas Valley, 1998 Subsidence Report", Nevada Bureau of Mines and Geology, Open-File Report 01-4, Plate No. 1.

³ Clark County Geographic Information System Management Office (GISMO), 2016

The on-site gypsum should be considered highly soluble. Gypsum and gypsiferous materials should be overexcavated if they occur within 3 feet below the bottoms of foundations. Gypsum and gypsiferous materials may be used in fills deeper than 3 feet below the bottoms of foundations if they are blended with other non-soluble material at a 1 to 1 ratio.

As indicated, there was fill on-site. All of the on-site fill should be considered uncontrolled fill. All uncontrolled fill should be removed and replaced with properly compacted fill. The uncontrolled fill materials can be re-used for controlled fill if the criteria in the Fill Materials section of this report are met.

Chemical test results indicated some of the soils at the site contain chloride concentrations in excess of 500 mg/kg. When post-tensioned foundations are recommended at the site, additional precaution for corrosion protection will be required as per the Post-Tensioning Institute (PTI), Design and Construction of Post-Tensioned Slabs-On-Ground (3rd Edition).

6.2 Foundations

The foundation recommendations presented herein are preliminary. As the development is subdivided, further geotechnical explorations will be required for each subdivision. Lot-by-lot expansion testing will also be necessary for lot-specific foundation recommendations.

If the grading recommendations presented in the Earthwork section of this report are complied with, the proposed structures may be supported by conventional or post-tensioned type foundations. Any proposed retaining walls or block walls may be established on conventional footings. Foundations should be established on properly compacted fill.

Conventional foundations or the thickened edge of post-tensioned foundations should be at least 12 inches wide and the bottom of the foundations should be established at least 18 inches below the lowest adjacent final compacted subgrade (exterior footings) or the top of the finished floor slab (interior footings). Foundations, established as recommended, may be designed to impose a net dead- plus live-load pressure of 2,000 pounds per square foot (psf). The bearing value may be increased by 1,000 psf for each additional 12 inches of embedment, or portion thereof. However, the maximum net bearing value should not exceed 4,000 psf. A one-third increase may be used for wind or seismic loads.

Post-tensioned foundations should be designed for a differential deflection (Δ) of 1 $\frac{3}{4}$ inches between the center and exterior portions of the floor slab (edge lift and center lift) using the Post-Tensioning Institute (PTI), Design and Construction of Post-Tensioned Slabs-On-Ground (3rd Edition) method and Table 1808.6.2 of the Southern Nevada Amendments to the 2018 International Building Code. It should be understood that the PTI post-tensioned design methodology reflected in the Southern Nevada Building Code is in part based on the assumption that soil-moisture changes around and beneath the post-tensioned slabs are influenced only by climatological conditions. Soil-moisture change below foundations and floor slabs is the major factor in damages

relating to expansive soil. The PTI design methodology has no consideration for presaturation, homeowner irrigation, or other nonclimate-related influences on the moisture content of subgrade soils. Therefore, it is important the recommendations presented in the Drainage and Moisture Protection Section of this report be strictly adhered to.

Settlement of the proposed structures, supported as recommended, should be within acceptable limits (less than 1 inch). Differential settlement should be less than ½-inch. However, it should be understood that if expansive soils beneath foundations experience an increase in moisture, expansion/heave could occur and cause additional movement of a structure. Therefore, it is important that recommendations presented in the Drainage and Moisture Protection section of this report be adhered to.

6.3 Site Class

Based on the information presented on the City of Henderson Site Class Map, a Site Class C may be used at this site for seismic design.

The site is located at approximately the following latitude and longitude:

LATITUDE	LONGITUDE
36.0800°	- 114.9200°

A search of the USGS Earthquake Hazards Program’s ASCE 7-16 data, as published by the Applied Technology Council (hazards.atcouncil.org), indicated the following spectral acceleration parameters for the location indicated above and a Site Class C:

MAPPED ACCELERATION PARAMETERS	
S_s	0.482 g
S₁	0.162 g
DESIGN ACCELERATION PARAMETERS	
S_{DS}	0.418 g
S_{D1}	0.162 g

6.4 Lateral Earth Pressures and Retaining Walls

For soils above any free water surface, with level backfill and no surcharge loads, we recommend the following equivalent fluid pressures and coefficient of friction:

- Active 35 pcf
- At-Rest 55 pcf
- Passive 250 pcf
- Coefficient of Friction 0.40
- Unit Weight of Backfill (Native Soils) 135 pcf

Notes:

1. Active pressure assumes unrestrained (cantilever) wall and assumes no loading from heavy compaction equipment.
2. Passive pressure should not exceed a maximum of 3,000 psf. A one-third increase may be used for wind or seismic loads.
3. The passive pressure and the frictional resistance of the soils may be combined without reduction in determining the total lateral resistance.

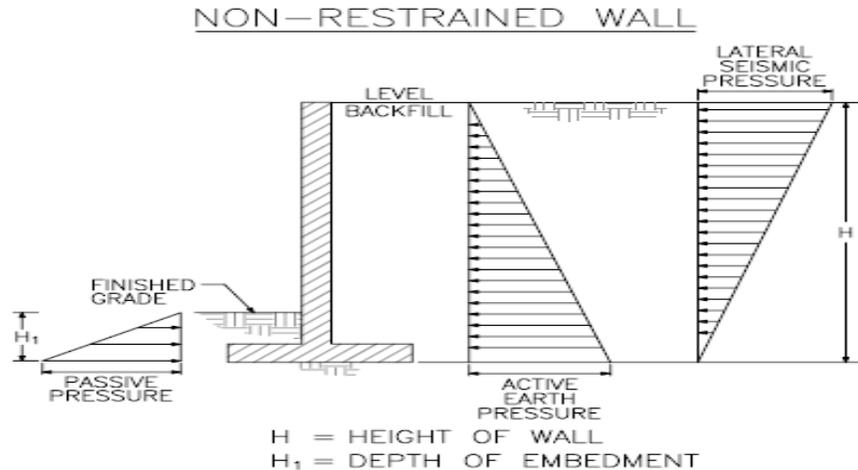
If required by the 2018 IBC, the lateral seismic pressure acting on an unrestrained wall can be estimated by the method presented in Section 1610.1.1 of the Southern Nevada Amendments to the 2018 IBC, where the dynamic (seismic) lateral thrust, ΔP_{AE} , per linear foot of wall may be determined as follows:

$$\Delta P_{AE} = \frac{3}{8}(k_h)H^2\gamma$$

- k_h is equal to $S_{DS}/2.5$
- H is the height of the wall in feet
- γ is equal to the unit weight of the backfill material, in pcf

The resultant dynamic force acts at a distance of 0.6H above the base of the wall. This equation applies to level backfill and walls that retain no more than 15 feet.

Where the design includes unrestrained walls, above any free water, with level backfill and no surcharge loads, we recommend the wall be designed to resist an earth pressure with the distribution shown below:



Any surcharge from adjacent loadings should be added to the retaining wall pressures using a factor of 0.30 for non-restrained walls and 0.5 for restrained walls. As indicated, the aforementioned pressures assume that there will be no build-up of hydrostatic pressure. Therefore, if walls will be subject to saturated conditions, we recommend weep holes (if practical) and a wall drainage system. The wall drainage may consist of a minimum of 2 cubic feet of drain rock per foot of length of retaining wall wrapped in filter fabric, Mirafi 140N or equivalent, placed at the base of the wall and discharge to an appropriate outlet. Drain rock should consist of clean, uniformly sized gravel, $\frac{3}{4}$ -inch in nominal size. The structural fill immediately behind retaining walls (6 to 12 inches) should be granular and free draining. The upper 2 feet of backfill should consist of compacted native soils. As an option, a prefabricated drain may be used behind walls. The wall drainage system is an integral part of the retaining wall design. The retaining wall designer is ultimately responsible for the retaining wall design and shall ensure that the above recommended drainage system is compatible with the design of the wall or select a different drainage system at their discretion. All walls below grade should be waterproofed or at least dampproofed.

Fill against foundations, grade beams and retaining walls should be properly placed and compacted. Backfill should be mechanically compacted in layers (12 inches maximum thickness); flooding should not be permitted. Backfill within a lateral distance equal to the height of retaining walls should be compacted to at least 90 percent of the maximum dry density obtainable by the ASTM D1557 method. Backfill outside this zone should be compacted as outlined in the Fill Placement and Compaction section of this report. Care should be taken when placing backfill so as not to damage the walls. Compaction of each lift adjacent to walls should be accomplished with hand-operated tampers or other lightweight compactors. Over-compaction may cause excessive lateral earth pressures which could result in wall movements. Retaining walls should not be backfilled until the concrete or masonry has reached an adequate strength as specified by the wall designer.

6.5 Permanent Slopes

6.5.1 Soil Slopes

Earthwork activities to construct permanent soil slopes at the site should be done in accordance with the following:

- Cut and/or fill slopes should be constructed no steeper than 2 horizontal to 1 vertical.
- If any slope exceeds 30 feet in height, the slope design should include mid-height benches to intercept surface drainage and divert flow from the slope face.
- The surfaces of soil slopes should be compacted (not necessary where rock is exposed) to the minimum specifications recommended in the Earthwork section of this report and until the slopes are stable and there are no loose soils on the slopes. Alternatively, fill slopes could be constructed by over-filling and cutting back to expose fully compacted soil.
- The ground surface adjacent to the top of slopes should be graded to drain away from the slopes. Any required erosion control measures should be provided for all slopes as soon as possible after grading.

6.5.2 Rock Slopes

Rock cut slopes should be constructed no steeper than 0.5 horizontal to 1 vertical and should be evaluated by the geotechnical engineer on a case-by-case basis as grading progresses. Any existing rock slopes shall be evaluated at a later date.

Any excavated rock cut slope faces should be scaled to remove loose material from the face. It is our recommendation that a qualified slope contractor be contacted to provide permanent slope stabilization recommendations and plans.

For development of structures adjacent to rock slopes, the area immediately adjacent to the slopes and 10 feet beyond should be inspected by the geotechnical engineer of record during slope excavation. Scaling and/or stabilization of slopes may be required prior to construction of developments.

The ground surface adjacent to the top of bedrock slopes should be graded to drain away from the slopes. Any required erosion control measures should be provided for all slopes as soon as possible after grading.

6.6 Earthwork

6.6.1 General

- All earthwork should be performed in accordance with the guidelines presented in Chapter 18 of the 2018 IBC and the Southern Nevada Amendments to the 2018 IBC, except where specific recommendations are presented in this report. It is recommended that contractors perform their own reconnaissance of the site. If the contractors have any questions regarding site conditions, site preparation or recommendations in this report, they should contact a representative of Centurion Consultants.

6.6.2 Site Clearing

- Strip and remove existing vegetation, debris, uncontrolled fill, disturbed natural soils, and other deleterious materials from proposed building areas, adjacent walks, slabs, and areas to be paved. Excavations should extend at least 5 feet beyond the areas to be improved in plan view. Uncontrolled fill is defined as any existing fill that was not properly placed, observed, and tested.
- All exposed surfaces should be free of mounds and depressions which could prevent uniform compaction.
- If unexpected fills or abandoned structures/improvements are encountered during site clearing, such features should be removed and the excavation thoroughly cleaned and backfilled. All excavations should be observed by the geotechnical engineer prior to backfill placement.
- Demolition of existing structures/improvements should include removal of any foundation system and utilities. Any excavations as a result of demolition and removal should be properly filled.

6.6.3 Excavation

- It is anticipated that excavation of the on-site natural soil deposits for the proposed project can be accomplished with conventional earthmoving equipment.
- Excavations penetrating moderately hard bedrock should be able to be excavated using heavy-duty equipment. Excavations penetrating hard or very hard bedrock will require special consideration where they are to be performed.
- Contractors should satisfy themselves as to the hardness of materials and equipment required.
- Temporary unsurcharged construction excavations should be sloped or shored. Temporary slopes should not be steeper than 1 horizontal to 1 vertical. Slopes may need to be flattened

depending on conditions exposed during construction. Exposed slopes should be kept moist (but not saturated) during construction. If there is not enough space for sloped excavations, shoring should be used. Traffic and surcharge loads should be kept back at least 10 feet from the top of the excavation.

- Excavation, trenching and shoring should be conducted in accordance with the U.S. Department of Labor Occupational Safety and Health Administration's (OSHA) Excavation and Trenching Standard, Title 29 of the Code of Federal Regulation (CFR), Part 1926.650. Safety of construction personnel is the responsibility of the contractor.

6.6.4 Overexcavation

- As indicated, the on-site gypsum should be considered highly soluble. Gypsum and gypsiferous materials should be overexcavated if they occur within 3 feet below the bottoms of foundations. Gypsum and gypsiferous materials may be used in fills deeper than 3 feet below the bottoms of foundations if they are blended with other non-soluble material at a 1 to 1 ratio.
- Some of the on-site materials, particularly the native claystone, are critically expansive. Materials with critical expansion potentials (greater than 12%) are allowed in fills if they are placed deeper than 5 feet below the bottoms of foundations.
- If blasting is performed, we recommend a minimum of 7 feet (assumes a blast depth of 10 ft.) of blasted material be excavated, and as necessary, to ensure that there is at least 3 feet of compacted fill below foundations. The overexcavation may be terminated before the aforementioned depth if competent undisturbed natural materials are encountered. In areas where all blasted material is not removed, we recommend that the remaining blasted material be heavily watered and compacted using at least a 10-ton steel vibratory roller.
- Building pads with fill differentials (below foundations) that exceed 3 feet should be avoided. Therefore, building pads with this condition should be overexcavated so that the fill differential beneath foundations does not exceed 3 feet.

6.6.5 Fill Materials

- During grading, it is anticipated that material excavated on the site and placed in mass-graded fills will likely fall into one of two categories: (1) soil fill or (2) soil-rock fill. These fill categories are differentiated by the size of the fill material.
- Soil fills are fills where the majority of the material (85 to 90 percent) is 6 inches or less in the maximum dimension, a maximum size of 12 inches in the maximum dimension, and comprised of at least 40 percent by weight (of the minus 6-inch material) of material finer than ¾-inch in size.

- On-site soils meeting the following criteria, as determined by visual observation by the 3rd party inspector, may be used in required soil fills:
 - the majority of the material (85 to 90 percent) is 6 inches or less in maximum dimension.
 - the minus 6-inch material is comprised of at least 40 percent by weight of material finer than ¾-inch in size.
 - the material is free of almost all debris and organic matter.
- Soil-rock fill should contain a sufficient matrix of soil to allow for compaction of soil around oversized material and to ensure that there are no nesting or voids present.
- In general, material greater than 12 inches in diameter should not be used in fills within 5 feet below the bottom of the footing within building pad areas.
- Fill containing material greater than 6 inches in diameter should not be used in any utility trenches, behind retaining walls or against foundations or grade beams.
- The fine-grained tailings from the settling ponds may be placed in the bottom of the central excavation/pit if they are blended with coarse-grained materials (i.e., waste rock) at a 1 to 1 ratio. This ratio may need to be reevaluated based on conditions encountered in the field.
- Imported material should be compatible with on-site soils in addition to being suitable for its intended use. All imported materials should be approved by the geotechnical firm providing testing during construction prior to importing. In general, imported soils should have an expansion potential of less than 12.0%, a maximum solubility of 1.0%, a sulfate content of less than 0.50%, and a sodium sulfate content of less than 0.20%. Imported soils with expansion potentials greater than 12% are allowed in fills if they are placed deeper than 5 feet below the bottoms of foundations. If post-tensioned slabs are used, then imported soils should also have a chloride content of less than 500 mg/Kg.
- Select free draining granular materials should be used as backfill immediately behind retaining walls (6 to 12 inches). As an option, a prefabricated drain may be used and should be installed in accordance with the manufacturer's recommendations.

6.6.6 Fill Placement and Compaction

- After performing required excavations, the exposed soils should be carefully observed to verify removal of all unsuitable deposits. Exposed soils should then be scarified to a depth of 6 inches (not necessary if rock exposed), watered as necessary, and compacted as recommended.
- Fill materials should be placed on a horizontal plane unless otherwise accepted by the geotechnical engineer.

- Where the slope ratio of the original ground is steeper than 5 horizontal to 1 vertical, the slope should be benched to create near-level areas for the placement of fill. The maximum allowable height of the bench is 3 feet. Bench excavation should be continued to the top of the existing slope in structural fill areas or the daylight (cut/fill) contact.
- All required fill should be placed in loose lifts. The lift thickness will depend on the size of the material used.
- Soil fills should be compacted to the following:

MATERIAL	PERCENT COMPACTION (ASTM D1557)	MOISTURE CONTENT
Fine – grained	90 minimum	optimum (minimum)
Granular	95 minimum	-2 percent of optimum (minimum)

Note: For the purpose of compaction, fine-grained soils are soils with at least 30 percent passing the No. 200 sieve and/or soils having an expansion greater than 4 percent.

All fill placed deeper than 5 feet below final grade should be compacted to a minimum of 95 percent at a moisture content of optimum or greater.

Street/pavement subgrade and retaining wall backfill only need to be compacted to a minimum of 90 percent.

Materials with an expansion potential greater than 12% must be placed deeper than 5 feet below the bottoms of footings.

- Clayey soils should not be allowed to dry out such that cracking occurs during or after grading. Sufficient moisture contents should be maintained, to prevent cracking, at least until foundations, floor slabs, flatwork and pavements are constructed. Any significantly dried or cracked soils could be wetted until they reach acceptable moisture contents or they could be excavated and replaced with acceptable properly compacted fill.
- Structural fill should be observed and tested as necessary to determine compliance with the compaction requirements presented in this report. In general, one compaction test should be performed for approximately every 2,000 cubic yards of soil fill, one for one foot of soil fill placed, or change in material.
- The layer thickness of soil-rock fill shall not exceed one and one-third times the vertical dimension of the maximum size material.

- Heavy rollers, vibrators, or other heavy compaction equipment shall compact each soil-rock fill layer full width with a minimum of three complete passes for each layer. Compaction should be done in a longitudinal direction along the fill layer.
- Concrete demolition debris may be utilized in fills if there is no rebar protruding from individual pieces of concrete. Concrete particles shall be treated as rock and may be used in soil fill or soil-rock fill depending on the size of the particles. Particles up to 5 feet in vertical dimension may be used at depths of greater than 10 feet below finished pad grade, particles up to 2 feet in vertical dimension may be used at depths of greater than 5 feet below footings. No concrete debris shall be used at depths above 5 feet below footings.
- Subsequent layers of fill should not be placed until the previous layer of fill is compacted to the degree that no further appreciable deflection is evidenced under the action of the compaction equipment.
- Soil-rock fill should be heavily watered.
- All soil-rock fill placements should be continuously observed during placement by representatives of Centurion. All soil-rock fill that is placed should be treated as structural fill. No assumptions should be made as to where structures will be located laterally.
- Soil-rock fill is not allowed within 5 feet below foundation bottoms for any structure.

6.7 Restoring Mine Pits

The three deep mine pits will require special grading procedures to restore. We understand that the current plan is to place alternating lifts of tailing and waste rock. Depending on the moisture content of the tailings it may be difficult to compact the tailings layers. We recommend that the contractor be prepared to blend the tailings and waste rock if compaction difficulties occur. An initial blending ratio of one-part tailings to one-part waste rock may be used. However, this ratio may be adjusted in either direction, based on the performance of the blended material once construction begins. The pit filling operations should be monitored on a continuous basis by a third-party inspector with a G-B designation by the Clark County Building Department.

Based on the relatively fine-grained nature of the tailings material and the depths of fill being approximately 300 feet, we anticipate total settlement of the fill to be on the order of several feet. Most of the settlement will occur during construction as the weight of fill is progressively increased. Post construction settlement of one half to one foot are anticipated. As such, we recommend that settlement markers be installed and monitored on at least a weekly basis by surveying the elevation of the markers. We recommend one settlement marker for every acre of surface area above the pits. We recommend that the markers be protected from being disturbed by continued construction activities. We estimate that it may take up to 6 months for the settlement to drop to a slow enough rate for construction to continue. Based on the possibility for long-term creep

settlement of the tailing fill, we recommend that the areas above the pits be reserved for parks or similar appurtenances that will not be damaged by expected long term movement.

6.8 Pavement

The pavement area subgrade should be properly prepared as outlined in the Earthwork section of this report before placing any asphalt or base materials. Proper drainage of the paved areas should be provided to increase the pavement life. In addition, pavements must be maintained for durability and integrity during their life. Therefore, periodic seal coating, crack sealing, and/or patching may be required.

Based on the soil classifications and assumed traffic volumes, the following minimum preliminary pavement sections are recommended for on-site paved areas:

TRAFFIC AREA	ASPHALT (Inches)	TYPE II BASE COURSE (Inches)
Automobile Parking	2.0	7.0
Main Corridors and Truck Access	3.0	10.0

Based on our experience, the on-site soils should have an R-value on the order of 30. Therefore, based on the Pavement Structure Design Guideline Chart (DWG. Nos. 200 and 200.1) in the Uniform Standard Drawings for Clark County Area, Nevada, the following preliminary pavement sections will be applicable:

ROADWAY TYPE	PAVEMENT SECTION (Inches)	
	ASPHALT CONCRETE	TYPE II BASE
Residential	2.5	6.5
Minor Collector	3.5	7.5
Major Collector	4.5	13.0
Arterial	5.5	17.5

As indicated, all pavement sections presented are preliminary. On-site pavement sections will be dependent upon the actual soil conditions encountered at subgrade after grading. In addition, the City of Henderson will require that final street sections be based on R-value tests performed at subgrade. Therefore, final pavement sections may vary depending on those R-value test results.

Asphalt and base course materials and compaction should meet the criteria set forth in the Uniform Standard Specifications for Public Works' Construction, Off-Site Improvements, Clark County Area, Nevada. Subgrade should be compacted to a minimum of 90 percent (ASTM D1557). Field and laboratory testing of asphalt and base materials should be performed to determine whether specified requirements have been met.

The performance of the pavement can be enhanced by minimizing excess moisture which can reach the subgrade soils. The following recommendations should be followed, where possible:

- Site grading at a minimum 2% grade away from the pavements.
- Compaction of any utility trenches for landscaped areas to the same criteria as the pavement subgrade.
- Landscaped areas should have cutoff walls/moisture barriers adjacent to pavement areas to minimize or prevent moisture migration to subgrade soils.
- Consideration should be given to using "desert" landscaping and/or minimizing watering to help prevent surface runoff.
- Placing compacted backfill against the exterior side of curb and gutter.

6.9 Drainage and Moisture Protection

Foundation soils should generally not be allowed to become saturated during or after construction, except when necessary to increase moisture contents prior to construction. Infiltration of water into foundation or utility excavations should be prevented during construction. Utility lines should be properly installed and the backfill properly compacted to avoid possible sources for subsurface saturation.

Positive drainage away from the buildings should be provided during construction and maintained throughout the life of the buildings. Any downspouts, roof drains or scuppers should discharge into splash blocks or extensions and away from the buildings. Backfill against footings, exterior walls, and in utility trenches should be properly compacted and free of all construction debris to reduce the possibility of moisture infiltration.

As previously indicated the soils are expansive. Performance of the foundation system recommended in this report is dependent on the ability to keep moisture from penetrating the soils below foundations and slabs. Therefore, we recommend the following:

- Positive drainage should be maintained away from the buildings. Positive drainage of 5% minimum shall be maintained for areas adjacent to the buildings that are not covered by concrete or asphalt. Areas where concrete or asphalt abut the buildings should be sloped a minimum of 2% away from the buildings. Positive drainage of 1% minimum shall be maintained for areas adjacent to block walls. Positive drainage should be maintained for a distance of 10 feet. If physical obstructions or lot lines prohibit 10 feet of horizontal distance, the slope should be provided to an approved alternate method of drainage.

- No landscaping or sprinklers should be allowed within 5 feet of the buildings or block walls. If landscaping or sprinklers are placed within this area, they should be in sealed planters.
- Landscape watering should be kept to a minimum.

It should be understood that if the above recommendations are not followed there would be an increased risk/potential for increasing moisture below foundations and slabs which could result in additional movement and distress to structures and slabs.

6.10 Floor Slabs

If grading recommendations are complied with, concrete floor slabs may be supported on a 4-inch layer of Type II. If the potential for a damp floor slab is a concern, moisture protection should be provided by a relatively impervious vapor barrier/retarder placed beneath interior slabs. The vapor barrier/retarder should be a Class A vapor barrier at least 10 mils in thickness, meeting the requirements of ASTM E1745, and should conform to and be placed in accordance with the requirements of the project structural engineer or architect. If the concrete is to be placed directly on Type II or sand, the Type II or sand should be moistened (but not saturated) prior to placement of concrete.

Recommendations presented by the American Concrete Institute (ACI 302) for slabs-on-grade should be complied with for all concrete placement and curing operations. Improper curing techniques and/or excessive slump (water-cement ratio) could cause excessive drying/shrinkage resulting in random cracking and/or slab curling. Concrete slabs should be allowed to cure adequately before placing vinyl or other moisture sensitive floor coverings.

6.11 Corrosivity

Based on test results and Table 19.3.1.1 of ACI 318-14 Section 19.3, the on-site soils classify as having a **S2** sulfate exposure. Please refer to Table 19.3.2.1 for concrete requirements by exposure class.

Consideration should be given to providing protection to buried metal pipes or use of nonmetallic pipe where permitted by local building codes. Non-corrosive backfill, protective coatings and wrappings, sacrificial anodes, or a combination of these methods could be considered. It should be understood that Centurion personnel are not experts regarding corrosion and/or corrosion protection and that we recommend a "Corrosion Engineer" be consulted for actual recommendations regarding the necessity and/or method of cathodic protection.

7.0 OTHER SERVICES

Centurion Consultants should be retained to provide a general review of final design plans and specifications in order that grading and foundation recommendations may be interpreted and implemented. In the event that any changes of the proposed project are planned, the conclusions

and recommendations contained in this report should be reviewed and the report modified or supplemented as necessary.

Centurion Consultants should also be retained to provide services during excavation, grading, foundation and construction phases of work. Observation of foundation excavations should be performed prior to placement of reinforcing and concrete to confirm that satisfactory bearing materials are present. Field and laboratory testing of concrete and soils should be performed to determine whether applicable requirements have been met. In addition, the level of special inspection required for soils should not be less than **4b** as specified in the Southern Nevada Amendments to the 2018 IBC, Table 1705.6.

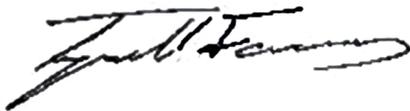
The analyses and recommendations in this report are based in part upon data obtained from the field exploration. The nature and extent of variations beyond the locations of the explorations may not become evident until construction. If variations then appear evident, it may be necessary to re-evaluate the recommendations of this report.

8.0 CLOSURE

Our professional services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable geotechnical engineers practicing in this or similar localities. No warranties, either expressed or implied, are intended or made. We prepared this report as an aid in design of the proposed project. This report is not a bidding document. Any contractor reviewing this report must draw his own conclusions regarding site conditions and specific construction techniques to be used on this project.

Centurion Consultants

Prepared by:



Tyrell Farnes, P.E.
Business Unit Manager

Reviewed by:



Brian Eller, P.E.
Principal

APPENDIX

Site Exploration

The subsurface exploration program consisted of drilling eighty-one (81) borings and excavating twenty-seven (27) test pits. The depths of the explorations ranging from approximately 2 to 110 feet below existing site grades. Borings were drilled using sonic and hollow stem auger drill rigs.

Soils were logged during drilling by graduate geologists and engineers, and samples were obtained to aid in material classification and for possible laboratory testing. Exploration logs are presented on Plates 1 through 108. The number of blows required to drive a 2-inch diameter sampler (SPT) 12 inches using a 140-pound weight dropped 30 inches are shown on the logs. The soils are generally classified by the Unified Soil Classification System. Plate 109 presents an explanation of material classifications used in this report.

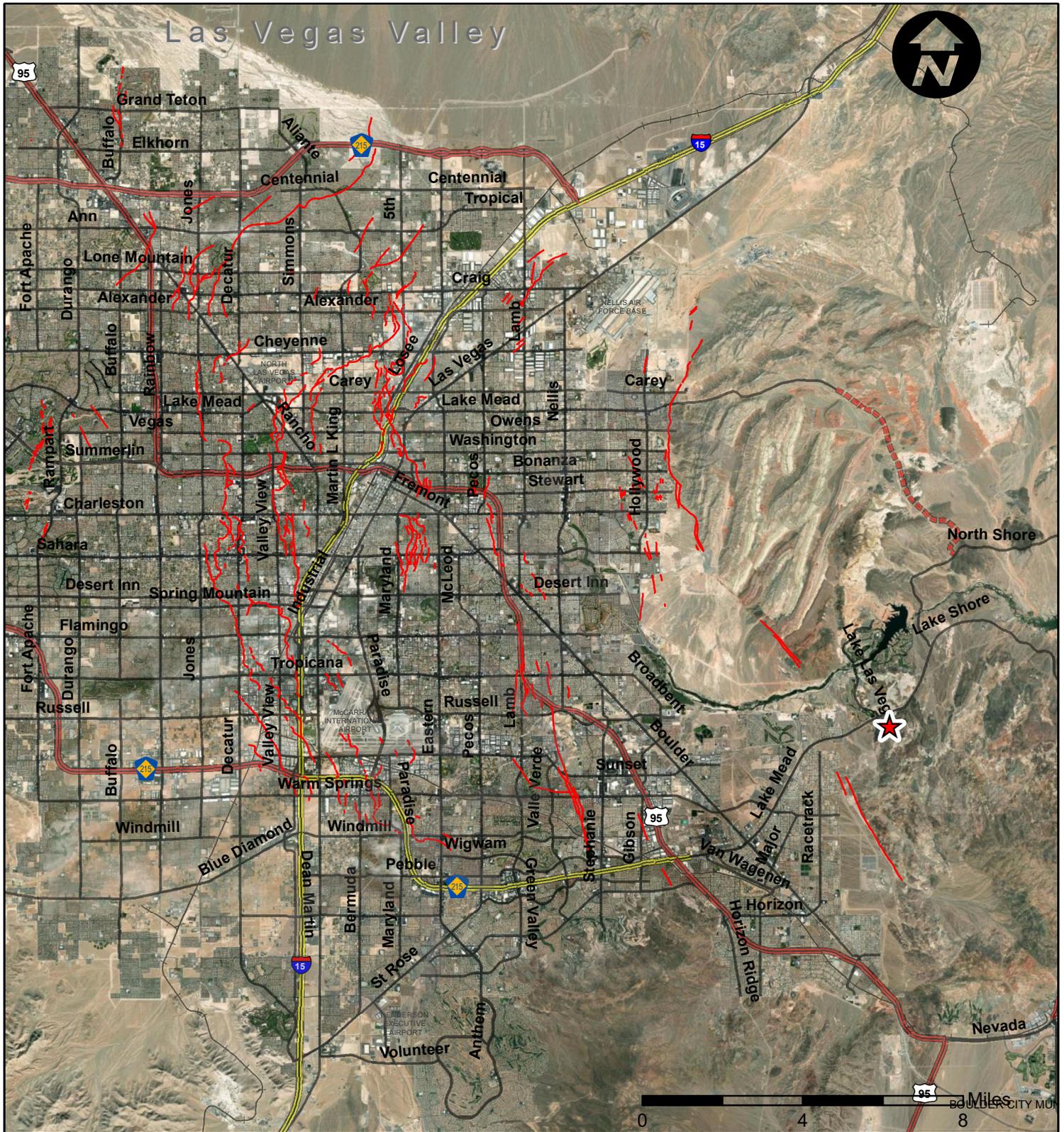
Laboratory Testing

Laboratory testing was performed on selected samples of on-site soils. Tests were performed in general accordance with applicable ASTM or local standards.

Expansion tests were performed on remolded samples of the on-site materials. The tests were performed from oven-dried moisture content to near saturated condition with a 60 psf surcharge load. The test results are presented on Plate 110.

Sieve analyses and Atterberg Limits were performed to determine the grain-size distribution and soil classification of representative materials. The test results are presented on Plates 111a through 111ay.

Chemical tests were performed on representative samples by Silver State Analytical Laboratories. Tests were performed to determine the percent chloride, water soluble sodium, sulfate and sodium sulfate, as well as the soil solubility. Test results are presented on Plates 112a through 112ap.



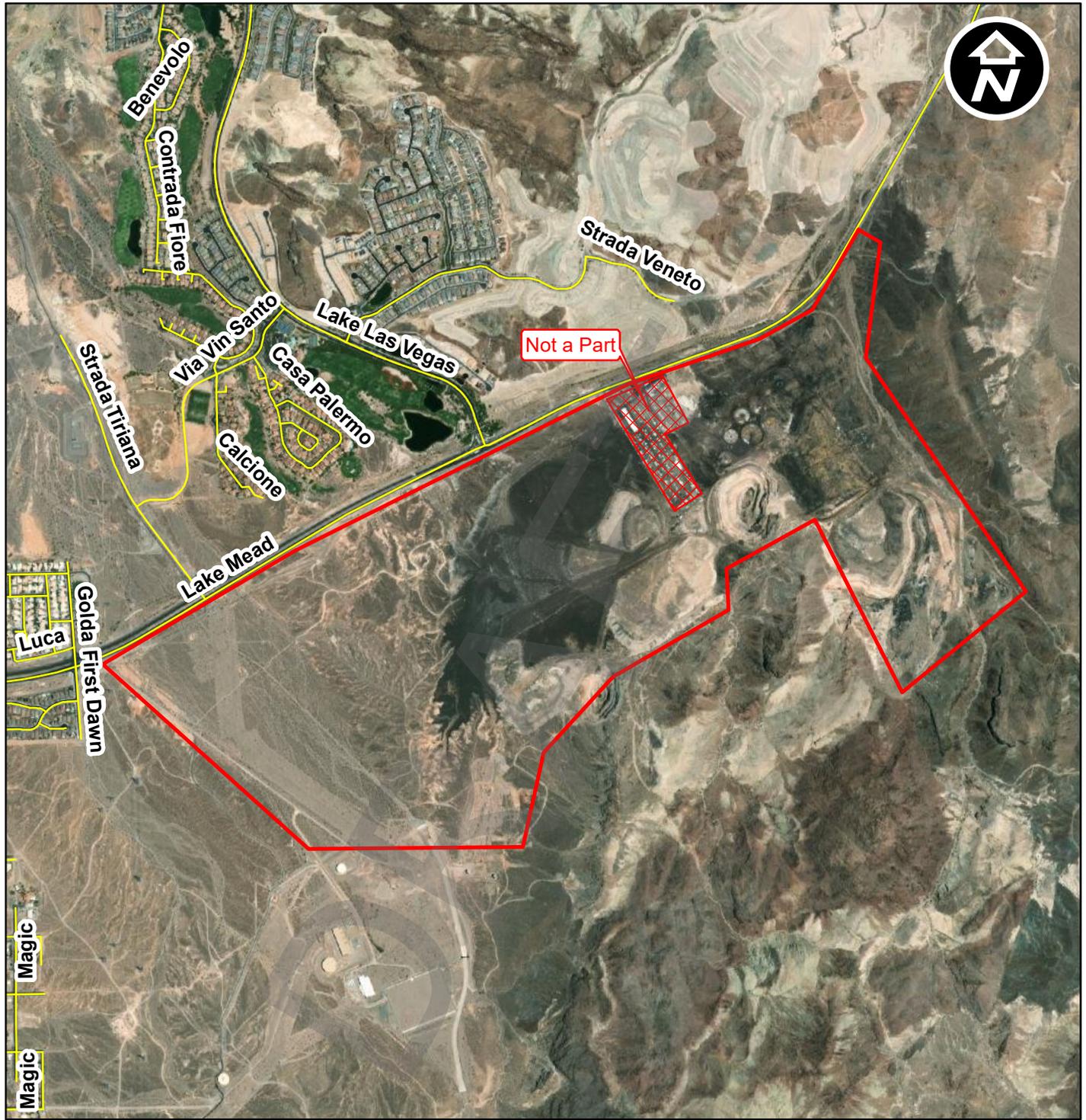
Legend

★ Approximate Project Site

— Las Vegas Faults (CCBD GISMO, 2016)

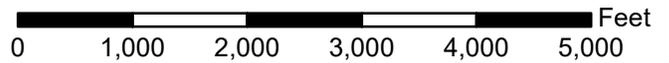
The presented layers were obtained from various sources including ESRI, USGS, USDA, CCBD GISMO, CCFCD, GIS User Community among others. The GIS information is presented for reference only. No warranties, either expressed or implied, are intended or made. If you have any questions regarding this information, please contact Centurion.

CENTURION CONSULTANTS	PROJECT: Three Kids Mine Site Mixed-Use Development	VICINITY MAP	
	CLIENT: Pulte Homes	PROJECT NO: 22004	FIGURE NO: 1



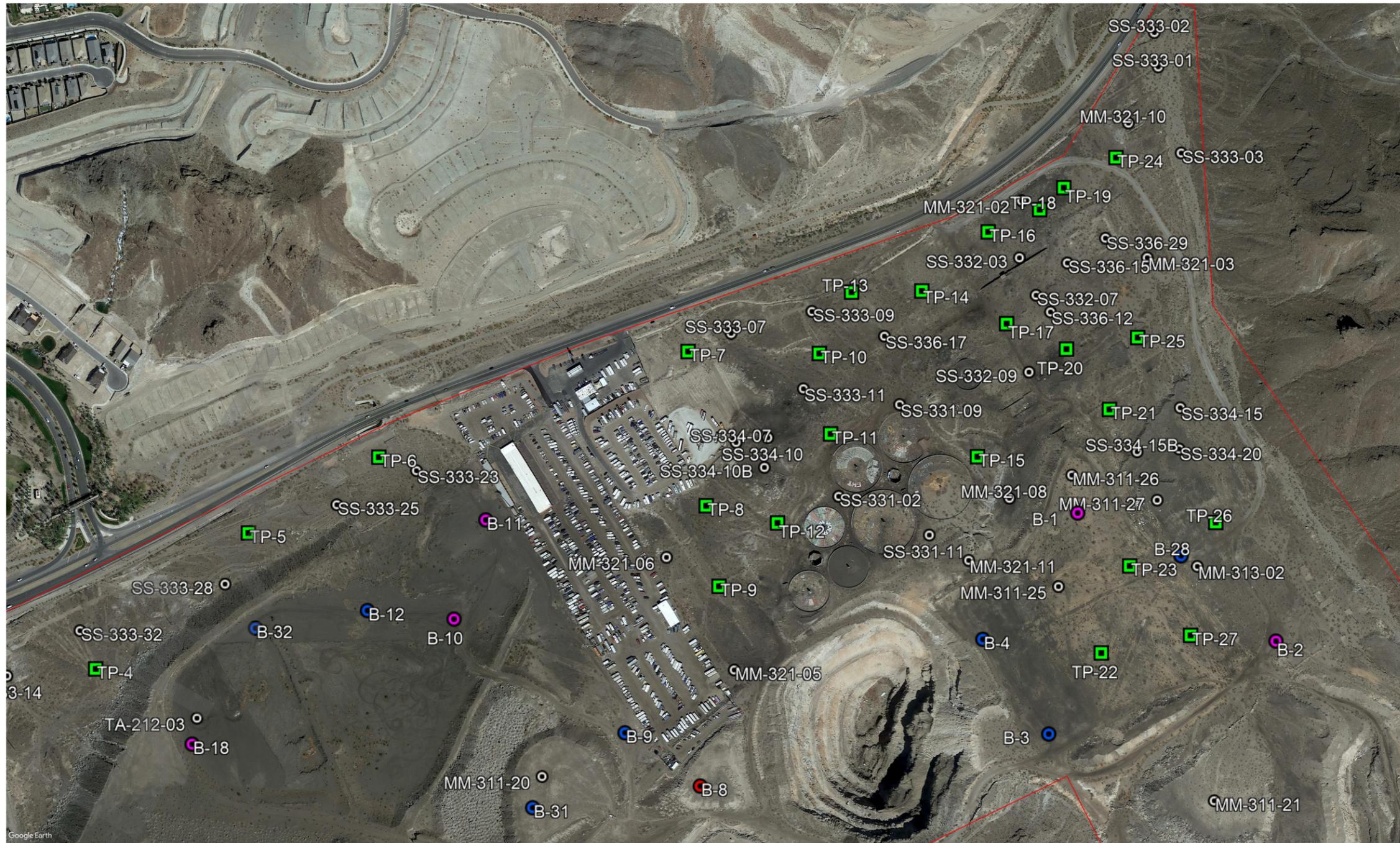
Legend

Approximate Project Site Boundary



The presented layers were obtained from various sources including ESRI, USGS, USDA, CCBD GISMO, CCFCD, GIS User Community among others. The GIS information is presented for reference only. No warranties, either expressed or implied, are intended or made. If you have any questions regarding this information, please contact Centurion.

CENTURION CONSULTANTS	PROJECT: Three Kids Mine Site Mixed-Use Development	SITE MAP OVERVIEW	
	CLIENT: Pulte Homes	PROJECT NO: 22004	FIGURE NO: 2

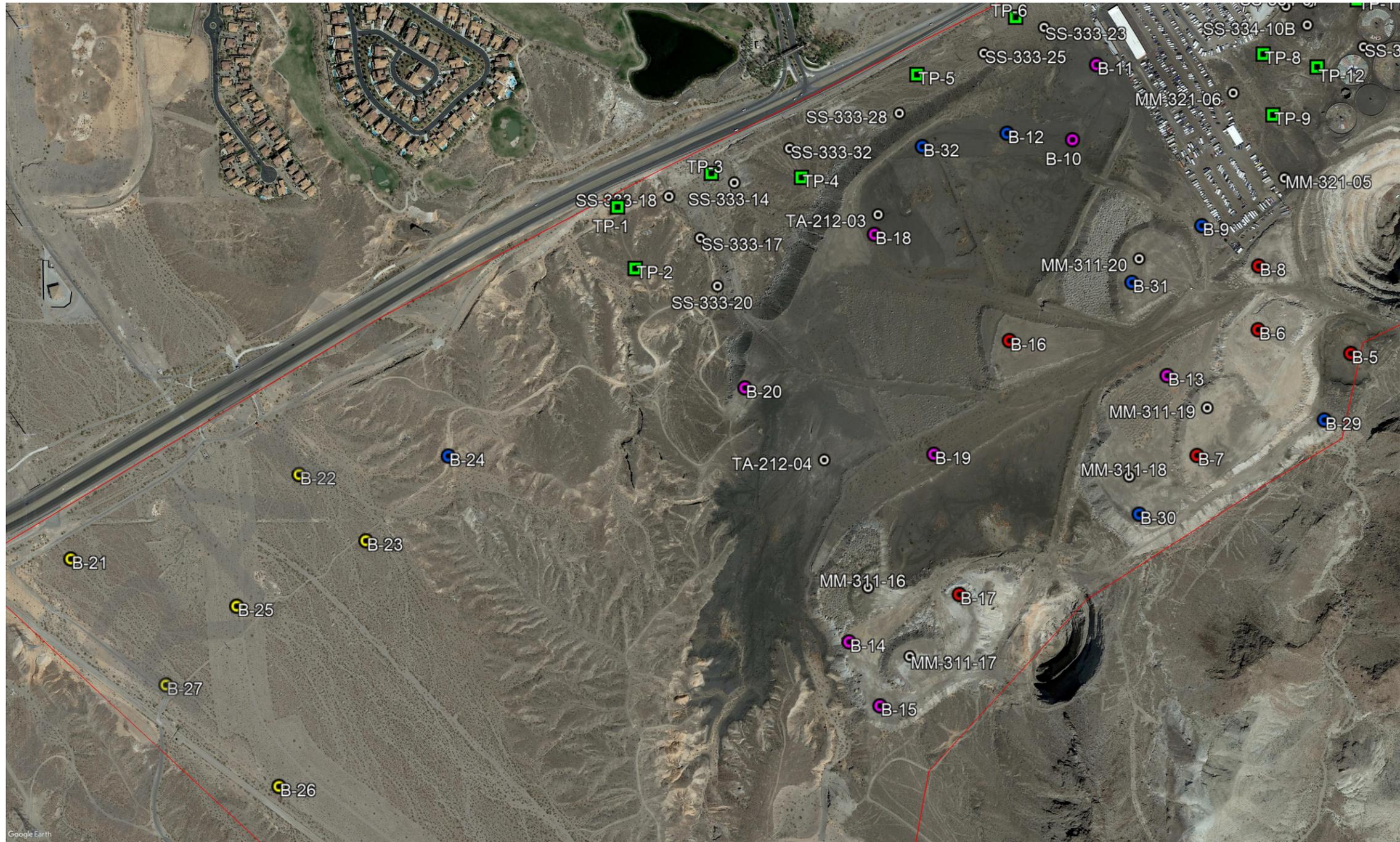


Legend

- Approximate Project Site Boundary
- Approximate Boring Location
- Approximate Test Pit Location



CENTURION CONSULTANTS	PROJECT: Three Kids Mine Site Mixed-Use Development	EXPLORATION MAP - EAST	
	CLIENT: Pulte Homes	PROJECT NO: 22004	FIGURE NO: 2a



Legend

- Approximate Project Site Boundary
- Approximate Boring Location
- Approximate Test Pit Location



CENTURION CONSULTANTS	PROJECT: Three Kids Mine Site Mixed-Use Development	EXPLORATION MAP - WEST	
	CLIENT: Pulte Homes	PROJECT NO: 22004	FIGURE NO: 2b

BORING LOG B-1

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, brown	
					1				
					2				
					3				
					4				
					5				
		SPT		17	6				
					7				
					8				
					9				
					10				
		SPT		10	11				
					12				
					13				
					14				
					15			-FILL: Sandy SILT, slightly moist, light gray	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 1

BORING LOG B-1

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[Sample]	16	16	FILL	[Cross-hatch]	-FILL: Sandy SILT, slightly moist, light gray	
		SPT	[Sample]	41	17		[Cross-hatch]		
		SPT	[Sample]	34	18		[Cross-hatch]		
		SPT	[Sample]	23	19		[Cross-hatch]		
		SPT	[Sample]	23	20		[Cross-hatch]		
		SPT	[Sample]	23	21		[Cross-hatch]		
		SPT	[Sample]	23	22		[Cross-hatch]		
		SPT	[Sample]	23	23		[Cross-hatch]		
		SPT	[Sample]	23	24		[Cross-hatch]		
		SPT	[Sample]	23	25		[Cross-hatch]		
		SPT	[Sample]	23	26		[Cross-hatch]		
		SPT	[Sample]	23	27		[Cross-hatch]		
		SPT	[Sample]	23	28		[Cross-hatch]		
		SPT	[Sample]	23	29		[Cross-hatch]		
		SPT	[Sample]	23	30		[Cross-hatch]		
		SPT	[Sample]	23	31		[Cross-hatch]		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		02/22/2022	2 of 4
		PROJECT NO.:	PLATE NO.:
		22004	1

BORING LOG B-1

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Sandy SILT, slightly moist, light gray	
					32				
					33				
					34				
		SPT		63/11"	35				
					36			GYPSUM, dry, light gray-white	V. Dense
					37				
					38				
					39				
		SPT		50/5"	40				
					41				
					42				
					43				
					44				
		SPT		50/2"	45			CLAYSTONE, dry, brown	Mod. Hard
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 1

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-1

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		50/1"	47		[Hatched Pattern]	CLAYSTONE, dry, brown	Mod. Hard
					48		[Hatched Pattern]		
					49		[Hatched Pattern]		Hard
					50		[Hatched Pattern]	Bottom of Boring at 50.1 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 1

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-2

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, brown	
					1				
					2				
					3				
					4				
		SPT		11	5				
					6				
					7				
					8				
					9				
		SPT		35	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 2

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-2

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		31	16	FILL		FILL: Silty SAND with gravel, slightly moist, brown	
		SPT		23	20				
		SPT		29	25				
		SPT		11	30				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 2

BORING LOG B-2

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Silty SAND with gravel, slightly moist, brown	
		SPT		43	32				
					33				
					34				
		SPT			35				
					36				
					37				
					38				
					39				
		SPT		83/10"	40			SILTSTONE, decomposed, dry, light gray	Mod. Hard
					41				
					42				
					43				
					44				
		SPT		55	45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 2

BORING LOG B-2

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		15	47 48 49 50 51			SILTSTONE, highly decomposed, dry, light gray	Mod. Hard
								Bottom of Boring at 51.5 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 2

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-3

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Sandy SILT, slightly moist, black and brown	
					1				
					2				
					3				
					4				
		SPT		6	5				
					6				
					7				
					8				
					9				
		SPT		9	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 3

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-3

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		26	16	FILL		FILL: Sandy SILT, slightly moist, black and brown	
		SPT		80/8"	20				
		SPT		26	25			SILTSTONE, highly decomposed, dry, light gray-brown	Mod. Hard
		SPT		50/4"	30				
Bottom of Boring at 30.3 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 3

BORING LOG B-4

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Sandy SILT, slightly moist, black	
					1			-brown	
					2				
					3				
					4				
		SPT		7	5				
					6				
					7				
					8				
					9				
		SPT		7	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 4

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-4

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		38	16	FILL		FILL: Sandy SILT, slightly moist, black	
		SPT		10	20				
		SPT		13	25				
		SPT		26	29				
Bottom of Boring at 30 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/22/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 4

BORING LOG B-5

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, black and gray	
					1				
					2				
					3				
					4				
					5				
		SPT		32	6				
					7				
					8				
					9				
					10				
		SPT		18	11				
					12				
					13				
					14				
					15			GYPSIFEROUS CLAYSTONE, dry, brown	Mod. Hard

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 5

BORING LOG B-5

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	69/11"	69/11"	16			GYPSIFEROUS CLAYSTONE, dry, brown	Mod. Hard
		SPT	69/9"	69/9"	17				
		B	69/9"		18				
		B	69/9"		19				
		B	69/9"		20				
		B	69/9"		21				
		B	69/9"		22				
		B	69/9"		23				
		B	69/9"		24				
		B	69/9"		25				
		SPT	50/3"	50/3"	26				
		SPT	77/8"	77/8"	30				
		SPT	77/8"	77/8"	31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		02/23/2022	2 of 3
		PROJECT NO.:	PLATE NO.:
		22004	5

BORING LOG B-5

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		50/2"	31			GYPSIFEROUS CLAYSTONE, dry, brown	Mod. Hard
					32				
					33				
					34				
					35			Bottom of Boring at 35.5 feet Auger refusal on CLAYSTONE	Hard

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 5

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-6

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		5	0	FILL	X	FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
		SPT		2	10		X	-voids throughout	
					15		X		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 6

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-6

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	6	6	16	FILL	X	FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
					17		X		
					18		X		
					19		X		
		SPT	34	34	20		X		
					21		X		
					22		X		
					23		X		
					24		X		
		SPT	33	33	25		X		
					26		X		
					27		X		
					28		X		
					29		X		
					30		X		
		SPT	20	20	31		X		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 6

BORING LOG B-6

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
					32				
					33				
		SPT		33	34				
					35				
					36				
					37				
					38				
					39				
		SPT		23	40				
					41				
					42				
					43				
					44				
		SPT		29	45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 6

BORING LOG B-6

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		36	47 48 49 50 51		X		
Bottom of Boring at 51.5 feet Too many voids; unable to maintain boring.									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 6

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-7

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[REDACTED]	43	16	FILL	[Hatched Pattern]	FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
		SPT	[REDACTED]	13	20		[Hatched Pattern]		
		SPT	[REDACTED]	7	25		[Hatched Pattern]	-voids throughout	
		SPT	[REDACTED]	18	30		[Hatched Pattern]		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 2 of 5
		PROJECT NO.: 22004	PLATE NO.: 7

BORING LOG B-7

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
		SPT		10	32				
					33				
					34				
		SPT		13	35				
					36				
					37				
					38				
					39				
		SPT		7	40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 3 of 5
		PROJECT NO.: 22004	PLATE NO.: 7

BORING LOG B-7

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47	FILL		FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
			SPT	50/2"	48				
			SPT	17	49				
			SPT	67	50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 4 of 5
		PROJECT NO.: 22004	PLATE NO.: 7

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-7

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62	FILL		FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
					63				
					64				
		SPT		50/2"	65			SILTSTONE, dry, light gray	Mod. Hard
					66				
					67				
					68				
					69				
		SPT		50/4"	70				Hard
								Bottom of Boring at 70.5 feet Auger refusal on SILTSTONE	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/23/2022	PAGE NO: 5 of 5
		PROJECT NO.: 22004	PLATE NO.: 7

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-8

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		6	0	FILL		FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
		SPT		8	10				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 8

BORING LOG B-8

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		19	16	FILL		FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
					17				
					18				
					19				
		SPT		11	20				
					21				
					22				
					23				
					24				
		SPT		14	25				
					26				
					27				
					28				
					29				
		SPT		12	30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 8

BORING LOG B-8

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
			[REDACTED]		31	FILL	[Hatched Pattern]	FILL: Silty SAND with gravel and various waste rock, slightly moist, gray	
			[REDACTED]		32		[Hatched Pattern]		
			[REDACTED]		33		[Hatched Pattern]		
			[REDACTED]		34		[Hatched Pattern]		
		SPT	[REDACTED]	50/3"	35		[Dotted Pattern]	SANDSTONE, dry, light gray	Mod. Hard
			[REDACTED]		36		[Dotted Pattern]		
			[REDACTED]		37		[Dotted Pattern]		
			[REDACTED]		38		[Dotted Pattern]		
			[REDACTED]		39		[Dotted Pattern]		
		SPT	[REDACTED]	50/2"	40		[Dotted Pattern]		
			[REDACTED]		41		[Dotted Pattern]		
			[REDACTED]		42		[Dotted Pattern]		
			[REDACTED]		43		[Dotted Pattern]		
			[REDACTED]		44		[Dotted Pattern]		
		SPT	[REDACTED]	50/3"	45		[Dotted Pattern]		
Bottom of Boring at 45.5 feet Auger refusal on SANDSTONE									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 8

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-9

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, gray	
					1				
					2				
					3				
					4				
					5			-gypsum	
		SPT		21	6				
		B			7				
					8				
					9				
					10				
		SPT		13	11				
					12				
					13				
					14				
					15			SILTSTONE, dry, light gray	Mod. Hard

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		02/24/2022	1 of 2
		PROJECT NO.:	PLATE NO.:
		22004	9

BORING LOG B-9

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			SILTSTONE, dry, light gray	Mod. Hard
					17				
					18				
		SPT		50/5"	19				
					20				
					21				
					22				
		SPT		50/2"	23				
					24				
					25				
					26				
					27				
					28				
					29				
		SPT		50/2"	30				
Bottom of Boring at 30.2 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		02/24/2022	2 of 2
		PROJECT NO.:	PLATE NO.:
		22004	9

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Tailings - Sandy SILT, slightly moist, black	
					1				
					2				
					3				
		SPT		3	4				
					5				
					6				
					7				
					8				
					9				
		SPT		13	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 10

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		15	16	FILL		FILL: Tailings - Sandy SILT, slightly moist, black	
		SPT		22	20				
		SPT		50/3"	25			SILTSTONE, dry, light brown	Mod. Hard
		SPT		50/3"	30				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 10

BORING LOG B-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		50/4"	31			SILTSTONE, dry, light brown	Mod. Hard
					32				
					33				
					34				
					35				
					36				Hard
					37			Bottom of Boring at 37 feet Auger refusal on SILTSTONE	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 10

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Tailings - Sandy SILT, slightly moist, dark gray	
					1				
					2			-black	
					3				
					4				
					5				
		SPT		9	6				
		B			7				
					8				
					9				
					10				
		SPT		5	11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 11

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		4	16			FILL: Tailings - Sandy SILT, slightly moist, black	
		SPT		23	20			-some gray	
		SPT		32	25				
		SPT		22	30				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 11

BORING LOG B-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Tailings - Sandy SILT, slightly moist, black	
		SPT		18	32				
					33				
					34				
		SPT		15	35				
					36				
					37				
					38				
					39				
		SPT		22	40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 11

BORING LOG B-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		50/2"	47	FILL		FILL: Tailings - Sandy SILT, slightly moist, black	
					48				
					49				
					50			GYPSUM, crystalline, dry, gray-white	Hard
								Bottom of Boring at 50.2 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 11

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-12

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		2	0	FILL		FILL: Tailings - Sandy SILT, slightly moist, dark gray	
		SPT		2	1				
					2			-black	
		SPT		2	3				
					4				
					5				
					6				
					7				
					8				
					9				
		SPT		2	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 12

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-12

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		2	16	FILL		FILL: Tailings - Sandy SILT, slightly moist, black	
		SPT		24	20			-FILL: Tailings - Sandy lean CLAY, slightly moist, black	
		SPT		32	25				
		SPT		75	29			SANDSTONE, dry, light gray	Mod. Hard
					30			-with gypsum	
Bottom of Boring at 30.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/24/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 12

BORING LOG B-13

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		49	0	FILL		FILL: Silty SAND with gravel and various waste rock, slightly moist, brown	
		SPT			1				
					2				
					3				
					4				
					5				
		SPT			6				
					7				
					8				
					9				
		SPT			10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 13

BORING LOG B-13

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[REDACTED]	7	16	FILL		FILL: Silty SAND with gravel and various waste rock, slightly moist, brown	
		SPT	[REDACTED]	29	20			-FILL: Clayey SAND with various waste rock, gypsum, slightly moist, light brown	
		SPT	[REDACTED]	8	25				
		SPT	[REDACTED]	48	30			-FILL: Sandy lean CLAY, slightly moist, brown	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 13

BORING LOG B-13

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[REDACTED]	69	31	FILL	[Hatched Pattern]	FILL: Sandy lean CLAY, slightly moist, brown	
			[REDACTED]		32		[Hatched Pattern]		
			[REDACTED]		33		[Hatched Pattern]		
			[REDACTED]		34		[Hatched Pattern]		
			[REDACTED]		35		[Hatched Pattern]		
			[REDACTED]		36		[Hatched Pattern]	CLAYSTONE, dry, brown	Hard
			[REDACTED]		37		[Hatched Pattern]	Bottom of Boring at 37 feet Auger refusal on CLAYSTONE	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 13

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-14

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		7	0	FILL		FILL: Sandy SILT, slightly moist, gray	
		SPT			1				
					2				
					3			-FILL: Clayey SAND (Claystone waste rock), slightly moist, brown	
					4				
					5			-with gypsum	
		SPT			6				
					7				
					8				
		SPT			9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 14

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-14

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[Sample]	4	16	FILL	[Graphic]	FILL: Clayey SAND (Claystone waste rock), slightly moist, brown	
		SPT	[Sample]	8	20			-FILL: Silty SAND with gravel, slightly moist, brown	
		SPT	[Sample]	5	25				
		SPT	[Sample]	58	30				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 14

BORING LOG B-14

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Silty SAND with gravel, slightly moist, brown	
					32				
					33				
					34				
		SPT		50/3"	35				
					36			SILTSTONE, dry, light brown	Mod. Hard
					37				
					38				
					39				
		SPT		50/2"	40				
					41				
					42				
					43				
					44				
		SPT		50/5"	45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 14

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-14

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[REDACTED]	50/2"	47 48 49 50 51		[Hatched Pattern]	SILTSTONE, dry, light brown	Mod. Hard
								Bottom of Boring at 51.5 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 14

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Sandy SILT and various waste rock, slightly moist, gray	
					1				
					2				
					3				
					4				
		SPT		7	5				
					6				
					7				
					8				
					9				
		SPT		15	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 15

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[Sample]	13	16	FILL	[Cross-hatch pattern]	FILL: Sandy SILT and various waste rock, slightly moist, gray	
		SPT	[Sample]	18	17		[Cross-hatch pattern]		
		SPT	[Sample]	31	18		[Cross-hatch pattern]		
		SPT	[Sample]	95/11"	19		[Cross-hatch pattern]		
					20		[Cross-hatch pattern]		
					21		[Cross-hatch pattern]		
					22		[Cross-hatch pattern]		
					23		[Cross-hatch pattern]		
					24		[Cross-hatch pattern]		
					25		[Cross-hatch pattern]		
					26		[Cross-hatch pattern]		
					27		[Cross-hatch pattern]	SILTSTONE, dry, gray	Mod. Hard
					28		[Cross-hatch pattern]		
					29		[Cross-hatch pattern]		
					30		[Cross-hatch pattern]		
					31		[Cross-hatch pattern]		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 15

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
			█		31			SILTSTONE, dry, dark gray	Mod. Hard
					32				
					33				
					34				
		SPT	█	50/2"	35			-light gray	
					36				
					37				
					38				
		SPT	█	50/2"	40			-light brown	
					41				
					42				
					43				
					44				
		SPT	█	50/3"	45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 15

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	██████	50/5"	47 48 49 50		[Hatched Pattern]	SILTSTONE, dry, gray	Mod. Hard
								Bottom of Boring at 50.4 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/25/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 15

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Sandy SILT with various waste rock, slightly moist, gray	
					1				
					2				
					3				
					4				
		SPT		4	5				
					6				
					7				
					8				
					9				
		SPT		46	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 1 of 6
		PROJECT NO.: 22004	PLATE NO.: 16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[Sample]	55/11"	16	FILL	[Cross-hatch]	FILL: Sandy SILT with various waste rock, slightly moist, gray	
					17				
					18				
					19				
		SPT	[Sample]	36	20				
					21				
					22				
					23				
					24				
		SPT	[Sample]	17	25				
					26				
					27				
					28				
					29				
					30				
		SPT	[Sample]	32	31			-gypsum	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 2 of 6
		PROJECT NO.: 22004	PLATE NO.: 16

BORING LOG B-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Sandy SILT with various waste rock, slightly moist, gray	
		SPT		21	32				
					33				
					34				
		SPT		26	35				
					36				
					37				
					38				
		SPT		24	39				
					40			-FILL: Sandy lean CLAY with various waste rock, slightly moist, brown	
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 3 of 6
		PROJECT NO.: 22004	PLATE NO.: 16

BORING LOG B-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47	FILL		FILL: Sandy lean CLAY with various waste rock, slightly moist, brown	
			SPT	8	48				
			SPT	6	49				
			SPT	12	50				
			SPT	6	51				
			SPT	6	52				
			SPT	6	53				
			SPT	6	54				
			SPT	6	55			-FILL: Sandy SILT with various waste rock, slightly moist, black	
			SPT	6	56				
			SPT	6	57				
			SPT	6	58				
			SPT	6	59				
			SPT	6	60				
			SPT	6	61				
			SPT	6	62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 4 of 6
		PROJECT NO.: 22004	PLATE NO.: 16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62	FILL		FILL: Sandy SILT with various waste rock, slightly moist, black	
					63				
					64				
		SPT		29	65				
					66				
					67				
					68				
		SPT		29	70				
					71				
					72				
					73				
					74				
		SPT		65	75				
					76				
					77				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 5 of 6
		PROJECT NO.: 22004	PLATE NO.: 16

BORING LOG B-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	██████	50/2"	78 79 80	FILL	[Cross-hatch pattern]	FILL: Sandy SILT with various waste rock, slightly moist, black	
								Bottom of Boring at 80.8 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 6 of 6
		PROJECT NO.: 22004	PLATE NO.: 16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Clayey SAND and various waste rock, slightly moist, gray	
					1				
					2				
					3				
					4				
					5				
		SPT		13	6				
					7				
					8				
					9				
					10				
		SPT		31	11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 1 of 6
		PROJECT NO.: 22004	PLATE NO.: 17

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[REDACTED]	10	16	FILL	[Hatched Pattern]	FILL: Clayey SAND and various waste rock, slightly moist, gray	
		SPT	[REDACTED]	2	20		[Hatched Pattern]	-voids	
		SPT	[REDACTED]	50/3"	25		[Hatched Pattern]	CLAYSTONE, dry, light gray	Mod. Hard
		SPT	[REDACTED]	50/2"	30		[Hatched Pattern]		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 2 of 6
		PROJECT NO.: 22004	PLATE NO.: 17

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, dry, light gray	Mod. Hard
					32				
					33				
					34				
		SPT		50/2"	35				
					36				
					37				
					38				
					39				
		SPT		50/2"	40				
					41				
					42				
					43				
					44				
		SPT		50/2"	45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 3 of 6
		PROJECT NO.: 22004	PLATE NO.: 17

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-17

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			CLAYSTONE, dry, light gray	Mod. Hard
					48				
					49				
		SPT	█	50/2"	50				
					51				
					52				
					53				
					54				
		SPT	█	50/2"	55				
					56				
					57				
					58				
					59				
		SPT	█	50/3"	60				
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		02/28/2022	4 of 6
		PROJECT NO.:	PLATE NO.:
		22004	17

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62			CLAYSTONE, dry, light gray	Mod. Hard
					63				
					64				
		SPT		50/4"	65				
					66				
					67				
					68				
					69				
		SPT		50/3"	70				
					71				
					72				
					73				
					74				
		SPT		50/3"	75				
					76				
					77				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		02/28/2022	5 of 6
		PROJECT NO.:	PLATE NO.:
		22004	17

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					78			CLAYSTONE, dry, light gray Bottom of Boring at 78 feet Auger refusal on CLAYSTONE	Mod. Hard

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 02/28/2022	PAGE NO: 6 of 6
		PROJECT NO.: 22004	PLATE NO.: 17

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Sandy SILT, slightly moist, black	
		SPT		3	1				
					2				
					3				
					4				
		SPT		4	5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15			-FILL: Silty SAND, gypsum, slightly moist, light gray	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 18

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[Sample]	11	16	FILL	[Cross-hatch]	FILL: Silty SAND, gypsum, slightly moist, light gray	
					17				
					18				
					19				
		SPT	[Sample]	9	20				
					21				
					22				
					23				
					24				
		SPT	[Sample]	11	25				
					26				
					27				
					28				
					29				
		SPT	[Sample]	12	30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 18

BORING LOG B-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Silty SAND, gypsum, slightly moist, light gray	
					32				
					33				
					34				
		SPT		21	35				
					36	SM		Silty SAND, slightly moist, light brown	Med. Dense
					37				
					38				
					39				
		SPT		20	40				
					41				
					42				
					43				
					44				
		SPT		26	45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 18

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[REDACTED]	32	47	SM		Silty SAND, slightly moist, light brown	Med. Dense
					48				
					49				
					50				Dense
					51				
Bottom of Boring at 51.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 18

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			0	FILL		FILL: Silty SAND, slightly moist, brown	
		SPT		7	5	SC		Clayey SAND, gypsum, slightly moist, light brown	Loose
		SPT		11	10				Med. Dense
					15			-abundant gypsum	Dense

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 19

BORING LOG B-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[Sample]	49	16	SC	[Graphic]	Clayey SAND with gypsum, slightly moist, light brown	Dense
		SPT	[Sample]	11	20	CL	[Graphic]	Sandy lean CLAY, gypsum, slightly moist, light brown	Stiff
		SPT	[Sample]	17	25		[Graphic]		V. Stiff
		SPT	[Sample]	17	30		[Graphic]		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 19

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	CL		Sandy lean CLAY, gypsum, slightly moist, light brown	V. Stiff
					32				
					33				
					34				
		SPT		19	35				
					36				
					37				
					38				
					39				
		SPT		15	40				
					41				
					42				
					43				
					44				
		SPT		2	45			Soft	
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		03/01/2022	3 of 4
		PROJECT NO.:	PLATE NO.:
		22004	19

BORING LOG B-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	[REDACTED]	50/4"	47	CL		Sandy lean CLAY, gypsum, slightly moist, light brown	Soft
					48			CLAYSTONE, dry, brown	Mod. Hard
					49				
					50				
								Bottom of Boring at 50.9 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 19

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		4	0	FILL		FILL: Sandy SILT, slightly moist, black	
		SPT			1				
					2				
					3				
					4				
		SPT			5				
					6				
					7				
					8				
					9				
		SPT		3	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		03/01/2022	1 of 4
		PROJECT NO.:	PLATE NO.:
		22004	20

BORING LOG B-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		4	16	FILL		FILL: Sandy SILT, slightly moist, black	
		SPT		4	20			-petroleum odor	
		SPT		4	25			-FILL: Sandy lean CLAY, slightly moist, black	
		SPT		7	30				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 20

BORING LOG B-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Sandy lean CLAY, slightly moist, black	
		SPT		5	32				
					33				
					34				
		SPT			35				
					36				
					37				
					38				
		SPT		10	39				
					40				
					41				
					42				
					43				
					44				
		SPT		12	45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 20

BORING LOG B-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		15	47	FILL		FILL: Sandy lean CLAY, slightly moist, black	
					48				
					49				
					50				
					51				
Bottom of Boring at 51.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/01/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 20

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-21

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND, slightly moist, light gray	
					1	GM		Silty GRAVEL with sand, slightly moist, light gray	Med. Dense
		B							
		SPT		23					
		SPT		43				SILTSTONE, dry, light brown	Mod. Hard
		SPT		75					
					15			Bottom of Boring at 15 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		03/02/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	21

BORING LOG B-22

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, slightly moist, light gray	
					1	SM		Silty SAND, slightly moist, light gray	Med. Dense
		B			2				
		SPT		12	3				
					4				
					5				
		SPT		17	6				
					7				
					8				
					9				
					10				
		SPT			11				
					12				
					13				
		SPT		95	14				V. Dense
					15				
Bottom of Boring at 15 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/02/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 22

BORING LOG B-23

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND, slightly moist, light gray	
		B			1	SM			Med. Dense
		SPT		56	5				V. Dense
		SPT		50/5"	10	SC		Clayey SAND, slightly moist, brown	
		SPT		56	14				
Bottom of Boring at 15 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/02/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 23

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-24

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND, slightly moist, light gray	
					1	SM		Silty SAND, slightly moist, light gray	Med. Dense
		B			2				
					3				
					4				
		SPT		97/9"	5				
					6			SILTSTONE, highly decomposed, dry, light gray	Mod. Hard
					7	SC		Clayey SAND, slightly moist, light brown	V. Dense
					8				
					9	ML		Sandy SILT, slightly moist, light gray	V. Stiff
		SPT		62	10				
					11			SILTSTONE, dry, light brown	Mod. Hard
					12				
					13				
					14				
		SPT		50/5"	15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/02/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 24

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-24

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			SILTSTONE, dry, light brown	Mod. Hard
					17				
					18				
					19				
		SPT		50/4"	20				
					21				
					22				
					23				
					24				
		SPT		50/3"	25				
					26				
					27				
					28				
					29				
		SPT		50/3"					
Bottom of Boring at 29.8 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		03/02/2022	2 of 2
		PROJECT NO.:	PLATE NO.:
		22004	24

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND, slightly moist, light gray	
					1				
					2	SM		Silty SAND, slightly moist, light gray	Med. Dense
					3				
					4				
					5				
		SPT		25	6				
					7				
					8				
					9				
					10				
		SPT		13	11				
					12				
					13				
					14				
		SPT		30	15				
Bottom of Boring at 15 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/02/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 25

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-26

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, slightly moist, light gray	
					1				
					2	SM		Silty SAND with gravel, slightly moist, light gray	Med. Dense
					3				
					4				
					5				
		SPT		19	6				
					7				
					8				
					9				
					10				
		SPT		34	11				Dense
					12				
					13				
					14				
		SPT		21	15				Med. Dense
								Bottom of Boring at 15 feet	

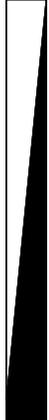
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		03/02/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	26

BORING LOG B-27

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, slightly moist, light gray	
					1	SM		Silty SAND with gravel, slightly moist, light gray	Med. Dense
		B			2				
		SPT		29	3				
		SPT		25	4				
		SPT		40	5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				Dense
					15				
Bottom of Boring at 15 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/02/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 27

BORING LOG B-28

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		6	0	FILL		FILL: Silty SAND with gravel, slightly moist, dark gray	
		SPT			1			-light gray	
					2				
					3				
					4				
		SPT			5				
					6				
					7				
					8				
		SPT			9				
					10				
				5	11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 28

BORING LOG B-28

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT	6	6	16	FILL		FILL: Silty SAND with gravel, slightly moist, light gray	
		SPT	26	26	17	GM		Silty GRAVEL with sand, slightly moist, light gray-brown	Med. Dense
		SPT	27	27	20				
		SPT	50/5"	50/5"	25				
		SPT	50/5"	50/5"	26				
		SPT	50/5"	50/5"	27				
		SPT	50/5"	50/5"	28				
		SPT	50/5"	50/5"	29				
		SPT	50/5"	50/5"	30			GYPSUM, dry, white	V. Dense
Bottom of Boring at 30.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO.: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 28

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-29

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Sandy SILT, slightly moist, black	
					1				
					2				
					3				
					4				
		SPT		4	5				
					6				
					7				
					8				
					9				
		SPT		7	10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		03/03/2022	1 of 2
		PROJECT NO.:	PLATE NO.:
		22004	29

BORING LOG B-29

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		4	16	FILL		FILL: Sandy SILT, slightly moist, black	
		SPT		31	20	SM		Silty SAND with gravel, slightly moist, light gray	Dense
		SPT		25	25				Med. Dense
		SPT		21	29				
					30			Bottom of Boring at 30.5 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 29

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-30

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		10	0	FILL		FILL: Silty GRAVEL with sand - various waste rock, slightly moist, brown and gray -gypsum -Claystone (waste rock)	
		SPT		8	1				
		SPT		8	2				
		SPT		8	3				
		SPT		8	4				
		SPT		8	5				
		SPT		8	6				
		SPT		8	7				
		SPT		8	8				
		SPT		8	9				
		SPT		8	10				
		SPT		8	11				
		SPT		8	12				
		SPT		8	13				
		SPT		8	14				
		SPT		8	15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 30

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG B-30

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		9	16	FILL		FILL: Claystone (waste rock)	
		SPT		10	20				
		SPT		18	25				
		SPT		22	29				
Bottom of Boring at 30.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 30

BORING LOG B-31

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		8	0	FILL		FILL: Silty SAND with gravel - various waste rock, slightly moist, dark gray	
		SPT			1				
					2				
					3				
					4				
					5				
		SPT			6				
					7				
					8				
					9				
		SPT			10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 31

BORING LOG B-31

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		11	16			FILL: Silty SAND with gravel - various waste rock, slightly moist, dark gray	
					17				
					18				
					19				
		SPT		43	20				
					21				
					22				
					23				
		SPT		8	25				
					26				
					27				
					28				
		SPT		15	29				
					30			-gypsum	
Bottom of Boring at 30.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 31

BORING LOG B-32

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		5	0	FILL		FILL: Tailings - Sandy SILT, slightly moist, black	
		SPT			1				
					2				
					3				
					4				
		SPT			5				
					6				
					7				
					8				
		SPT			9				
					10				
				4	11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 32

BORING LOG B-32

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		SPT		5	16	FILL		FILL: Tailings - Sandy SILT, slightly moist, dark gray	
					17				
					18				
					19				
		SPT		9	20				
					21				
					22				
					23				
		SPT		23	25				
					26				
					27				
					28				
		SPT		11	29				
					30				
Bottom of Boring at 30.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 03/03/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 32

BORING LOG MM-311-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark gray-brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 1 of 6
		PROJECT NO.: 22004	PLATE NO.: 33

BORING LOG MM-311-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Silty SAND with gravel, slightly moist, light gray	
					17				
					18				
					19				
					20				
					21			-some reddish-brown claystone (waste rock)	
					22			-dark brown	
					23				
					24			-reddish-brown gypsiferous claystone (waste rock)	
					25				
					26				
					27				
					28			-gray breccia, dacite, and claystone (waste rock)	
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 2 of 6
		PROJECT NO.: 22004	PLATE NO.: 33

BORING LOG MM-311-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: gray breccia, dacite, and claystone (waste rock)	
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					43				
					44				
					45				
					46			CLAYSTONE, highly decomposed, dry, light brown	Mod. Hard

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 3 of 6
		PROJECT NO.: 22004	PLATE NO.: 33

BORING LOG MM-311-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			CLAYSTONE, highly decomposed, dry, light brown	Mod. Hard
					48				
					49				
					50			SANDSTONE, fine-grained, dry, light gray	Mod. Hard
					51				
					52				
					53				
					54				
					55				
					56			CLAYSTONE, some gypsum, dry, brown	Mod. Hard
					57				
					58				
					59				
					60				
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/06/2022	4 of 6
		PROJECT NO.:	PLATE NO.:
		22004	33

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62			CLAYSTONE, some gypsum, dry, brown	Mod. Hard
					63				
					64				
					65				
					66				
					67				
					68				
					69				
					70				
					71				
					72				
					73				
					74				
					75				
					76				
					77				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/06/2022	5 of 6
		PROJECT NO.:	PLATE NO.:
		22004	33

BORING LOG MM-311-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					78			CLAYSTONE, some gypsum, dry, brown	Mod. Hard
					79				
					80			Bottom of Boring at 80 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 6 of 6
		PROJECT NO.: 22004	PLATE NO.: 33

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 34

BORING LOG MM-311-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					17			-breccia and tuff, gray	
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30			-FILL: crystalline gypsum	
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 34

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			31	FILL		FILL: Crystalline gypsum	
					32			-FILL: Silty SAND with gravel, light brown	
					33				
					34				
					35				
					36			-darker brown	
					37				
					38			-light brown	
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46			-FILL: Claystone and sandstone, trace gypsum (waste rock)	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 34

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47	FILL		FILL: Claystone and sandstone, trace gypsum (waste rock)	
					48				
					49				
					50			-breccia and basalt clasts, gray	
					51				
					52				
					53				
					54			-FILL: Silty SAND with gravel (broken up waste rock), brown-gray	
					55				
					56				
					57				
					58			Bottom of Boring at 58 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/12/2022	4 of 4
		PROJECT NO.:	PLATE NO.:
		22004	34

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 1 of 6
		PROJECT NO.: 22004	PLATE NO.: 35

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					17				
					18				
					19				
					20				
					21				
					22			-clasts of crystalline gypsum	
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 2 of 6
		PROJECT NO.: 22004	PLATE NO.: 35

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 3 of 6
		PROJECT NO.: 22004	PLATE NO.: 35

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-18

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive gray	Hard
					60				
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/12/2022</p>	PAGE NO: <p style="text-align: center;">4 of 6</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">35</p>

BORING LOG MM-311-18

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive gray	Hard
					63				
					64				
					65				
					66				
					67				
					68				
					69				
					70				
					71				
					72				
					73				
					74				
					75				
					76				
					77				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
----------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/12/2022</p>	PAGE NO: <p style="text-align: center;">5 of 6</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">35</p>

BORING LOG MM-311-18

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					78			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive gray	Hard
					79				
					80				
					81				
					82				
					83				
					84				
					85			Bottom of Boring at 85 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/12/2022	6 of 6
		PROJECT NO.:	PLATE NO.:
		22004	35

BORING LOG MM-311-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14			-mostly gypsiferous claystone (waste rock)	
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 1 of 6
		PROJECT NO.: 22004	PLATE NO.: 36

BORING LOG MM-311-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 2 of 6
		PROJECT NO.: 22004	PLATE NO.: 36

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 3 of 6
		PROJECT NO.: 22004	PLATE NO.: 36

BORING LOG MM-311-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
			B		47	FILL	[Cross-hatch pattern]	FILL: Various waste rock - claystone, gypsum, and volcanics, gray, black, and brown	
					48		[Cross-hatch pattern]		
					49		[Cross-hatch pattern]		
					50		[Cross-hatch pattern]		
					51		[Cross-hatch pattern]		
					52		[Cross-hatch pattern]		
					53		[Cross-hatch pattern]		
					54		[Cross-hatch pattern]		
					55		[Cross-hatch pattern]		
					56		[Cross-hatch pattern]		
					57		[Cross-hatch pattern]		
					58		[Cross-hatch pattern]		
					59		[Cross-hatch pattern]		
					60		[Cross-hatch pattern]		
					61		[Cross-hatch pattern]		
					62		[Cross-hatch pattern]		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 4 of 6
		PROJECT NO.: 22004	PLATE NO.: 36

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62			GYPSIFEROUS CLAYSTONE, highly decomposed, dry, light brown and white	Mod. Hard
					63				
					64				
					65				
					66				
					67				
					68				
					69				
					70				
					71				
					72				
					73				
					74				
					75				
					76				
					77				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 5 of 6
		PROJECT NO.: 22004	PLATE NO.: 36

BORING LOG MM-311-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					78			GYPSIFEROUS CLAYSTONE, highly decomposed, dry, light brown and white -olive-brown -olive-gray	Mod. Hard
					79				
					80				
					81				
					82				
					83				
					84				
					85				
					86				
					87				
					88				
					89				
					90			Bottom of Boring at 90 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/12/2022	6 of 6
		PROJECT NO.:	PLATE NO.:
		22004	36

BORING LOG MM-311-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Various waste rock - Claystone, gypsum, and volcanics, brown, gray, and black	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10			-large clasts of crystalline gypsum	
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 1 of 5
		PROJECT NO.: 22004	PLATE NO.: 37

BORING LOG MM-311-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	FILL		FILL: Various waste rock - Claystone, gypsum, and volcanics, brown, gray, and black	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 2 of 5
		PROJECT NO.: 22004	PLATE NO.: 37

BORING LOG MM-311-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Various waste rock - Claystone, gypsum, and volcanics, brown, gray, and black	
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 3 of 5
		PROJECT NO.: 22004	PLATE NO.: 37

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-20

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47	FILL		FILL: Various waste rock - Claystone, gypsum, and volcanics, brown, gray, and black	
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/17/2022</p>	PAGE NO: <p style="text-align: center;">4 of 5</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">37</p>

BORING LOG MM-311-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62	FILL	X	FILL: Various waste rock - Claystone, gypsum, and volcanics, brown, gray, and black	
					63		X		
					64		X		
					65		X		
					66		X		
					67		X		
					68		X		
					69		X		
					70		X		
					71		X		
					72		X		
					73		X		
					74		X		
					75		X		
								Bottom of Boring at 75 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 5 of 5
		PROJECT NO.: 22004	PLATE NO.: 37

BORING LOG MM-311-21

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
			B		0	FILL		FILL: Silty GRAVEL with sand, slightly moist, light brown and gray	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 38

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-21

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Silty GRAVEL with sand, slightly moist, light brown and gray	
					17				
					18				
					19				
					20				
					21				
					22				
					23			-cobble-sized crystalline gypsum and claystone clasts	
					24				
					25				
					26	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 38

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-21

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					32				
					33			GYP SUM, fine-grained with some crystals, dry, white	Mod. Hard
					34				
					35			GYP SIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 38

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-21

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					48				
					49				
					50				
					51				
					52				
					53			-olive-gray	
					54				
					55				
					56				
					57				
					58				
					59				
					60				
					61				
Bottom of Boring at 61.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/21/2022	4 of 4
		PROJECT NO.:	PLATE NO.:
		22004	38

BORING LOG MM-311-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, slightly moist, black and brown	
					1				
					2	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 39

BORING LOG MM-311-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					17			GYPSSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					18				
					19				
					20				
					21				
					22				
					23			GYPSSUM, crystalline, gray and white	Hard
					24				
					25				
					26				
					27				
					28				
					29				
					30			GYPSSIFEROUS CLAYSTONE, dry, brown and white	
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO.: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 39

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-25

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, dry, brown and white	Hard
					32				
					33				
					34				
					35				
					36				
								Bottom of Boring at 36 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/21/2022</p>	PAGE NO: <p style="text-align: center;">3 of 3</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">39</p>

BORING LOG MM-311-26

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
			B		0	FILL	[Cross-hatched pattern]	FILL: Silty SAND with gravel, various rock clasts, slightly moist, brown and gray	
					1		[Cross-hatched pattern]		
					2		[Cross-hatched pattern]		
					3		[Cross-hatched pattern]		
					4		[Cross-hatched pattern]		
					5		[Cross-hatched pattern]		
					6		[Cross-hatched pattern]		
					7		[Cross-hatched pattern]		
					8		[Cross-hatched pattern]		
					9		[Cross-hatched pattern]		
					10		[Cross-hatched pattern]		
					11		[Cross-hatched pattern]		
					12		[Cross-hatched pattern]		
					13		[Cross-hatched pattern]		
					14		[Cross-hatched pattern]		
					15		[Cross-hatched pattern]		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 40

BORING LOG MM-311-26

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Silty SAND with gravel, various rock clasts, slightly moist, brown and gray	
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 40

BORING LOG MM-311-26

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Silty SAND with gravel, various rock clasts, slightly moist, brown and gray	
					32				
					33				
					34				
					35				
					36				
					37	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46			GYPSUM, crystalline, dry, light gray and white	Mod. Hard

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 40

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-26

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47		*****	GYPSUM, crystalline, dry, light gray and white	Mod. Hard
					48		*****		
					49		*****		
					50		*****		
					51		*****		
					52		*****		
					53		*****		
					54		*****		
					55		*****		
					56		*****		
					57		*****		
					58		*****		-with Claystone
					59		*****		
					60		*****		
								Bottom of Boring at 60 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 40

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-27

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, various rock, dark gray and black	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8			-FILL: Silty SAND with gravel, light brown	
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/21/2022	1 of 3
		PROJECT NO.:	PLATE NO.:
		22004	41

BORING LOG MM-311-27

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Silty SAND with gravel, light brown	
					17				
					18			-larger gravel	
					19				
					20				
					21				
					22	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					23				
					24				
					25				
					26				
					27			GYPSEFEROUS CLAYSTONE, highly decomposed, dry, olive brown and white	Mod. Hard
					28				
					29			-slightly more competent	
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO.: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 41

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-311-27

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive brown and white	Mod. Hard
					32				
					33				
					34				
					35				
					36				
								Bottom of Boring at 36 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 41

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-313-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5			-trace cobbles, light brown	
					6				
					7				
					8				
					9				
					10			-FILL: Silty GRAVEL with sand, slightly moist, light brown	
					11				
					12	SM		-FILL: Silty SAND with gravel, some cobbles, slightly moist, light brown	Med. Dense
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/23/2021	PAGE NO.: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 42

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-313-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, some cobbles, slightly moist, light brown	Dense
					17				
					18				
					19				
					20			-light brown to light grayish-brown	
					21				
					22				
					23	GM		Silty GRAVEL with sand, slightly moist, light brown	
					24				
					25	SM		Silty SAND with gravel, slightly moist, light brown	
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/23/2021	PAGE NO.: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 42

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-313-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	SM		Silty SAND with gravel, slightly moist, light brown to light grayish-brown	Dense
					32				
					33			-trace cobbles	
					34				
					35	CL		Sandy CLAY, slightly moist, light grayish-brown	V. Stiff
								Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/23/2021	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 42

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 43

BORING LOG MM-321-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					17				
					18			-some clasts of gypsiferous claystone	
					19				
					20			-brown and white	
					21			GYPsIFEROUS CLAYSTONE, moderately decomposed, dry, light brown and white	Hard
					22				
					23				
					24				
					25			-highly decomposed, less gypsum, light brown	Mod. Hard
					26			-gypsiferous, light brown and white, more competent	Hard
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 43

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSSIFEROUS CLAYSTONE, moderately decomposed, dry, light brown and white	Hard
					32				
					33				
					34				
					35				
					36			-trace gypsum	
Bottom of Boring at 36 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 43

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, trace cobbles, slightly moist, brown to dark brown	
					1				
					2				
					3				
					4				
					5			- brown	
					6				
					7				
					8	SM		Silty SAND with gravel, slightly moist, brown to light brown	Med. Dense
					9				
					10				
					11				
					12			-trace gypsum, light brown	
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/20/2021	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 44

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, trace gypsum, slightly moist, light brown	Med. Dense
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				Dense
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		12/20/2021	2 of 3
		PROJECT NO.:	PLATE NO.:
		22004	44

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, dry, light grayish brown to light gray	Hard
					32				
					33				
					34			SILTSTONE, moderately decomposed, dry, light brown	Mod. Hard
					35			Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/20/2021	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 44

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-05

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7			-light brown	
					8				
					9				
					10				
					11				
					12				
					13			-dark brown	
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 45

BORING LOG MM-321-05

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B	▲		16	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					17	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					18				
					19				
					20				
					21				
					22				
					23			-with gypsum	
					24				
					25				
					Bottom of Boring at 25 feet				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 45

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-06

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL	[Cross-hatch pattern]	Poorly graded SAND with silt and gravel, slightly moist, brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10	SM	[Vertical line pattern]	Silty SAND with gravel, slightly moist, brown	Med. Dense
					11				
					12				
					13				
					14				
					15		[Dotted pattern]	SANDSTONE with Siltstone and Claystone horizons...	Mod. Hard

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 46

BORING LOG MM-321-06

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			SANDSTONE with Siltstone and Claystone horizons, moderately decomposed, dry, light brown	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
								Bottom of Boring at 25 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/21/2022	2 of 2
		PROJECT NO.:	PLATE NO.:
		22004	46

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-08

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4			-FILL: Broken up Claystone and Crystalline Gypsum, red-brown and dark gray	
					5				
					6	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/05/2022	1 of 3
		PROJECT NO.:	PLATE NO.:
		22004	47

BORING LOG MM-321-08

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					17			GYPsIFEROUS CLAYSTONE, dry, brown and white	Mod. Hard
					18				
					19				
					20				
					21			-gypsum more crystalline	Hard
					22				
					23				
					24				
					25				
					26				
					27			-no gypsum	
					28				
					29				
					30			-gypsiferous	
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 47

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-08

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, dry, brown and white	Hard
					32				
					33				
					34				
					35				
					36				
								Bottom of Boring at 36 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/05/2022</p>	PAGE NO: <p style="text-align: center;">3 of 3</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">47</p>

BORING LOG MM-321-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, some cobbles, trace boulders, slightly moist, brown to dark brown	
					1				
					2				
					3				
					4			- brown	
					5				
					6	SM		Silty SAND, trace gravel, some gypsum, slightly moist, light brown	Med. Dense
					7				
					8	CL		Sandy lean CLAY, some gypsum, severely decomposed CLAYSTONE, slightly moist, light reddish-brown	V. Stiff
					9			GYPHSIFEROUS CLAYSTONE, moderately decomposed, light reddish-brown	Mod. Hard
					10				
					11			-slightly decomposed	Hard
					12				
					13			-undecomposed, light grayish-brown to light gray	V. Hard
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/20/2021	PAGE NO.: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 48

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			GYPsIFEROUS CLAYSTONE, undecomposed, dry, light grayish-brown to light gray	V. Hard
					17				
					18			-moderately decomposed, light reddish brown	Mod. Hard
					19				
					20				
					21				
					22			-undecomposed, some gypsum, light reddish-brown to light gray	V. Hard
					23				
					24			-moderately decomposed, light reddish- brown	Mod. Hard
					25				
					26				
					27				
					28				
					29			-slightly decomposed	Hard
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/20/2021	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 48

BORING LOG MM-321-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, some gypsum, slightly decomposed, dry, light reddish-brown	Hard
					32				
					33			-moderately to severely decomposed	Mod. Hard
					34				
					35			Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/20/2021	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 48

BORING LOG MM-321-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15			-large clasts of crystalline gypsum	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO.: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 49

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG MM-321-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					17				
					18				
					19				
					20				
					21				
					22			GYPSUM, crystalline, dry, gray	Hard
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
Bottom of Boring at 30 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 49

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-331-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					2				
					3				
					4			CLAYSTONE to Sandstone, dry, light gray	Mod. Hard
					5				
					6				
					7				
					8				
					9				
					10				Hard
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 50

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-331-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			CLAYSTONE to Sandstone, dry, light gray	Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
Bottom of Boring at 30 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 50

BORING LOG SS-331-09

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
			B		0	FILL		FILL: Silty SAND with gravel, trace cobbles and debris, slightly moist, dark brown to brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7			-brown	
					8				
					9	SM		Silty SAND, some gravel and gypsum thin interbedded layers of clay and silt, slightly moist, light brown to light grayish-brown	Dense
					10				
					11				
					12	SC		Clayey SAND with gravel, trace gypsum, slightly moist, light grayish-brown	
					13	CL		Sandy CLAY with gravel, some gypsum and cobbles, severely decomposed CLAYSTONE, slightly moist, light gray	V. Stiff
					14			-trace gypsum, trace gravel, light grayish-brown to light reddish-brown	
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/10/2021	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 51

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-331-09

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	CL	/	Sandy CLAY, trace gypsum and gravel, slightly moist, severely decomposed CLAYSTONE, light grayish-brown to light reddish-brown	V. Stiff
					17		/		
					18		/		
					19		/	-some sand, reddish-brown	
					20		/		
					21		/		
					22		/		
					23		/	-some gypsum	
					24		/	-abundant gypsum	
					25	CH	/	FAT CLAY, trace gypsum, severely decomposed CLAYSTONE, slightly moist, reddish-brown	
					26		/		
					27	CL	/	Sandy CLAY, some gypsum, severely decomposed CLAYSTONE, slightly moist, reddish-brown to light reddish-brown	
					28		/		
					29		/	-light grayish-brown	
					30		/		
					31		/		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/10/2021	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 51

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-331-09

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, some gypsum, undecomposed, dry, light gray to white	V. Hard
					32				
					33				
					34				
					35				
					36			-slightly decomposed	Hard
					37				
					38				
					39				
					40				
								Bottom of Boring at 40 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/10/2021	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 51

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-331-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3			GYPSIFEROUS CLAYSTONE, with horizons of crystalline gypsum, dry, light olive-gray and white	Mod. Hard
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 52

BORING LOG SS-331-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16		[Vertical Hatching]	GYPSIFEROUS CLAYSTONE, with horizons of crystalline gypsum, dry, light olive-gray and white	Mod. Hard
					17		[Vertical Hatching]		
					18		[Vertical Hatching]		
					19		[Vertical Hatching]		
					20		[Vertical Hatching]		
					21		[Vertical Hatching]		
					22		[Vertical Hatching]		
					23		[Vertical Hatching]		
					24		[Vertical Hatching]		
					25		[Vertical Hatching]		
					26		[Vertical Dotted]	GYPSUM, crystalline, dry, white and gray	
					27		[Vertical Dotted]		
					28		[Vertical Dotted]		
					29		[Vertical Dotted]		
					30		[Vertical Dotted]		
					31		[Vertical Hatching]	GYPSIFEROUS CLAYSTONE, with horizons of crystalline gypsum, dry, light olive-gray and white	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 52

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-331-11

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPsIFEROUS CLAYSTONE, with horizons of crystalline gypsum, dry, light olive-gray and white	Mod. Hard
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46				
								-brown and white	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/17/2022</p>	PAGE NO: <p style="text-align: center;">3 of 4</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">52</p>

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-331-11

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			GYPsIFEROUS CLAYSTONE, with horizons of crystalline gypsum, dry, light brown and white	Mod. Hard
					48			-olive-gray and white	
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				
								Bottom of Boring at 60 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/17/2022</p>	PAGE NO.: <p style="text-align: center;">4 of 4</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">52</p>

BORING LOG SS-332-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					4				
					5				
			B		6				
					7				
					8			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 53

BORING LOG SS-332-03

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/21/2022	2 of 4
		PROJECT NO.:	PLATE NO.:
		22004	53

BORING LOG SS-332-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 53

BORING LOG SS-332-03

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				
					61				
Bottom of Boring at 61.5 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/21/2022</p>	PAGE NO: <p style="text-align: center;">4 of 4</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">53</p>

BORING LOG SS-332-07

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, some cobbles and debris, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7	SM		Silty SAND with gravel, slightly moist, brown	Med. Dense
					8				
					9				
					10			- light brown	
					11				
					12				
					13				Dense
					14				
					15			-trace gravel, light brown to light grayish-brown	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/14/2021	PAGE NO.: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 54

BORING LOG SS-332-07

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND, trace gravel, light brown to light grayish-brown	Dense
					17	CL		Sandy lean CLAY, trace gravel, severely decomposed CLAYSTONE, slightly moist, light gray	V. Stiff
				18					
				19					
				20					
					21			CLAYSTONE, slightly decomposed, dry, light gray	Hard
					22				
					23			-gypsiferous	
					24				
					25			-more competent, light gray to white	V. Hard
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/14/2021	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 54

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-332-07

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, some gypsum, moderately decomposed, dry, reddish-brown	Hard
					32				
					33				
					34			-abundant gypsum, light grayish-brown	
					35			Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/14/2021	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 54

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-332-09

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3	SM		Silty SAND, slightly moist, light brown	Med. Dense
					4				
					5				
			B		6				
					7				
					8				
					9			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 55

BORING LOG SS-332-09

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
								Bottom of Boring at 25 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 55

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-01

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					14				
					15			-larger gravel	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 56

BORING LOG SS-333-01

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			16	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					17				
					18			CLAYSTONE, gypsum veins, highly decomposed, dry, light brown	Mod. Hard
					19				
					20			-gypsiferous, moderately decomposed, light brown and white	
					21				
					22				
					23				
					24				
					25			-gypsum more crystalline	Hard
					26				
					27				
					28				
					29				
					30			-more competent	
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO.: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 56

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-01

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, dry, brown and white	Hard
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 56

BORING LOG SS-333-01

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			GYPSIFEROUS CLAYSTONE, dry, brown and white	Hard
					48				
					49				
					50			Bottom of Boring at 50 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 56

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, some cobbles, trace boulders, slightly moist, brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9			-dark brown	
					10			CLAYSTONE, some gypsum, slightly decomposed, dry, light gray to white	Hard
					11			-moderately to severely decomposed, brown to reddish-brown	Mod. Hard
					12				
					13				
					14			-gypsiferous, brown to dark brown	
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/20/2021	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 57

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-02

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			CLAYSTONE, some gypsum, moderately decomposed, dry, reddish-brown	Mod. Hard
					17				
					18				
					19				
					20			-gypsiferous	
					21				
					22				
					23				
					24			-moderately decomposed, light reddish brown	
					25				
					26			-moderately to severely decomposed, some gypsum, light brown to light reddish-brown	
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">12/20/2021</p>	PAGE NO: <p style="text-align: center;">2 of 4</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">57</p>

BORING LOG SS-333-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, some gypsum, moderately decomposed, dry, light brown to light reddish-brown	Mod. Hard
					32				
					33				
					34				
					35			-gypsiferous, reddish-brown	
					36				
					37				
					38				
					39				
					40			-light grayish-brown	
					41				
					42			-some gypsum, light brown to light reddish-brown	
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/20/2021	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 57

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-02

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			CLAYSTONE, some gypsum, moderately decomposed, dry, light brown	Mod. Hard
					48				
					49				
					50			-slightly decomposed	
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59			-more competent, trace gypsum	Hard
					60			Bottom of Boring at 60 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/20/2021	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 57

BORING LOG SS-333-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					6				
					7				
					8				
					9				
					10			GYPSUM, dry, white	
					11				
					12	SM		Silty SAND with gravel, slightly moist, light brown	
					13				
					14			CLAYSTONE, some gypsum, highly decomposed, dry, light brown	Mod. Hard
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 58

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-03

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			CLAYSTONE, some gypsum, highly decomposed, dry, light brown	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26			GYPSUM, trace claystone, dry, white	
					27			CLAYSTONE, little gypsum, dry, light brown	Hard
					28				
					29				
					30			-more gypsum	
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/05/2022</p>	PAGE NO.: <p style="text-align: center;">2 of 3</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">58</p>

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, some gypsum, dry, light brown	Hard
					32				
					33				
					34				
					35				
					36			-less gypsum, black and light brown	
					37			-gypsiferous, light brown and white	
					38				
					39				
					40			-dark gray and white	
					41				
					42				
					43				
					44				
					45			Bottom of Boring at 45 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 58

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-07

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
		B			2				
					3				
					4			-gypsum, claystone, and siltstone clasts, light brown and gray	
					5				
					6				
					7				
					8				
					9				
					10			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, light brown	Mod. Hard
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO.: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 59

BORING LOG SS-333-07

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, light brown	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/17/2022	2 of 3
		PROJECT NO.:	PLATE NO.:
		22004	59

BORING LOG SS-333-07

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, light brown	Mod. Hard
					32				
					33				
					34				
					35				
								Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 59

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-09

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Clayey SAND, trace gravel, dark brown	
					1			-light brown	
					2			-FILL: Sandy CLAY, trace gravel, slightly moist, light grayish-brown	
					3			-some gravel, light grayish-brown to light gray	
					4				
					5			some sand	
					6				
					7				
					8			-claystone cobbles	
					9				
					10				
					11	CL		Sandy CLAY, abundant gypsum, severely decomposed CLAYSTONE, slightly moist, light grayish-brown to tan	V. Stiff
					12				
					13			CLAYSTONE, moderately decomposed, dry, light grayish-brown to tan	Mod. Hard
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/13/2021	PAGE NO.: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 60

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-09

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			CLAYSTONE, abundant gypsum, moderately decomposed, dry, light grayish-brown to tan	Mod. Hard
					17				
					18			-slightly decomposed	Hard
					19				
					20			-moderately decomposed	Mod. Hard
					21				
					22				
					23			-slightly decomposed, light grayish-brown	Hard
					24				
					25			-slightly to undecomposed, light grayish-brown to light gray	V. Hard
					26			-trace gypsum	
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">12/13/2021</p>	PAGE NO: <p style="text-align: center;">2 of 3</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">60</p>

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-09

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			-slightly decomposed, light grayish-brown	Hard
					32				
					33				
					34			-slightly to undecomposed, light grayish brown to light gray	V. Hard
					35			-slightly decomposed, light brown to light grayish-brown	Hard
					36				
					37				
					38			-light grayish-brown to light gray	
					39				
					40				
					41				
					42				
					43			-light brown to light grayish-brown	
					44				
					45			-light grayish-brown	
Bottom of Boring at 45 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/13/2021	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 60

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			0	FILL		FILL: Silty SAND, few gravel, slightly moist, dark brown	
					1				
					2			SANDSTONE and Siltstone, dry, light gray	Mod. Hard
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 61

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			SANDSTONE and Siltstone, dry, light gray	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/21/2022	2 of 3
		PROJECT NO.:	PLATE NO.:
		22004	61

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, moderately decomposed, dry, olive and gray	Mod. Hard
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
								Bottom of Boring at 45 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 61

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-14

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL	X	FILL: Silty SAND with gravel, slightly moist, dark brown	
					1		X		
					2		X		
					3		X		
					4		X	GYP SUM, crystalline, dark gray and white	Mod. Hard
					5		X		
					6		X		
					7		X		
					8		X		
					9		X		
					10		X		
					11		X		
					12		X		
					13		X		
					14		X		
					15		X		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 62

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-14

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16		•••••	GYP SUM, crystalline, dry, dark gray and white	Mod. Hard
					17		•••••		
					18		•••••	GYP SIFEROUS CLAYSTONE, highly decomposed, dry, light and dark gray	
					19		•••••		
					20		•••••	GYP SUM, crystalline, dark gray and white	
					21		•••••		
					22		•••••		
					23		•••••		
					24		•••••		
					25		•••••		
					26		•••••		
					27		•••••		
					28		•••••		
					29		•••••		
					30		•••••		
					31		•••••		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 62

BORING LOG SS-333-14

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31		•••••	GYPSUM, crystalline, dark gray and white	Mod. Hard
					32		•••••		
					33		•••••		
					34		•••••		
					35		•••••		
								Bottom of Boring at 35 feet	

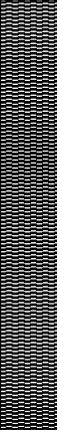
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 62

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, gray	
					1				
					2				
					3	SM		Silty SAND with gravel, slightly moist, light gray	Med. Dense
					4				
					5				
					6				
					7				
					8			-brown	
					9				
					10			SILTSTONE/SANDSTONE, highly decomposed, dry, light brown-gray	Mod. Hard
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO.: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 63

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			SILTSTONE/SANDSTONE, highly decomposed, dry, light brown-gray	Mod. Hard
					17				
					18				
					19			SANDSTONE, highly decomposed, dry, light gray	
					20			SILTSTONE/SANDSTONE, highly decomposed, dry, light brown-gray	
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30			CLAYSTONE, intermittent sandstone beds, dry, light brown	
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 63

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, intermittent sandstone beds, dry, light brown	Mod. Hard
					32				
					33				
					34				
					35				
								Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 63

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			0	SM		Silty SAND with gravel, slightly moist, light brown	Loose
					1	SC		Clayey SAND, some gypsum, slightly moist, light gray	Med. Dense
					2				
					3				
					4				
					5	SM		Silty SAND with gravel, slightly moist, light brown	
					6				
					7	SC		Clayey SAND, some gypsum, slightly moist, light gray	
					8				
					9				
					10				
					11				
					12				
					13				
					14				
				15					

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 64

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SC		Clayey SAND, some gypsum, slightly moist, light gray	Med. Dense
					17				
					18				
					19			GYPSIFEROUS CLAYSTONE, dry, olive and white	Hard
					20				
					21				
					22				
					23				
					24				
					25			-brown and white	
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 64

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, dry, brown and white	Hard
					32				
					33				
					34				
					35			-olive gray and white	
					36				
					37				
					38				
					39				
					40			Bottom of Boring at 40 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/06/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 64

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	CL		Sandy lean CLAY, trace gypsum, slightly moist, light brown	V. Stiff
					1				
					2				
					3	GM		Silty GRAVEL with sand, slightly moist, brown	Dense
					4	CL		Sandy lean CLAY, trace gypsum, slightly moist, light brown	V. Stiff
					5			CLAYSTONE, trace gypsum, moderately decomposed, light brown	Mod. Hard
					6				
					7				
					8			-sandy	
					9				
					10			-light gray	
					11			-light brown	
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 65

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			CLAYSTONE, trace gypsum, moderately decomposed, light brown	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				Hard
					23				
					24				
					25				-more sandy, light gray
					26				
					27				
					28				
					29				
					30			-light brown	
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO.: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 65

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE, trace gypsum, moderately decomposed, light brown	Hard
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40			-light gray-brown	
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 65

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			CLAYSTONE, trace gypsum, moderately decomposed, light gray-brown	Hard
					48				
					49				
					50			Bottom of Boring at 50 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 65

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-23

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown and gray	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 66

BORING LOG SS-333-23

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			16	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					17				
					18			GYPSUM, crystalline, with horizons of CLAYSTONE, dry, light gray	Hard
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO.: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 66

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-23

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31		•••••	GYPSUM, crystalline, with horizons of CLAYSTONE, dry, light gray	Hard
					32		•••••		
					33		•••••		
					34		•••••		
					35		•••••		
					36		•••••		
					37		•••••		
					38		•••••		
					39		•••••		
					40		•••••		
					41		•••••		
					42		•••••		
					43		•••••		
					44		•••••		
					45		•••••		
					46		•••••		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 66

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-23

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47		•••••	GYPSUM, crystalline, with horizons of CLAYSTONE, dry, light gray	Hard
					48		•••••		
					49		•••••		
					50		•••••		
					51		•••••		
					52		•••••		
					53		•••••		
					54		•••••		
					55		•••••		
					56		•••••		
					57		•••••		
					58		•••••		
					59		•••••		
					60		•••••	Bottom of Boring at 60 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		01/12/2022	4 of 4
		PROJECT NO.:	PLATE NO.:
		22004	66

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5	SM		Silty SAND with gravel, slightly moist, light brown-gray	Med. Dense
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 1 of 7
		PROJECT NO.: 22004	PLATE NO.: 67

BORING LOG SS-333-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, slightly moist, light brown-gray	Med. Dense
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30			GYP SUM, crystalline, with horizons of CLAYSTONE, dry, light gray	Hard
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO.: 2 of 7
		PROJECT NO.: 22004	PLATE NO.: 67

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31		•••••	GYPSUM, crystalline, with horizons of CLAYSTONE, dry, light gray	Hard
					32		•••••		
					33		•••••		
					34		•••••		
					35		•••••		
					36		•••••		
					37		•••••		
					38		•••••		
					39		•••••		
					40		•••••		
					41		•••••		
					42		•••••		
					43		•••••		
					44		•••••		
					45		•••••		
					46		•••••		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 3 of 7
		PROJECT NO.: 22004	PLATE NO.: 67

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62		•••••	GYPSUM, crystalline, with horizons of CLAYSTONE, dry, light gray	Hard
					63		•••••		
					64		•••••		
					65		•••••		
					66		•••••		
					67		•••••		
					68		•••••		
					69		•••••		
					70		•••••		
					71		•••••		
					72		•••••		
					73		•••••		
					74		•••••		
					75		•••••		
					76		•••••		
					77		•••••		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 5 of 7
		PROJECT NO.: 22004	PLATE NO.: 67

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					78		•••••	GYPSUM, crystalline, with horizons of CLAYSTONE, dry, light gray	Hard
					79		•••••		
					80		•••••		
					81		•••••		
					82		•••••		
					83		•••••		
					84		•••••		
					85		•••••		
					86		•••••		
					87		•••••		
					88		•••••		
					89		•••••		
					90		▬▬▬▬▬		
					91		▬▬▬▬▬		
					92		▬▬▬▬▬		
					93		▬▬▬▬▬		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 6 of 7
		PROJECT NO.: 22004	PLATE NO.: 67

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY	
					93			CLAYSTONE, some gypsum, dry, gray	Hard	
					94					
					95					
					96					
					97					
					98					
					99					
					100					
							Bottom of Boring at 100 feet			

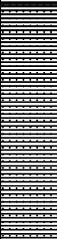
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 7 of 7
		PROJECT NO.: 22004	PLATE NO.: 67

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-28

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND, some gravel, some cobbles, trace boulders, slightly moist, brown to dark brown -trace gravel, light brown to light grayish-brown	
					1				
					2				
					3				
					4				
					5			CLAYSTONE, slightly to moderately decomposed, dry, light grayish-brown	Mod. Hard
					6			-moderately decomposed, light brown to light grayish-brown	
					7				
					8			Partially welded TUFF, dry, intermittently welded and unwelded layers, light grayish-brown	V. Hard
					9				
					10				
					11			-some lithic fragments	Hard
					12				
					13				
					14			-thin chemical alterations, pale green and dark reddish-brown	Mod. Hard
					15			-some partially collapsed pumice	Hard

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/21/2021	PAGE NO: 1 of 5
		PROJECT NO.: 22004	PLATE NO.: 68

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-28

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			Intermittently welded TUFF, some gray lithic fragments and partially collapsed white pumice fragments, dry, pale pinkish to greenish-white	Hard
					17				
					18			-unwelded	Mod. Hard
					19				
					20				
					21			-thin intermittent welded layers	
					22				
					23			-slightly welded, no lithic or pumice fragments, light grayish-brown to light gray	Hard
					24				
					25			-unwelded, trace iron nodules, light grayish-brown	Mod. Hard
					26				
					27				
					28				
					29			-partially welded	Hard
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/21/2021	PAGE NO: 2 of 5
		PROJECT NO.: 22004	PLATE NO.: 68

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-28

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			Partially welded TUFF, trace iron nodules, dry, light grayish-brown	Hard
					32				
					33				
					34			-light gray and greenish-gray banding	Mod. Hard
					35				
					36				
					37				Hard
					38				
					39				
					40				
					41				
					42			-welded to moderately welded, white	Hard
					43				
					44			-some lithic fragments	
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/21/2021	PAGE NO.: 3 of 5
		PROJECT NO.: 22004	PLATE NO.: 68

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-28

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			Partially welded TUFF, some lithic fragments and chemical alterations, dry, light grayish-brown	Mod. Hard
					48				
					49			-light greenish-gray and white banding	
					50				
					51				
					52				
					53			-light grayish-brown to white	Hard
					54				
					55			SANDSTONE, some reworked tuff fragments, iron alterations, light brown to light grayish-brown	Mod. Hard
					56				
					57				
					58			CLAYSTONE, some white banding, dry, light greenish to grayish-brown	Hard
					59				
					60			SILTSTONE, greenish and reddish-white banding, dry, light grayish-brown	Mod. Hard
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/21/2021	PAGE NO: 4 of 5
		PROJECT NO.: 22004	PLATE NO.: 68

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-28

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62			SILTSTONE, greenish and reddish-white banding, dry, light grayish-brown	Mod. Hard
					63			CLAYSTONE, dry, white	V. Hard
					64				
					65			Bottom of Boring at 65 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">12/21/2021</p>	PAGE NO.: <p style="text-align: center;">5 of 5</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">68</p>

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-32

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			0	SM		Silty SAND with gravel, slightly moist, light brown	
					1				
					2				
					3				
					4				
					5			-clasts of crystalline gypsum	
					6				
					7				
					8			GYPSUM, crystalline, some sand and clay, dry, gray and brown	Hard
					9				
					10				
					11				
					12			-interbedded with decomposed CLAYSTONE	
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 1 of 6
		PROJECT NO.: 22004	PLATE NO.: 69

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-32

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16		•••••	GYPSUM, crystalline, interbedded with decomposed CLAYSTONE dry, gray and brown	Hard
					17		•••••		
					18		•••••	-with sand and clay	
					19		•••••		
					20		•••••		
					21		•••••		
					22		•••••		
					23		•••••		
					24		•••••		
					25		•••••	GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive-gray	
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 2 of 6
		PROJECT NO.: 22004	PLATE NO.: 69

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-333-32

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive-gray	Mod. Hard
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/12/2022</p>	PAGE NO: <p style="text-align: center;">3 of 6</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">69</p>

BORING LOG SS-333-32

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive-gray	Mod. Hard
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/12/2022</p>	PAGE NO: <p style="text-align: center;">4 of 6</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">69</p>

BORING LOG SS-333-32

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive-gray	Mod. Hard
					63				
					64				
					65				
					66				
					67				
					68				
					69				
					70				
					71				
					72				
					73				
					74				
					75		-olive-brown and gray		
					76				
					77				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 5 of 6
		PROJECT NO.: 22004	PLATE NO.: 69

BORING LOG SS-333-32

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					78			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, olive-gray	Mod. Hard
					79				
					80			Bottom of Boring at 80 feet	

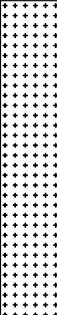
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/12/2022	PAGE NO: 6 of 6
		PROJECT NO.: 22004	PLATE NO.: 69

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-07

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			0	FILL		FILL: Silty SAND with gravel, dark brown	
					1				
					2				
					3			GYPSEFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					4				
					5				
					6			GYPSEUM, crystalline, dry, gray and white	
					7				
					8				
					9				
					10			-with claystone layers 10-17'	
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 70

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-07

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16		•••••	GYPSUM, crystalline, dry, gray and white	Mod. Hard
					17		•••••		
					18		•••••		
					19		•••••		
					20		•••••	-olive-gray	
					21		•••••		
					22		•••••		
					23		•••••		
					24		•••••		
					25		•••••	CLAYSTONE with Siltstone, moderately decomposed, dry, light gray	
					26		▬▬▬▬▬		
					27		▬▬▬▬▬		
					28		▬▬▬▬▬		
					29		▬▬▬▬▬		
					30		▬▬▬▬▬		
					31		▬▬▬▬▬		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 70

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-07

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			CLAYSTONE with Siltstone, moderately decomposed, dry, light gray	Mod. Hard
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43			-sandy	
					44				
					45				
								Bottom of Boring at 45 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 70

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, some cobbles and debris, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8			-FILL: Clayey SAND, some gravel, slightly moist, dark brown	
					9				
					10				
					11				
					12				
					13				
					14			-some debris, dark brown to brown	
					15	SM		Silty SAND with gravel, some cobbles, slightly moist, brown	Med. Dense

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/13/2021	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 71

BORING LOG SS-334-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, some cobbles, slightly moist, brown	Med. Dense
					17	SP-SM		Poorly-graded SAND with silt and gravel, slightly moist, light grayish-brown	
					18			-trace gravel, brown to light grayish brown	
					19				
					20	SM		Silty SAND, thin and intermittent lenses of brown CLAY, slightly moist, light brown to light grayish-brown	Dense
					21	CL		Lean CLAY, some sand, gypsum, and reddish-brown pieces of Fat CLAY, slightly moist, light brown to light reddish-brown	V. Stiff
					22			-trace sand	
					23				
					24				
					25	CH		Fat CLAY, some gypsum, slightly moist, light reddish-brown	
					26				
					27				
					28	CL		Lean CLAY, some sand and gypsum, slightly moist, light reddish-brown to light brown	
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/13/2021	PAGE NO.: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 71

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	CL		Lean CLAY, some sand, abundant gypsum, slightly moist, light grayish-brown	V. Stiff
					32				
					33				
					34				
					35				
					36				
					37				
					38			-sandy, trace gypsum	
					39				
					40				
					41				
					42				
					43			CLAYSTONE, some gypsum, slightly moist, light grayish-brown	V. Hard
					44				
					45				
Bottom of Boring at 45 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/13/2021	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 71

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-10B

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, claystone and large crystalline gypsum clasts, slightly moist, brown, gray and white	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 72

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-10B

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					17			SANDSTONE, dry, white-gray	Mod. Hard
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30			-with Siltstone	
					31				

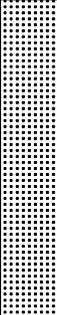
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 72

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-10B

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			SANDSTONE with Siltstone, dry, white-gray	Mod. Hard
					32				
					33				
					34				
					35			Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 72

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown and black	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 73

BORING LOG SS-334-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
			B		16	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown and black	
					17			-light brown	
					18				
					19				
					20			-dark brown and black	
					21				
					22				
					23			-light brown	
					24				
					25				
					26				
					27				
					28				
					29				
					30				
Bottom of Boring at 30 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO.: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 73

BORING LOG SS-334-15B

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, some cobbles, boulders, and concrete debris, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">12/14/2021</p>	PAGE NO: <p style="text-align: center;">1 of 3</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">74</p>

BORING LOG SS-334-15B

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SP-SM		Poorly-sorted SAND with silt and gravel, some clasts of decomposing rock, slightly moist, brown to light brown	Med. Dense
					17				
					18	GM		Silty GRAVEL with sand, slightly moist, light brown	
					19	SM		Silty SAND with gravel, slightly moist, light brown to light grayish-brown	Dense
					20	CL		Sandy CLAY, nearly partially cemented, some interbedded gypsum and reddish-brown CLAY, slightly moist, light grayish-brown to light gray	V. Stiff
					21				
					22				
					23			-light brown to light grayish-brown	
					24				
					25				
					26			GYPSIFEROUS CLAYSTONE, dry, reddish-brown	Mod. Hard
					27				
					28				
					29			-some gypsum, light gray to white	Hard
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/14/2021	PAGE NO.: 2 of 3
		PROJECT NO.: 22004	PLATE NO.: 74

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-15B

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, dry, reddish-brown	V. Hard
					32				
					33				
					34			-light gray to white	
					35			Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/14/2021	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 74

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5				
					6			GYP SUM, crystalline, dry, gray and white	
					7				
					8	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					9				
					10				
					11				
					12	SP-SM		Poorly graded SAND with silt and gravel, slightly moist, light brown	
					13				
					14	SM		Silty SAND with gravel, slightly moist, light brown	
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 75

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-334-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SM		Silty SAND with gravel, slightly moist, light brown	
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24			-larger gravel	
					25				
					26				
					27				
					28				
					29				
					30				
Bottom of Boring at 30 feet									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/05/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 75

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-12

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3				
					4				
					5	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
					6				
					7				
					8				
					9				
					10			-with gypsum	
					11				
					12				
					13				
					14			GYPsIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 1 of 2
		PROJECT NO.: 22004	PLATE NO.: 76

BORING LOG SS-336-12

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
								Bottom of Boring at 26 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 2 of 2
		PROJECT NO.: 22004	PLATE NO.: 76

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, trace cobbles, slightly moist, brown to dark brown	
					1				
					2				
					3				
					4				
					5				
					6			-some cobbles, brown to light brown	
					7				
					8				
					9				
					10	GM		Silty GRAVEL with sand, some cobbles, slightly moist, light brown	Dense
					11				
					12				
					13			-brown	
					14				
					15	SC		Clayey SAND, some gypsum, slightly moist, light grayish-brown	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/23/2021	PAGE NO: 1 of 4
		PROJECT NO.: 22004	PLATE NO.: 77

BORING LOG SS-336-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	SC		Clayey SAND, some gypsum, slightly moist, light grayish-brown	Dense
					17	CL		Sandy CLAY, severely decomposed claystone, trace gypsum, slightly moist, light brown	V. Stiff
					18				
					19			GYPISIFEROUS CLAYSTONE, slightly decomposed, dry, light brown	Mod. Hard
					20				
					21				
					22			-light brown to light grayish-brown	
					23				
					24			-more competent, some thin and intermittent moderately decomposed lenses, light grayish-brown to tan	Hard
					25				
					26				
					27				
					28				
					29				
					30			-gray	V. Hard
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/23/2021	PAGE NO: 2 of 4
		PROJECT NO.: 22004	PLATE NO.: 77

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSSIFEROUS CLAYSTONE, dry, gray	V. Hard
					32				
					33				
					34				
					35			-light gray	
					36				
					37				
					38			-light gray to white	
					39				
					40			-moderately to severely decomposed, reddish-brown	Mod. Hard
					41				
					42			-moderately decomposed, light reddish-brown	Hard
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/23/2021	PAGE NO.: 3 of 4
		PROJECT NO.: 22004	PLATE NO.: 77

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, light reddish-brown	Hard
					48				
					49				
					50				
					51				
					52				
							Bottom of Boring at 52 feet		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/23/2021	PAGE NO: 4 of 4
		PROJECT NO.: 22004	PLATE NO.: 77

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, dark brown	
					1				
					2				
					3	SP-SM		Poorly graded SAND with silt and gravel, slightly moist, light brown	Med. Dense
					4				
					5				
					6				
					7			GYP SUM, some crystals, dry, white and gray	
					8				
					9				
					10				
					11				
					12				
					13			-more crystalline	Mod. Hard
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO.: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 78

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31		•••••	GYPSUM, crystalline, dry, white and gray	Mod. Hard
					32		•••••		
					33		•••••		
					34		•••••		
					35		•••••		
								Bottom of Boring at 35 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 78

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-29

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty SAND with gravel, slightly moist, brown	
					1				
					2				
					3				
					4				
					5				
					6				
					7	SM		Silty SAND with gravel, gypsum, slightly moist, light brown	Med. Dense
					8				
					9				
					10			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO.: 1 of 3
		PROJECT NO.: 22004	PLATE NO.: 79

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-29

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/21/2022</p>	PAGE NO.: <p style="text-align: center;">2 of 3</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">79</p>

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG SS-336-29

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31			GYPSIFEROUS CLAYSTONE, moderately decomposed, dry, brown and white	Mod. Hard
					32			Bottom of Boring at 32.5 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/21/2022	PAGE NO: 3 of 3
		PROJECT NO.: 22004	PLATE NO.: 79

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG TA-212-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
					1				
					2				
					3			-FILL: Silty SAND, some gravel, slightly moist, dark brown	
					4				
					5				
					6			-FILL: Sandy CLAY, slightly moist, dark brown	
					7				
					8				
					9				
					10			-FILL: Silty SAND, slightly moist, dark brown	
					11				
					12			-FILL: Clayey SAND with gravel, slightly moist, dark brown	
					13				
					14				
					15			-FILL: Silty SAND with gravel, some clay, slightly moist, dark brown	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/22/2021	PAGE NO: 1 of 8
		PROJECT NO.: 22004	PLATE NO.: 80

BORING LOG TA-212-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Silty SAND with gravel, some clay, slightly moist, dark brown	
					17			-trace gravel	
					18				
					19				
					20			-FILL: Clayey SAND, some gravel, slightly moist, dark brown	
					21				
					22			-FILL: Sandy CLAY, slightly moist, dark brown	
					23				
					24			-FILL: Clayey SAND, slightly moist, dark brown	
					25				
					26				
					27				
					28				
					29			-FILL: Silty SAND, slightly moist, dark brown	
					30				
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/22/2021	PAGE NO: 2 of 8
		PROJECT NO.: 22004	PLATE NO.: 80

BORING LOG TA-212-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		-FILL: Silty SAND, slightly moist, dark brown	
					32				
					33	SC		Clayey SAND, interbedded with light brown sandy CLAY, slightly moist, dark brown	Med. Dense
					34				
					35				
					36	CL		Sandy lean CLAY with gravel, slightly moist, dark brown	V. Stiff
					37				
					38				
					39	SM		Silty SAND, trace gravel and clay, slightly moist, dark brown	Med. Dense
					40				
					41				
					42	SC		Clayey SAND, interbedded with brown Fat CLAY, slightly moist, brown to light brown	
					43				
					44	CH		Fat CLAY, interbedded with brown sandy CLAY, slightly moist, light brown	V. Stiff
					45				
					46			-light brown to light reddish-brown	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/22/2021	PAGE NO: 3 of 8
		PROJECT NO.: 22004	PLATE NO.: 80

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG TA-212-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B			47	CH		Fat CLAY, interbedded with brown sandy CLAY, slightly moist, light brown to light reddish-brown	V. Stiff
					48	CL		Lean CLAY, some thin and intermittent lenses of Silty SAND, trace lenses of light reddish-brown FAT CLAY, slightly moist, dark brown	
					49	SM		Silty SAND, trace lenses of dark brown CLAY, slightly moist, brown	Med. Dense
					50				
					51	CL		Lean CLAY, some sand, dark brown	V. Stiff
					52				
					53	SM		Silty SAND with gravel, some gypsum, trace lenses of dark brown CLAY, slightly moist, brown to light brown	Med. Dense
					54				
					55				
					56				
					57				
					58				
					59			-some cobbles	
					60				
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/22/2021	PAGE NO.: 4 of 8
		PROJECT NO.: 22004	PLATE NO.: 80

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG TA-212-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62			GYPsIFEROUS CLAYSTONE, slightly moist, light grayish-brown to white	V. Hard
					63			-white	
					64				
					65				
					66				
					67				
					68				
					69				
					70			-light grayish-brown	
					71				
					72			-white	
					73				
					74				
					75			-moderately to severely decomposed, some gypsum, slightly moist, light grayish-brown to white	Mod. Hard
					76				
					77			-abundant gypsum, some sand, light grayish-brown to white	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/22/2021	PAGE NO.: 5 of 8
		PROJECT NO.: 22004	PLATE NO.: 80

BORING LOG TA-212-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					78			GYPHSIFEROUS CLAYSTONE, dry, light grayish-brown	Mod. Hard
					79				
					80			-some gypsum, tan to white	
					81				
					82				
					83				
					84				
					85			-abundant gypsum	
					86				
					87				
					88			-sandy, some gypsum, light reddish-brown	
					89				
					90			-abundant gypsum, slightly decomposed, dry, gray to white	Hard
					91				
					92				
					93				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED:	PAGE NO:
		12/22/2021	6 of 8
		PROJECT NO.:	PLATE NO.:
		22004	80

BORING LOG TA-212-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					93			GYPHSIFEROUS CLAYSTONE, slightly to moderately decomposed, dry, light brown to light grayish-brown	Mod. Hard
					94			-slightly decomposed, light grayish-brown to white	Hard
					95				
					96				
					97			-abundant gypsum, undecomposed, gray	V. Hard
					98				
					99			-dark gray	
					100				
					101				
					102			-slightly decomposed, light gray	Hard
					103				
					104				
					105				
					106			-more competent, dark gray	V. Hard
					107				
					108				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/22/2021	PAGE NO: 7 of 8
		PROJECT NO.: 22004	PLATE NO.: 80

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG TA-212-03

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					109			GYPSIFEROUS CLAYSTONE, dry, dark gray	V. Hard
					110			Bottom of Boring at 110 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 12/22/2021	PAGE NO: 8 of 8
		PROJECT NO.: 22004	PLATE NO.: 80

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG TA-212-04

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					0	FILL		FILL: Tailings - Sandy SILT, slightly moist, dark gray	
					1				
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 1 of 6
		PROJECT NO.: 22004	PLATE NO.: 81

BORING LOG TA-212-04

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					16	FILL		FILL: Tailings - Sandy SILT, slightly moist, dark gray	
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30			-FILL: Tailings - Lean CLAY, slightly moist, dark gray	
					31				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 2 of 6
		PROJECT NO.: 22004	PLATE NO.: 81

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG TA-212-04

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
	SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					31	FILL		FILL: Tailings - Lean CLAY, slightly moist, dark gray	
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40			CLAYSTONE, dry, light brown	Mod. Hard
					41				
					42				
					43				
					44				
					45				
					46				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

<h2 style="margin: 0;">CENTURION CONSULTANTS</h2>	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO: 3 of 6
		PROJECT NO.: 22004	PLATE NO.: 81

BORING LOG TA-212-04

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					47			CLAYSTONE, dry, light brown	Mod. Hard
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				
					61				
					62				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/17/2022</p>	PAGE NO.: <p style="text-align: center;">4 of 6</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">81</p>

BORING LOG TA-212-04

CLIENT: <p style="text-align: center;">Pulte Homes</p>	PROJECT: <p style="text-align: center;">Three Kids Mine Site Mixed-Use Development</p>
BORING LOCATION: <p style="text-align: center;">SEE SITE MAP</p>	ELEVATION (ft): <p style="text-align: center;">N/A</p>
SITE: <p style="text-align: center;">SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.</p>	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					62			CLAYSTONE, dry, light brown	Mod. Hard
					63				
					64				
					65				
					66				
					67				
					68				
					69				
					70				
					71				
					72				
					73				
					74				
					75				
					76				
					77				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.	* SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE
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CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: <p style="text-align: center;">01/17/2022</p>	PAGE NO: <p style="text-align: center;">5 of 6</p>
		PROJECT NO.: <p style="text-align: center;">22004</p>	PLATE NO.: <p style="text-align: center;">81</p>

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

BORING LOG TA-212-04

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
BORING LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	BLOWS/FT	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
					78			CLAYSTONE, dry, light brown	Mod. Hard
					79				
					80				
					81				
					82				
					83				
					84				
					85			Bottom of Boring at 85 feet	

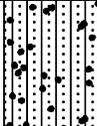
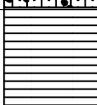
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth drilled.	DATE DRILLED: 01/17/2022	PAGE NO.: 6 of 6
		PROJECT NO.: 22004	PLATE NO.: 81

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-1

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
		B		0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown	
				1	GM		Silty GRAVEL with sand, slightly moist, light brown	
				2	SM		Silty SAND with gravel, slightly moist, light brown	
				3				
				4				
				5			GYPSIFEROUS CLAYSTONE, dry, brown	Mod. Hard
				6				
							Bottom of Trench at 6.5 feet Refusal on CLAYSTONE	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/09/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 82

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-2

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown	
				1	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
				2				
				3				
				4				Dense
		B		5			-gray-brown -trace gypsum	V. Dense
				6				
				7				
				8				
				9				
							Bottom of Trench at 9.5 feet Refusal on CLAYSTONE	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/09/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	83

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-3

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY	
		B		0	FILL		FILL: Silty SAND with gravel, cobbles, slightly moist, dark brown		
				1					
				2		SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
				3			GYPSIFEROUS CLAYSTONE, dry, brown	Mod. Hard	
							Bottom of Trench at 4 feet Refusal on CLAYSTONE		

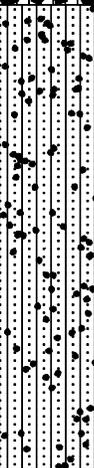
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/09/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 84

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-4

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark gray	
				1				
				2	GM		Silty GRAVEL with sand, slightly moist, light brown	Med. Dense
				3				
				4				
				5				
				6				
		B		7				
				8	SM		Silty SAND with gravel, slightly moist, light brown	
				9				
				10				
				11				
				12				
				13				
				14				Dense
							Bottom of Trench at 15 feet	

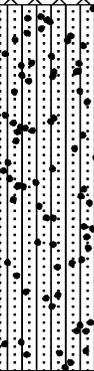
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/09/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	85

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-5

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, gray to dark brown	
				1				
				2	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
				3				
				4				
				5				Dense
				6				
				7				V. Dense
							Bottom of Trench at 7.5 feet Refusal on SANDSTONE	

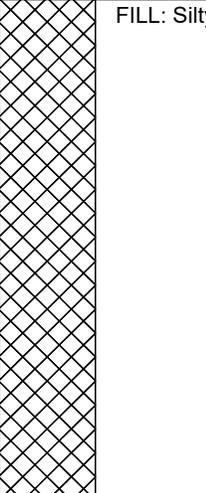
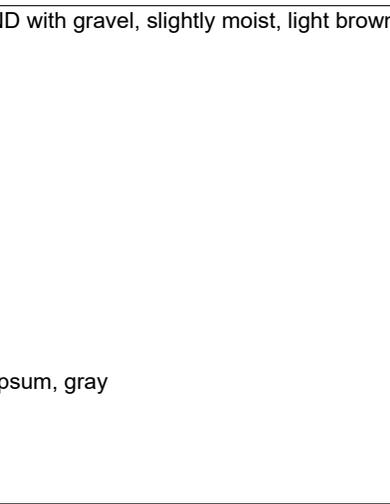
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/09/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	86

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-6

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, gray	
				1				
				2				
				3				
				4				
				5				
				6				
				7				
				8	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
				9				Dense
				10				
				11				V. Dense
				12				
				13			-trace gypsum, gray	
				14				
							Bottom of Trench at 15 feet	

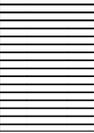
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/09/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 87

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-7

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
				1				
				2	SM		Silty SAND, slightly moist, light brown	Dense
				3				
				4				
				5			GYPSIFEROUS CLAYSTONE, dry, brown	Mod. Hard
		B					Bottom of Trench at 6 feet Refusal on CLAYSTONE	

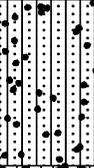
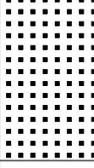
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/09/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 88

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-8

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown	
				1				
				2	SM		Silty SAND with gravel, slightly moist, light brown	Dense
				3				
				4	GM		Silty GRAVEL with sand, slightly moist, light brown	
				5				
				6				
				7				
				8				
				9				
				10			SANDSTONE, dry, light brown	Mod. Hard
				11				
							Bottom of Trench at 11.5 feet Refusal on SANDSTONE	

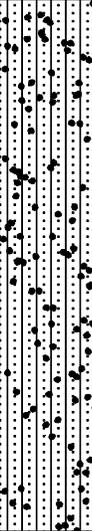
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/08/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 89

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-9

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown	
				1				
				2	GM		Silty GRAVEL with sand, slightly moist, light brown	Loose
				3				
				4				Dense
				5				
				6				
				7	SM		Silty SAND with gravel, slightly moist, light brown	
				8				
				9				
		B		10				
				11				
				12				
				13				
				14				
							Bottom of Trench at 15 feet	

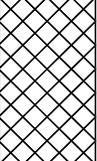
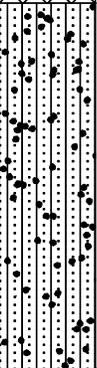
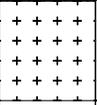
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/08/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 90

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-10

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		Silty GRAVEL with sand, cobbles, slightly moist, dark gray	
				1				
				2				
				3	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
		B		4				
				5			-brown	
				6				Dense
				7				
				8			GYPSUM with CLAYSTONE horizons, slightly moist, brown	Mod. Hard
				9				
							Bottom of Trench at 9.5 feet Refusal on GYPSUM and CLAYSTONE	

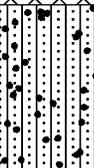
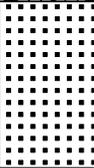
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/09/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 91

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-11

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, light brown	
				1				
				2	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
				3				
				4				
				5	GM		Silty GRAVEL with sand, slightly moist, light brown	
				6				
				7			SANDSTONE, dry, light brown	Mod. Hard
				8				
				9				
							Bottom of Trench at 9.5 feet Refusal on SANDSTONE	

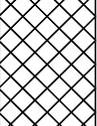
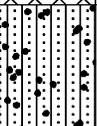
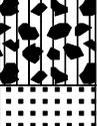
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/08/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 92

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-12

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown-gray	
				1				
				2	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
				3				
				4	GM		Silty GRAVEL with sand, slightly moist, light brown	
				5				
				6				
				7			SANDSTONE, dry, light brown	Mod. Hard
				8			-gray	
		B		9				
							Bottom of Trench at 10 feet Refusal on SANDSTONE	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/08/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 93

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-13

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown	
				1				
				2	GM		Silty GRAVEL with sand, slightly moist, gray-brown	Loose
				3				Dense
				4				
				5				
				6				
				7				
		B		8				
				9				
				10				
				11				V. Dense
				12				
							Bottom of Trench at 12.5 feet Refusal on SANDSTONE	

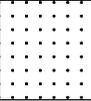
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/09/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 94

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-14

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
				1			SANDSTONE, dry, light brown	Mod. Hard
							Bottom of Trench at 2 feet Refusal on SANDSTONE	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/08/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	95

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-15

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark gray	
				1	SM		Silty SAND with gravel, slightly moist, light brown	Med. Dense
				2				
				3	GM		Silty GRAVEL with sand, slightly moist, light brown	
				4				
				5				
				6			SANDSTONE, dry, light brown	Mod. Hard
							Bottom of Trench at 6.5 feet Refusal on SANDSTONE	

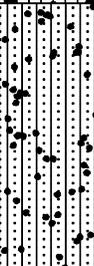
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/08/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	96

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-16

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
				1				
		B		2	GM		Silty GRAVEL with sand, slightly moist, light brown	Med. Dense
				3				
				4				
				5	SM		Silty SAND with gravel, slightly moist, light brown	
				6				
				7			-gypsum	
				8				
				8.5			Bottom of Trench at 8.5 feet Refusal on CLAYSTONE	

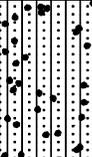
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/07/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 97

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-17

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
				1				
				2				
				3	GM		Silty GRAVEL with sand, slightly moist, gray-brown	Dense
				4				
				5				
				6	SM		Silty SAND with gravel, slightly moist, brown	
				7				
				8				
		B		9			GYPSUM, dry, gray-white	V. Dense
				10				
							Bottom of Trench at 10.5 feet Refusal on GYPSUM	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/07/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 98

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-18

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown	
				1				
				2				
				3	GM		Silty GRAVEL with sand, slightly moist, light brown	Med. Dense
				4				
				5				Dense
				6				
						Bottom of Trench at 6.5 feet Refusal on SANDSTONE		

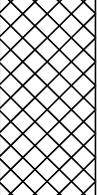
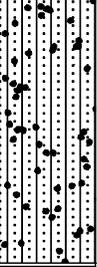
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/09/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	99

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-19

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, brown	
				1				
				2				
				3	GM		Silty GRAVEL with sand, slightly moist, light brown	Dense
				4				
				5	SM		Silty SAND with gravel, slightly moist, light dark brown	
				6				
				7				
				8				
				9			CLAYSTONE/SILTSTONE, dry, gray	Mod. Hard
				10			-gypsum	
							Bottom of Trench at 11 feet Refusal on CLAYSTONE	

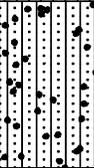
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/07/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	100

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-20

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
				1				
				2	GM		Silty GRAVEL with sand, slightly moist, gray-brown	Med. Dense
				3				
				4				Dense
				5	SM		Silty SAND with gravel, slightly moist, gray-brown	
				6				
				7				
							Bottom of Trench at 7.5 feet Refusal on GYPSUM	

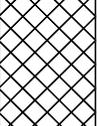
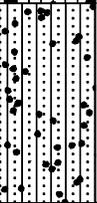
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/07/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	101

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-21

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, dark brown	
				1				
		B		2	GM		Silty GRAVEL with sand, slightly moist, gray-brown	Med. Dense
				3				
				4				
				5	SM		Silty SAND with gravel, slightly moist, light brown	Dense
				6				
				7			-trace gypsum	
							Bottom of Trench at 7.5 feet Refusal on GYPSUM	

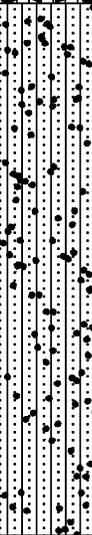
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/07/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 102

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-22

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown	
				1				
				2	GM		Silty GRAVEL with sand, slightly moist, light brown	Med. Dense
				3				
				4				
				5				
				6				Dense
				7	SM		Silty SAND with gravel, slightly moist, light brown	
				8				
				9				
				10				V. Dense
				11				
				12				
				13				
		B		14				
							Bottom of Trench at 15 feet	

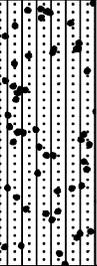
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/08/2022	PAGE NO.: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 103

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-23

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
				1	GM		Silty GRAVEL with sand, slightly moist, gray-brown	Med. Dense
				2				
				3				
				4	SM		Silty SAND with gravel, slightly moist, light brown	Dense
				5				
				6				
				7			-trace gypsum	
							Bottom of Trench at 7.5 feet Refusal on GYPSUM	

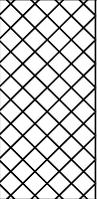
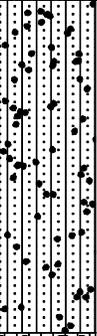
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/07/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	104

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-24

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
				1				
				2				
				3	SM		Silty SAND with gravel, slightly moist, gray-brown	Med. Dense
				4				
				5				
				6				
				7			-trace gypsum	
		B		8	GM		Silty GRAVEL with sand, slightly moist, gray-brown	
				9				
				10			GYP SUM, dry, gray-white	V. Dense
							Bottom of Trench at 10.5 feet Refusal on GYP SUM	

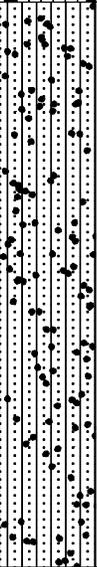
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/07/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 105

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-25

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, slightly moist, dark brown	
				1				
				2	GM		Silty GRAVEL with sand, slightly moist, light brown	Med. Dense
				3				
				4				Dense
				5				
				6				
				7	SM		Silty SAND with gravel, cobbles, slightly moist, light brown	Med. Dense
				8				
				9				
				10			-gray-brown	Dense
				11				
				12				
				13				
				14				
							Bottom of Trench at 15 feet	

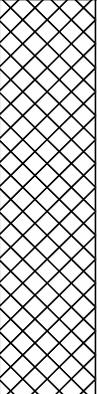
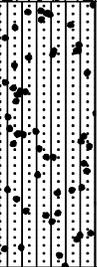
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED:	PAGE NO:
		02/07/2022	1 of 1
		PROJECT NO.:	PLATE NO.:
		22004	106

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-26

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark brown	
				1			-light brown	
				2				
				3				
				4				
				5				
				6	GM		Silty GRAVEL with sand, slightly moist, light brown	Med. Dense
				7				
				8				
				9				
				10			-gray-brown	
				11	SM		Silty SAND with gravel, slightly moist, light brown	Dense
				12				
				13				
		B		14				
							Bottom of Trench at 15 feet	

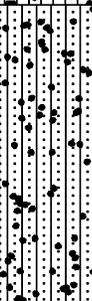
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/07/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 107

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

TEST PIT LOG TP-27

CLIENT: Pulte Homes	PROJECT: Three Kids Mine Site Mixed-Use Development
TEST PIT LOCATION: SEE SITE MAP	ELEVATION (ft): N/A
SITE: SEC Lake Mead Pkwy. & Lake Las Vegas Pkwy.	

MOISTURE CONTENT %	DRY DENSITY PCF	SAMPLE TYPE*	SAMPLE	DEPTH, FT	USCS SYMBOL	GRAPHIC	SOIL DESCRIPTION	CONSISTENCY
				0	FILL		FILL: Silty GRAVEL with sand, cobbles, slightly moist, dark gray	
				1				
				2	GM		Silty GRAVEL with sand, slightly moist, light brown	Med. Dense
				3				
				4				
				5				Dense
				6	SM		Silty SAND with gravel, slightly moist, gray-brown	Med. Dense
				7				
				8				
				9				
				10				
		B		11			-light brown	Dense
				12				
				13				
				14				
							Bottom of Trench at 15 feet	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. * SAMPLE TYPE: R = RING B = BAG SPT = STANDARD PENETRATION BN = BULL NOSE C = CORE

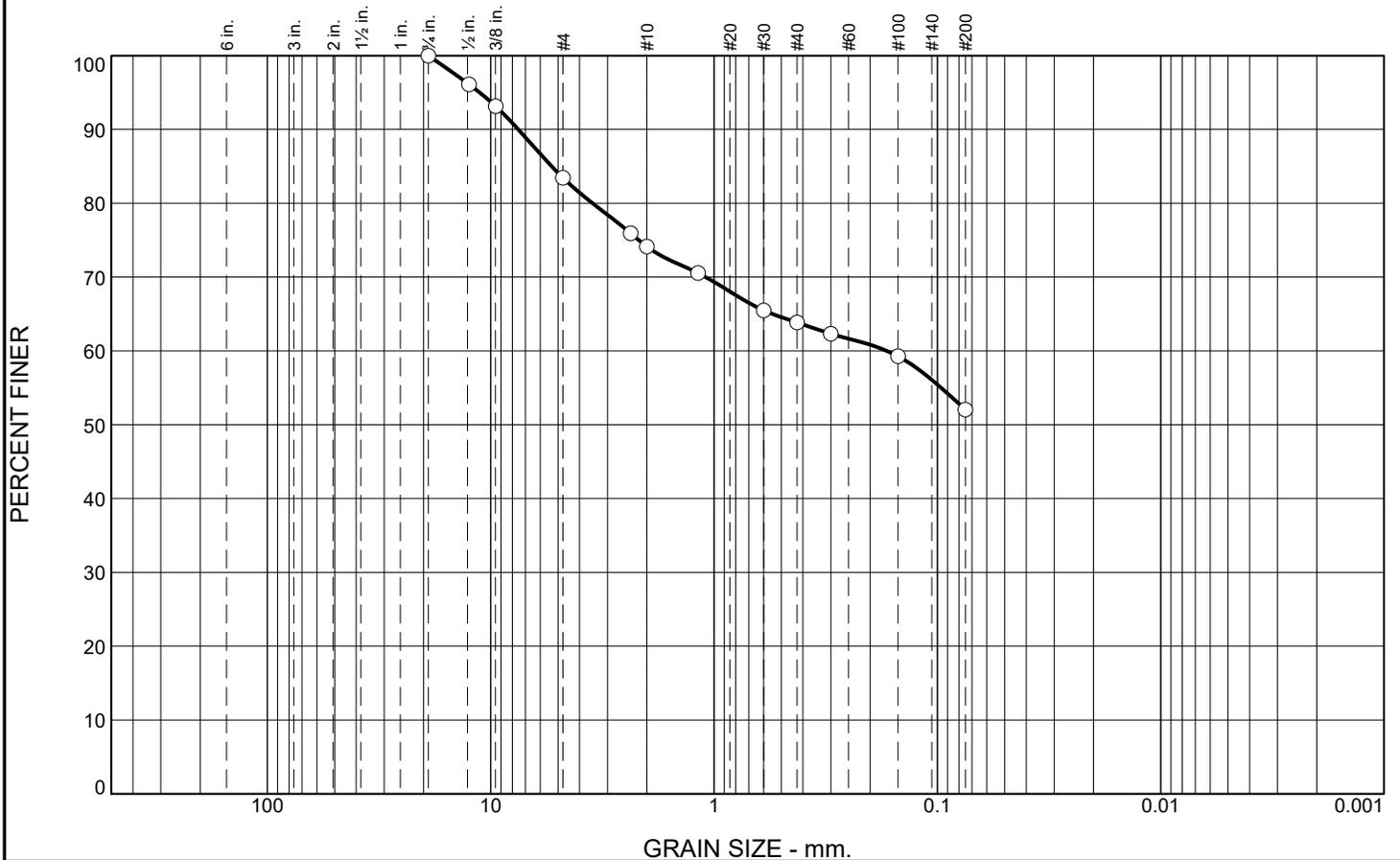
CENTURION CONSULTANTS	NOTES: Groundwater not encountered in the depth excavated.	DATE EXCAVATED: 02/08/2022	PAGE NO: 1 of 1
		PROJECT NO.: 22004	PLATE NO.: 108

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER WITH TIME AND AT OTHER LOCATIONS.

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES	
	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
		CLEAN SANDS (LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES	
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES	
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 40		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS	
				CH	INORGANIC CLAYS OF HIGH PLASTICITY	
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	
Centurion Consultants	CLIENT: Pulte Homes				Materials Classification	
	PROJECT: Three Kids Mine Site Mixed-Use Development					
					22004	109

SAMPLE LOCATION AND DEPTH	MATERIAL DESCRIPTION	EXPANSION(%)	
B-5 @ 15 ft.	Gypsiferous CLAYSTONE	11.6	
B-13 @ 30 ft.	Sandy lean CLAY (FILL)	20.1	
B-16 @ 40 ft.	Sandy lean CLAY (FILL)	11.6	
B-19 @ 25 ft.	Sandy lean CLAY	7.6	
B-23 @ 10 ft.	Clayey SAND	0.3	
B-30 @ 10 ft.	CLAYSTONE (FILL)	4.3	
B-32 @ 20 ft.	Sandy SILT (FILL)	0.7	
TP-19 @ 9-10 ft.	CLAYSTONE/SILTSTONE	0.0	
TP-12 @ 8-9 ft.	SANDSTONE	0.0	
<p style="text-align: center;">Tests performed using 60-psf surcharge load. *Moisture content at time of remolding. All samples are oven dried prior to testing.</p>			
Centurion Consultants	CLIENT: PULTE HOMES	EXPANSION TEST RESULTS	
	PROJECT: THREE KIDS MINE	PROJECT NO.: 22004	PLATE NO.: 110

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	17	31	52	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100		
1/2"	96		
3/8"	93		
#4	83		
#8	76		
#10	74		
#16	71		
#30	65		
#40	64		
#50	62		
#100	59		
#200	52		

Material Description

Sandy fat CLAY with gravel

Atterberg Limits

PL= 28 LL= 55 PI= 27

Coefficients

D₉₀= 7.5242 D₈₅= 5.3332 D₆₀= 0.1682
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= CH AASHTO= A-7-6(11)

Remarks

* (no specification provided)

Source of Sample: B-5 **Depth:** 20 to 25 ft.

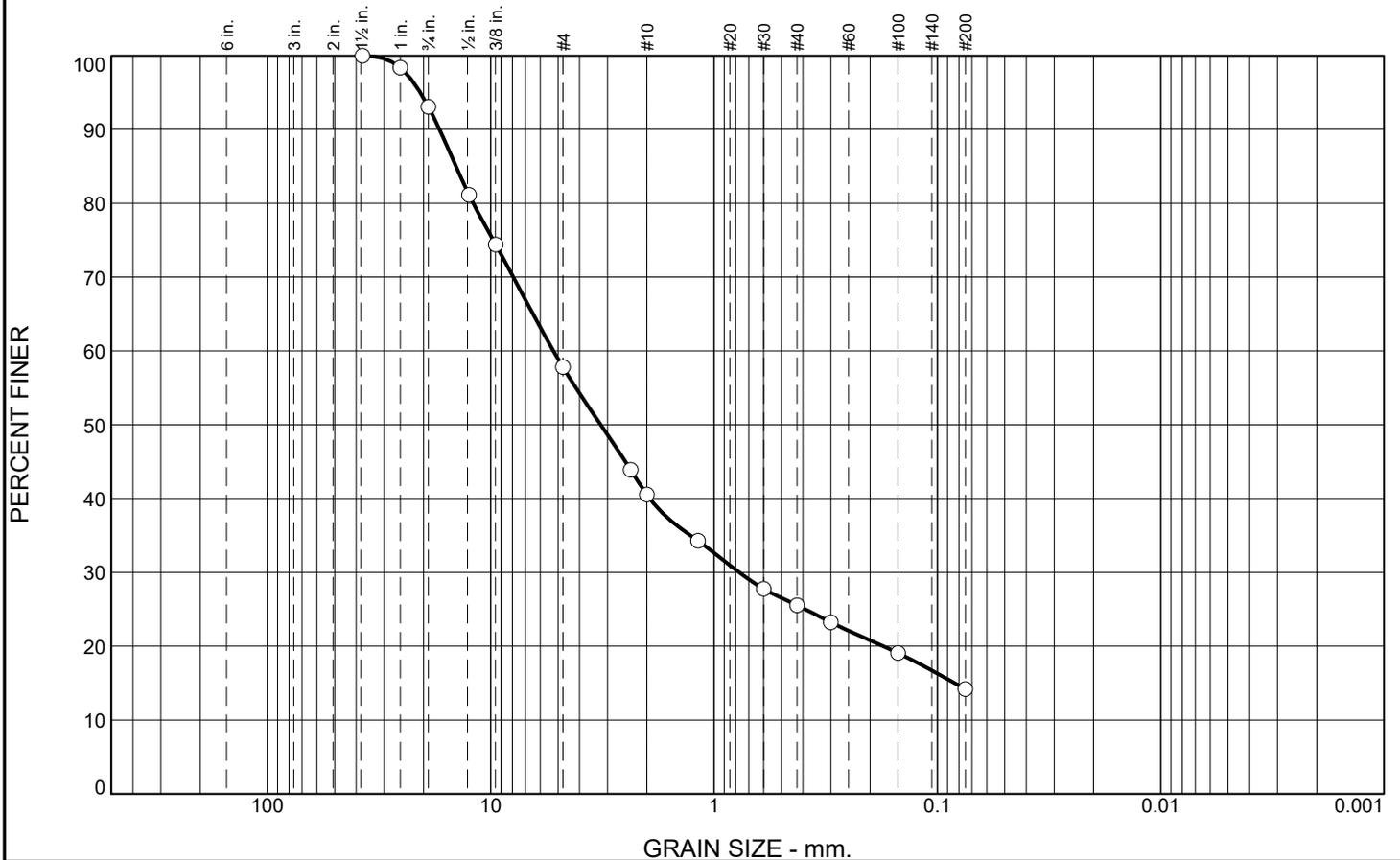
Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111a
----------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP

Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	42	44	14	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	98		
3/4"	93		
1/2"	81		
3/8"	74		
#4	58		
#8	44		
#10	41		
#16	34		
#30	28		
#40	26		
#50	23		
#100	19		
#200	14		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 16.9465 D₈₅= 14.2994 D₆₀= 5.2403
D₅₀= 3.2182 D₃₀= 0.7724 D₁₅= 0.0837
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-a

Remarks

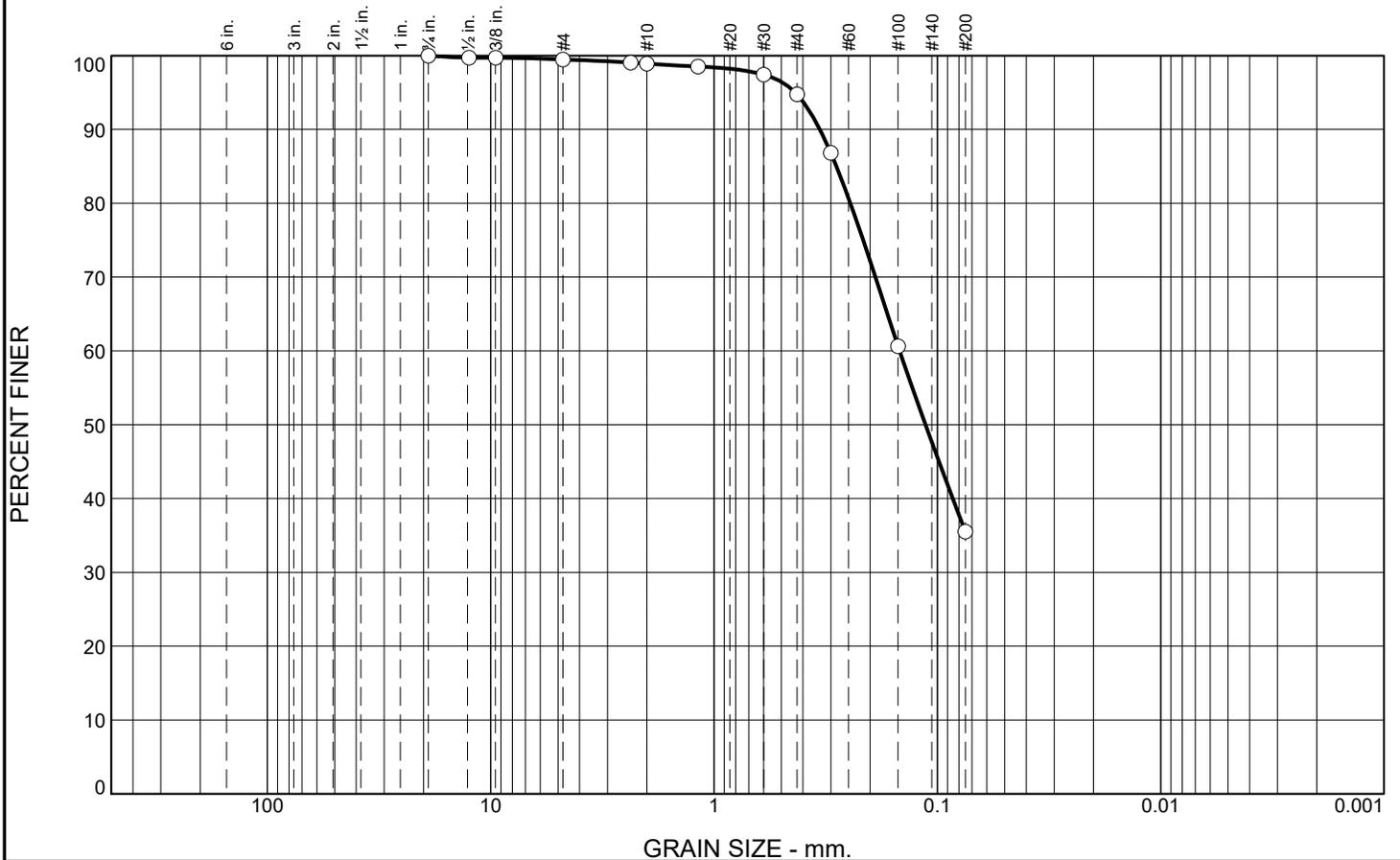
* (no specification provided)

Source of Sample: B-9 Depth: 5 to 10 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111b
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	1	63	36	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100		
1/2"	100		
3/8"	100		
#4	99		
#8	99		
#10	99		
#16	99		
#30	97		
#40	95		
#50	87		
#100	61		
#200	36		

Material Description

Silty SAND

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 0.3360 D₈₅= 0.2831 D₆₀= 0.1476
D₅₀= 0.1131 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

* (no specification provided)

Source of Sample: B-11 **Depth:** 5 to 10 ft.

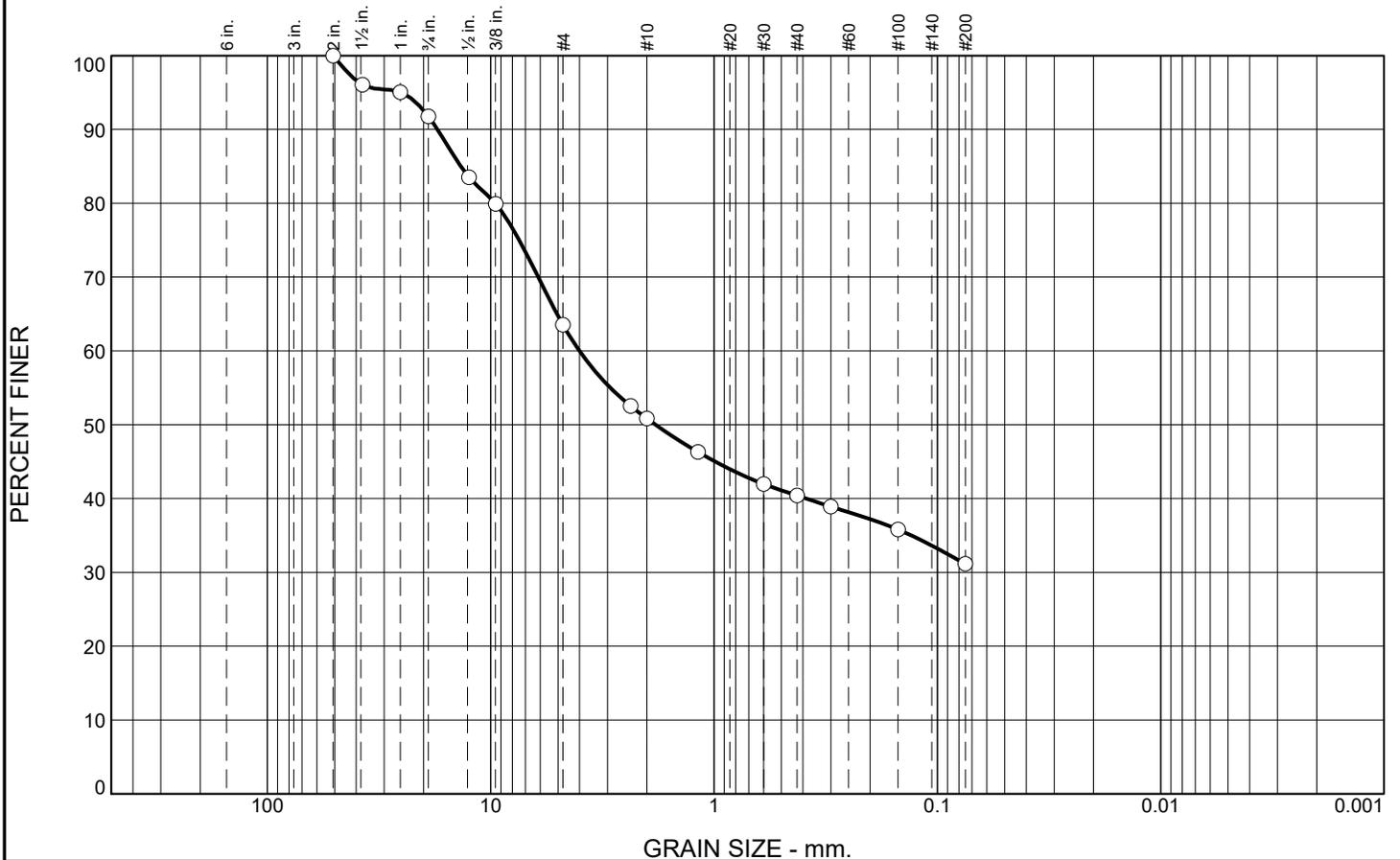
Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111c
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Tested By: DP

Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	36	33	31	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	96		
1"	95		
3/4"	92		
1/2"	84		
3/8"	80		
#4	64		
#8	53		
#10	51		
#16	46		
#30	42		
#40	40		
#50	39		
#100	36		
#200	31		

Material Description

Clayey GRAVEL with sand

Atterberg Limits

PL= 23 LL= 43 PI= 20

Coefficients

D₉₀= 17.3168 D₈₅= 13.6043 D₆₀= 4.0068
D₅₀= 1.8299 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-7(2)

Remarks

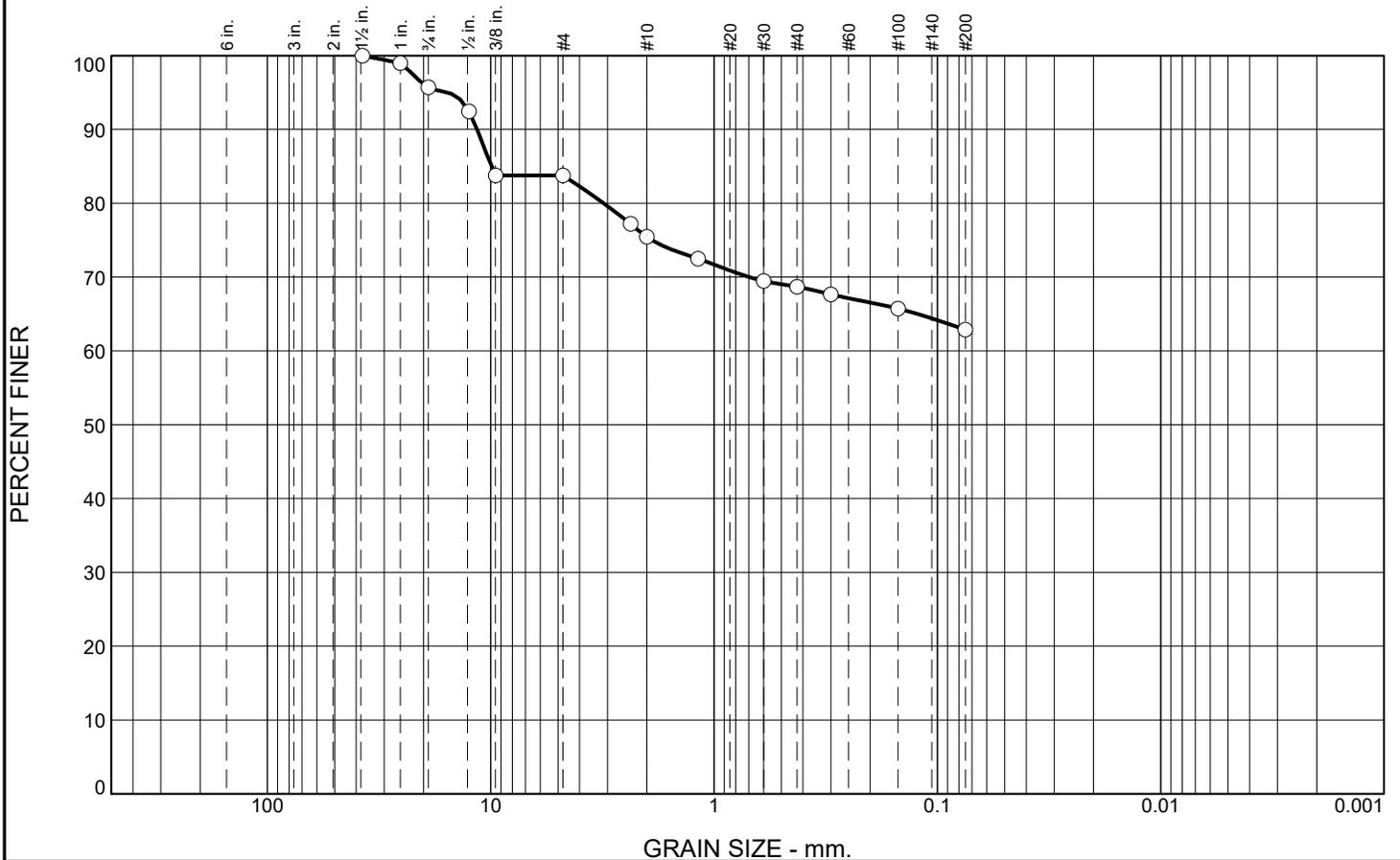
* (no specification provided)

Source of Sample: B-13 Depth: 0 to 5 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111d
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	16	21	63	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	99		
3/4"	96		
1/2"	92		
3/8"	84		
#4	84		
#8	77		
#10	75		
#16	72		
#30	69		
#40	69		
#50	68		
#100	66		
#200	63		

Material Description

Sandy lean CLAY with gravel

Atterberg Limits

PL= 23 LL= 44 PI= 21

Coefficients

D₉₀= 11.4970 D₈₅= 9.9198 D₆₀=
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-7-6(11)

Remarks

* (no specification provided)

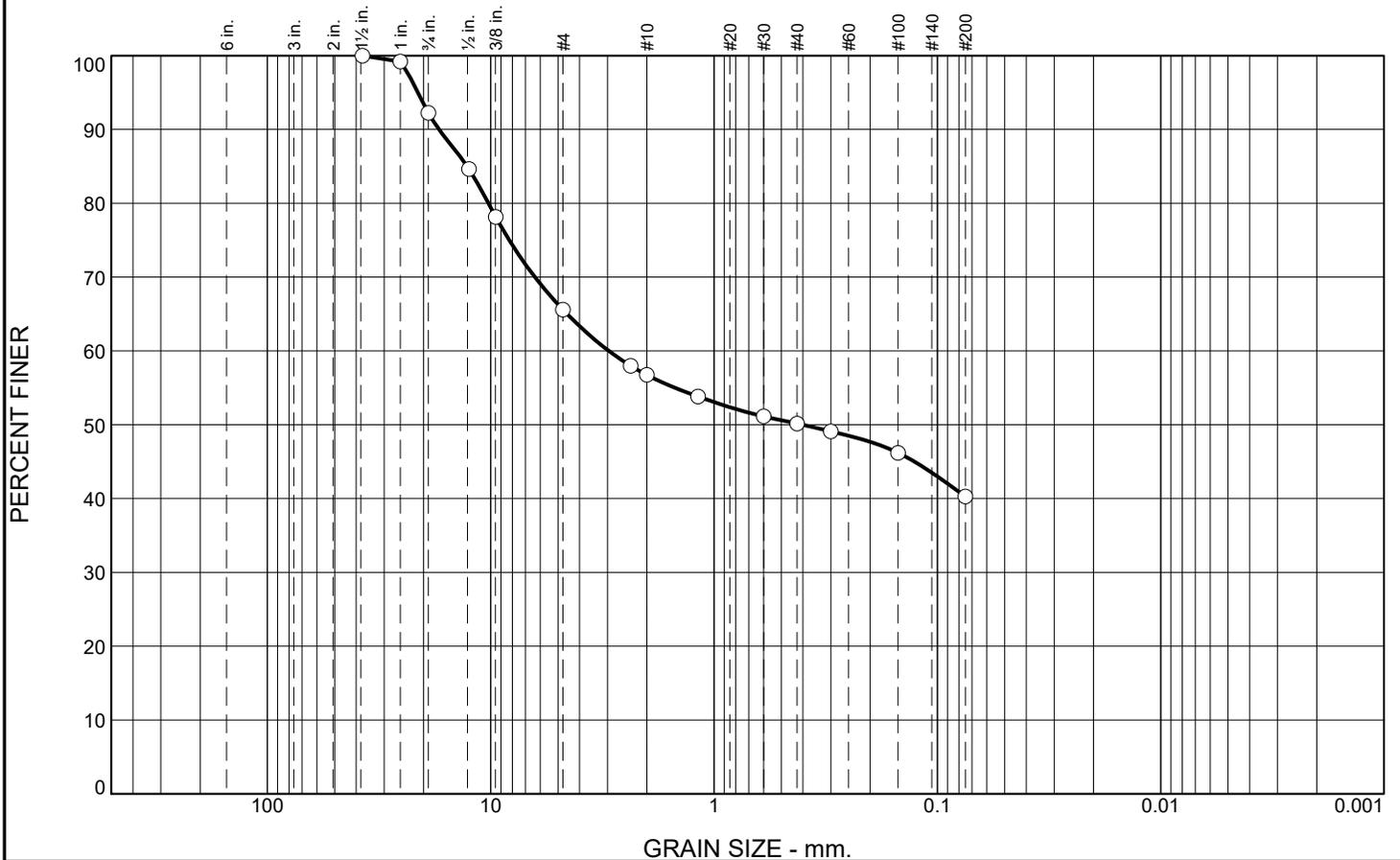
Source of Sample: B-14 **Depth:** 0 to 5 ft.

Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111e
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	34	26	40	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	99		
3/4"	92		
1/2"	85		
3/8"	78		
#4	66		
#8	58		
#10	57		
#16	54		
#30	51		
#40	50		
#50	49		
#100	46		
#200	40		

Material Description

Clayey GRAVEL with sand

Atterberg Limits

PL= 15 LL= 32 PI= 17

Coefficients

D₉₀= 17.0500 D₈₅= 12.7294 D₆₀= 2.9587
D₅₀= 0.4027 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= GC AASHTO= A-6(3)

Remarks

* (no specification provided)

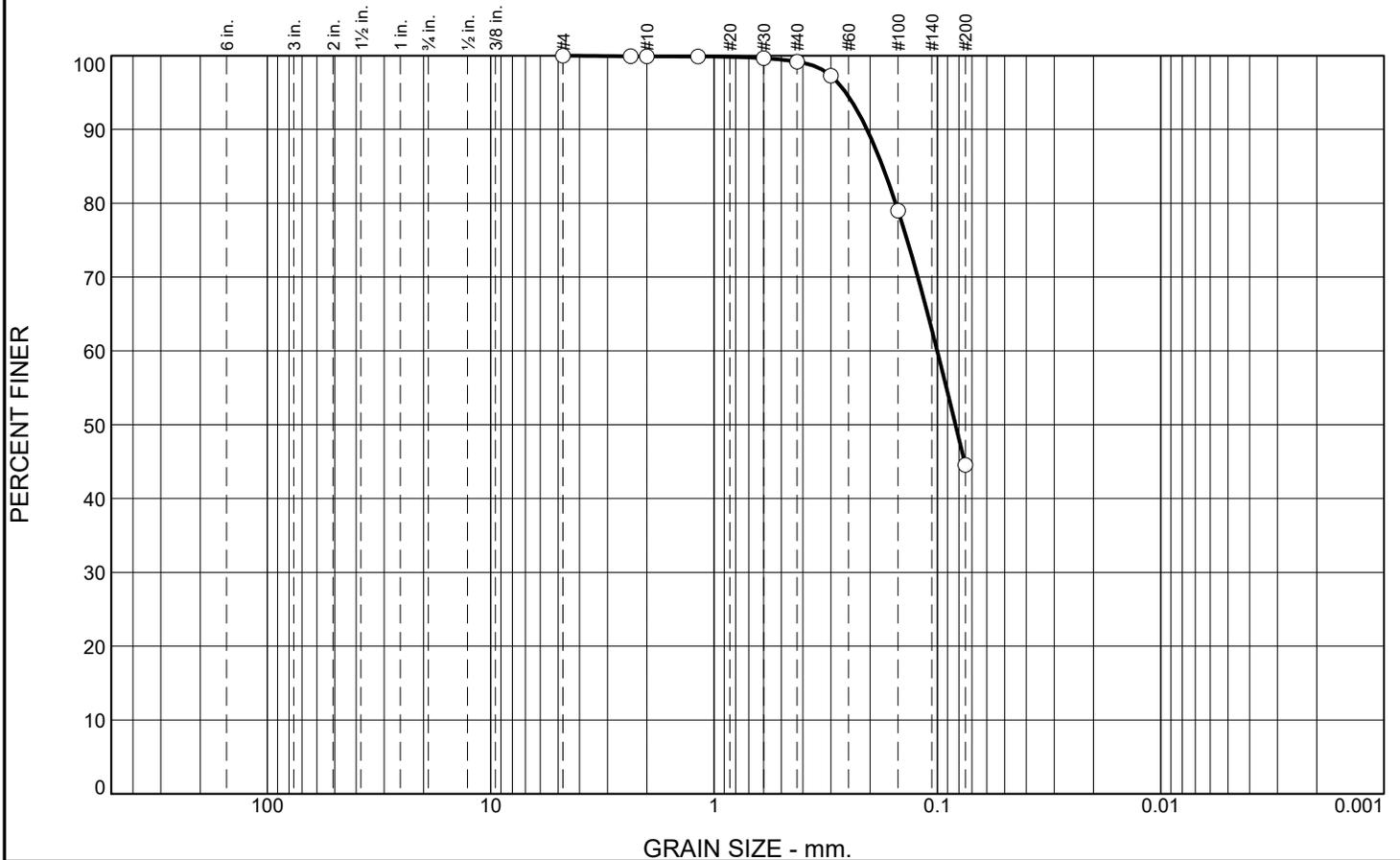
Source of Sample: B-19 Depth: 0 to 5 ft.

Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354
Figure 111f	

Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	0	55	45	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#8	100		
#10	100		
#16	100		
#30	100		
#40	99		
#50	97		
#100	79		
#200	45		

Material Description

Silty SAND

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 0.2067 D₈₅= 0.1760 D₆₀= 0.1002
D₅₀= 0.0829 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

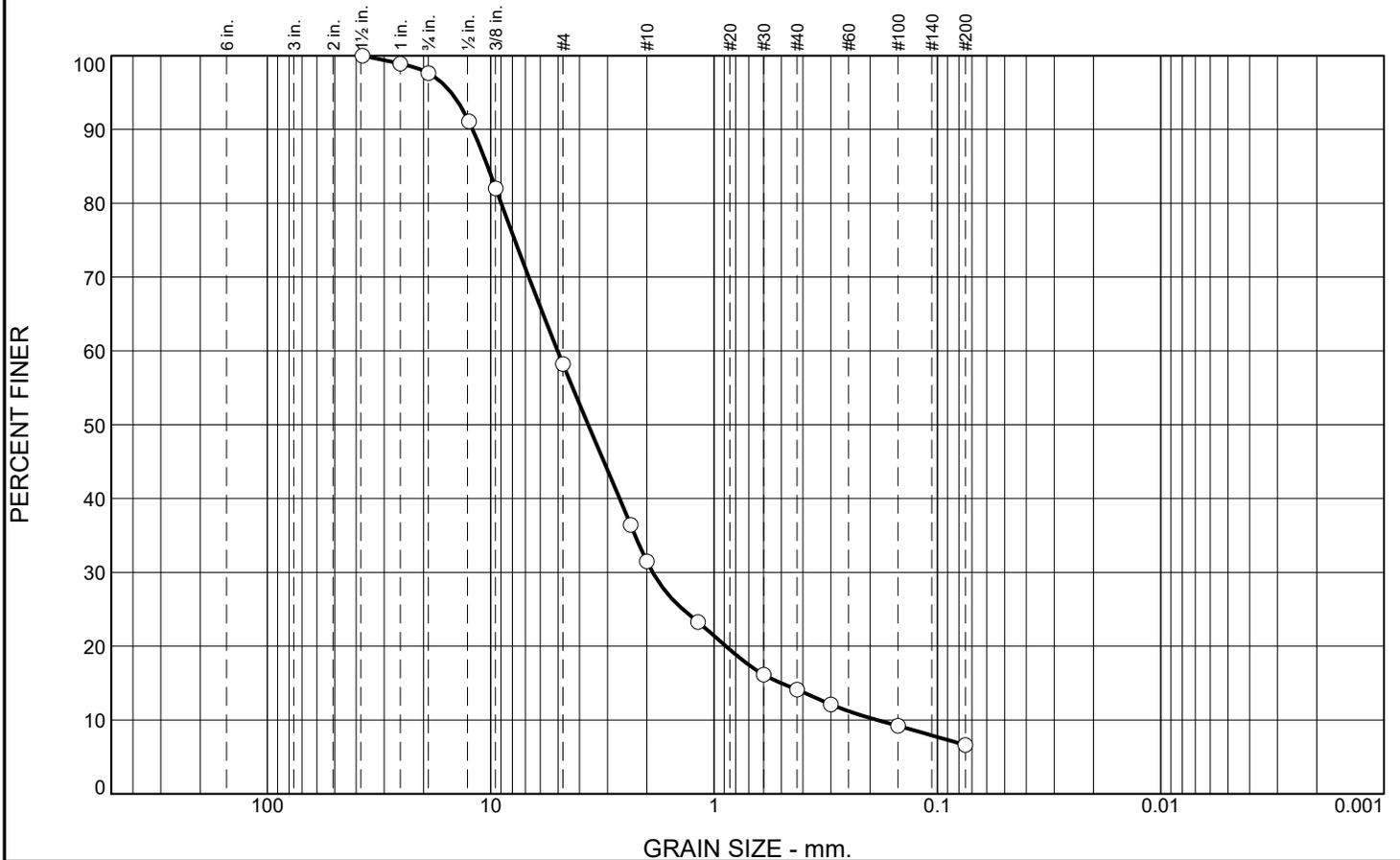
* (no specification provided)

Source of Sample: B-20 Depth: 0 to 5 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111g
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	42	51	7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	99		
3/4"	98		
1/2"	91		
3/8"	82		
#4	58		
#8	36		
#10	31		
#16	23		
#30	16		
#40	14		
#50	12		
#100	9		
#200	7		

Material Description

Poorly graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 12.0299 D₈₅= 10.3304 D₆₀= 5.0177
D₅₀= 3.6600 D₃₀= 1.8830 D₁₅= 0.5021
D₁₀= 0.1863 C_u= 26.93 C_c= 3.79

Classification

USCS= SP-SM AASHTO= A-1-a

Remarks

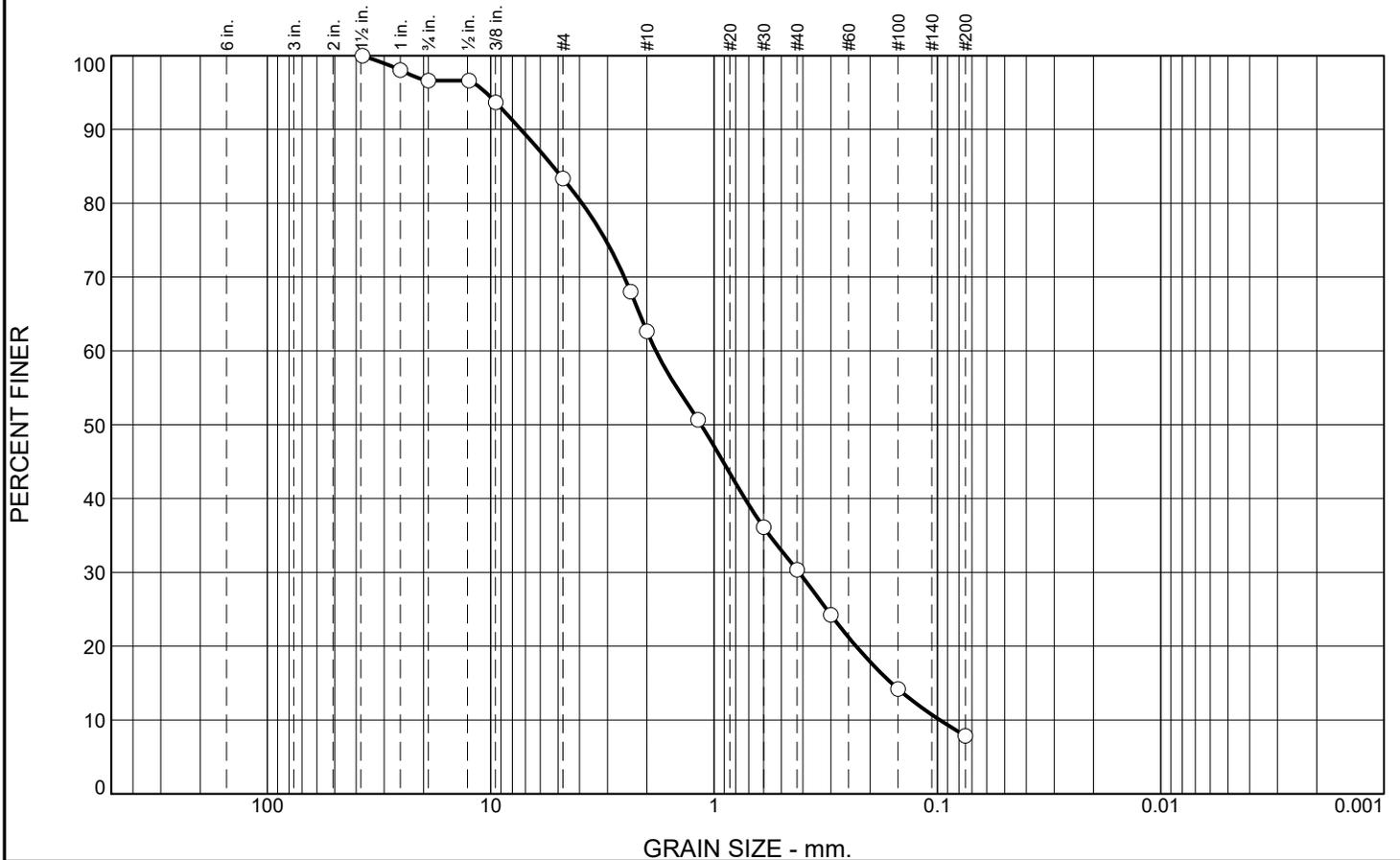
* (no specification provided)

Source of Sample: B-21 Depth: 0 to 5 ft. Date: 3/23/22

<p>Nova Geotechnical and Inspection Services Las Vegas, Nevada</p>	<p>Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111h</p>
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	17	75	8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	98		
3/4"	97		
1/2"	97		
3/8"	94		
#4	83		
#8	68		
#10	63		
#16	51		
#30	36		
#40	30		
#50	24		
#100	14		
#200	8		

Material Description

Poorly graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 7.3276 D₈₅= 5.2628 D₆₀= 1.8217
D₅₀= 1.1434 D₃₀= 0.4164 D₁₅= 0.1606
D₁₀= 0.0975 C_u= 18.69 C_c= 0.98

Classification

USCS= SP-SM AASHTO= A-1-b

Remarks

* (no specification provided)

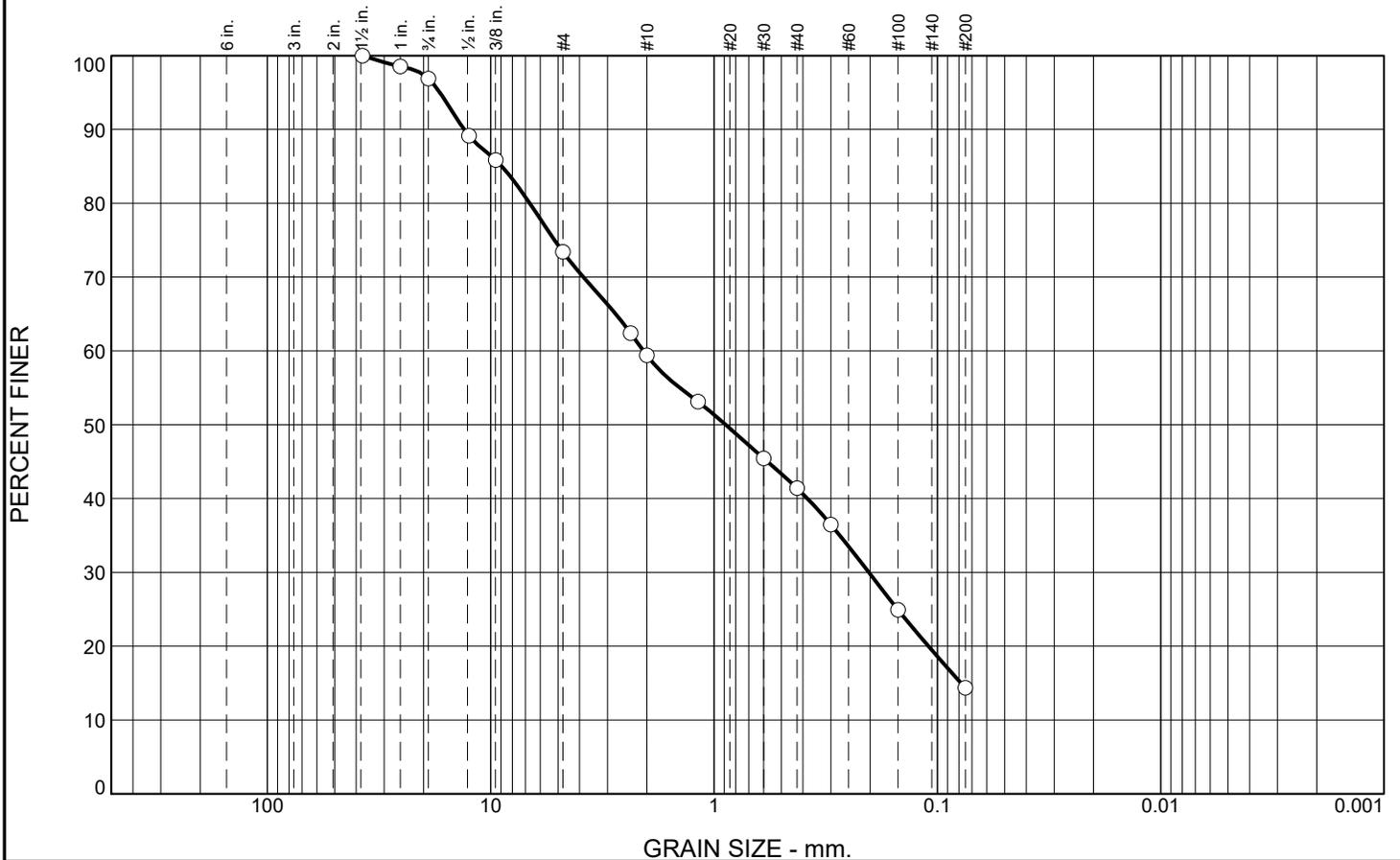
Source of Sample: B-22 Depth: 0 to 5 ft.

Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	<p>Client: Pulte Homes</p> <p>Project: Three Kids Mine Site Mixed-Use Development</p> <p>Project No: 4030.2100354</p>
	<p>Figure 111i</p>

Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	27	59	14	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	99		
3/4"	97		
1/2"	89		
3/8"	86		
#4	73		
#8	62		
#10	59		
#16	53		
#30	45		
#40	41		
#50	36		
#100	25		
#200	14		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 13.1486 D₈₅= 8.9167 D₆₀= 2.0708
D₅₀= 0.8875 D₃₀= 0.2029 D₁₅= 0.0784
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

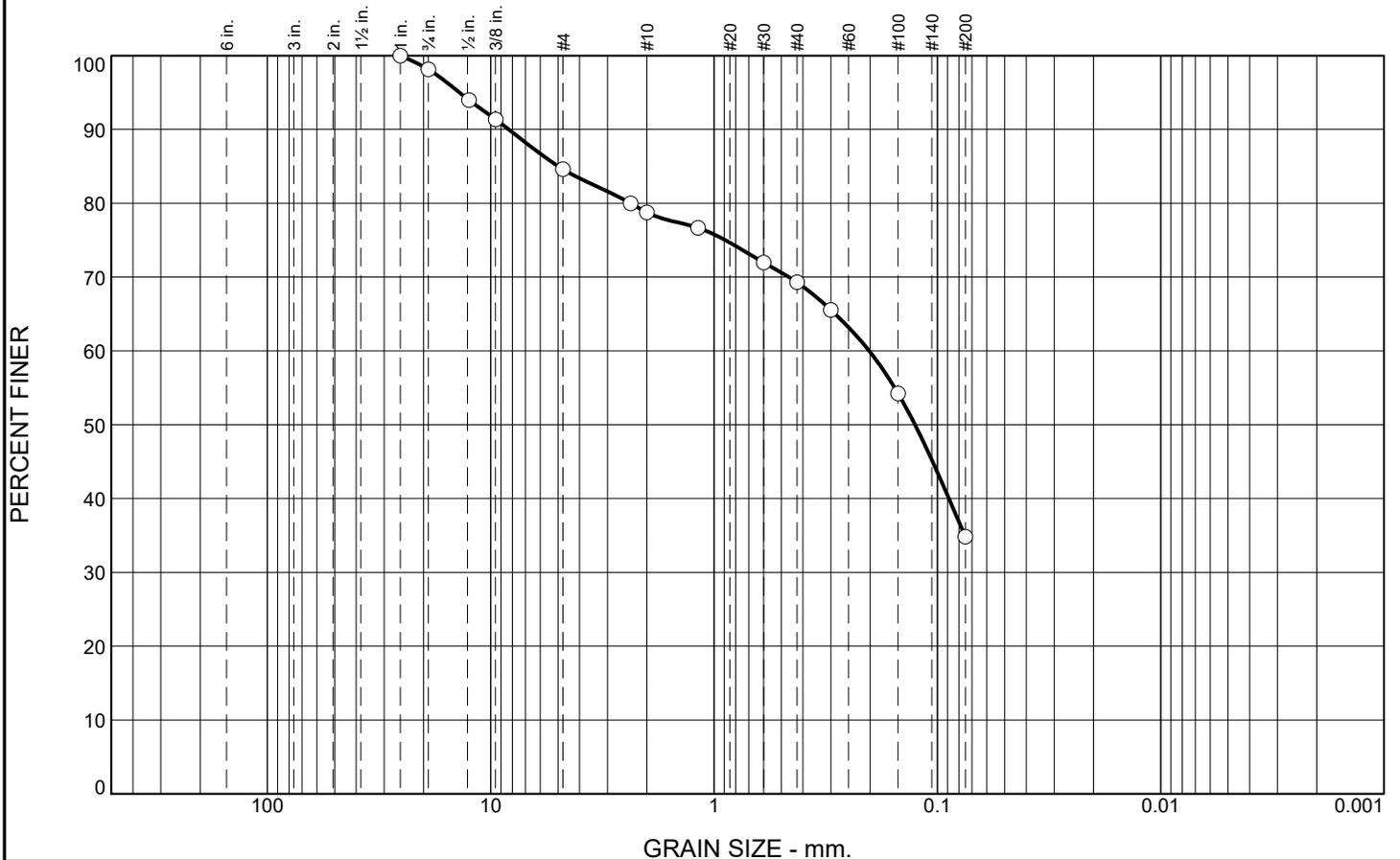
* (no specification provided)

Source of Sample: B-23 Depth: 0 to 5 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111j
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	15	50	35	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100		
3/4"	98		
1/2"	94		
3/8"	91		
#4	85		
#8	80		
#10	79		
#16	77		
#30	72		
#40	69		
#50	66		
#100	54		
#200	35		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 8.2947 D₈₅= 4.9765 D₆₀= 0.2020
D₅₀= 0.1260 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

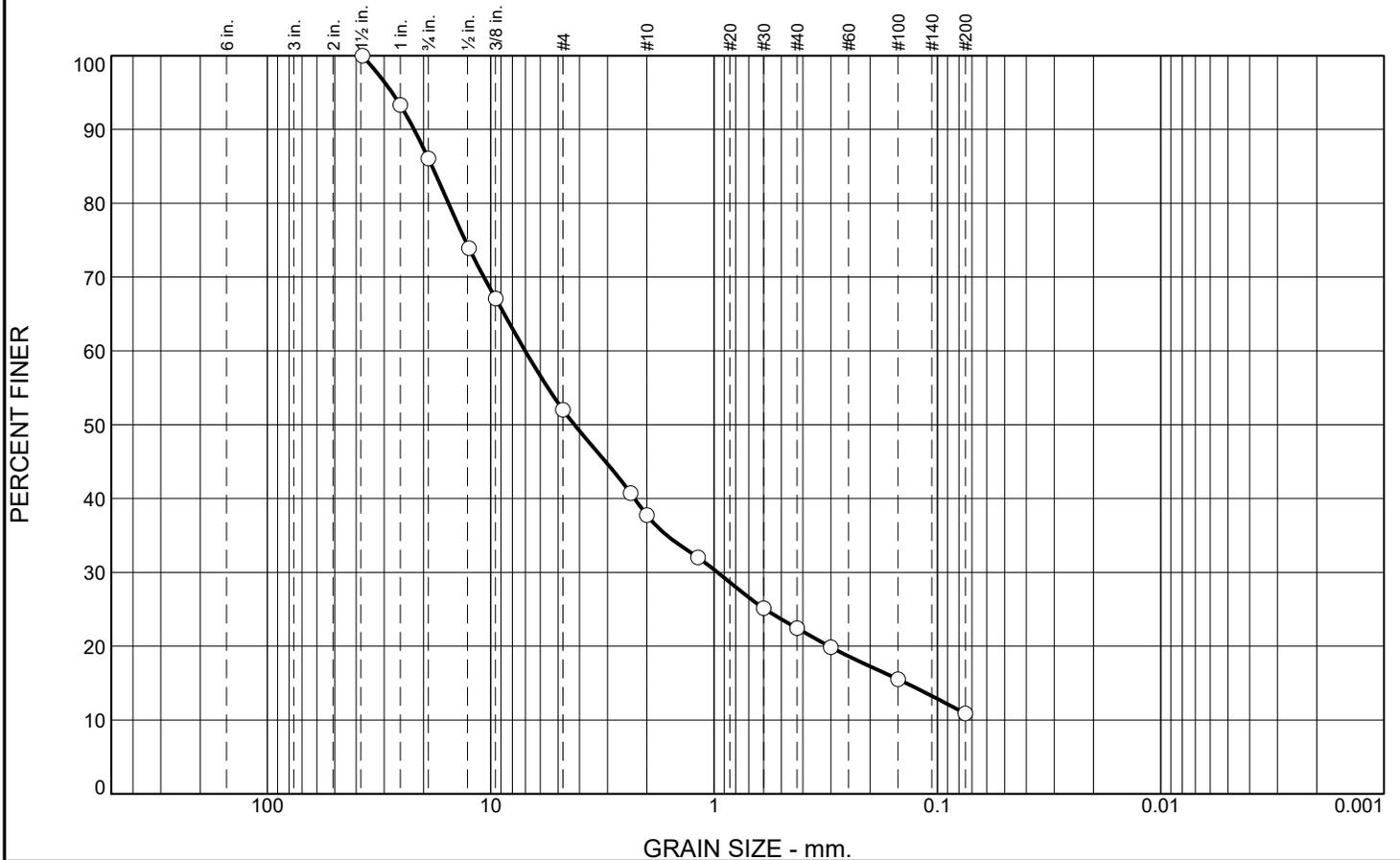
* (no specification provided)

Source of Sample: B-24 Depth: 0 to 5 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111k
----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	48	41	11	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	93		
3/4"	86		
1/2"	74		
3/8"	67		
#4	52		
#8	41		
#10	38		
#16	32		
#30	25		
#40	22		
#50	20		
#100	16		
#200	11		

Material Description

Poorly graded GRAVEL with clay and sand

Atterberg Limits

PL= 22 LL= 45 PI= 23

Coefficients

D₉₀= 22.0130 D₈₅= 18.3032 D₆₀= 7.0064
D₅₀= 4.2201 D₃₀= 0.9646 D₁₅= 0.1383
D₁₀= C_u= C_c=

Classification

USCS= GP-GC AASHTO= A-2-7(0)

Remarks

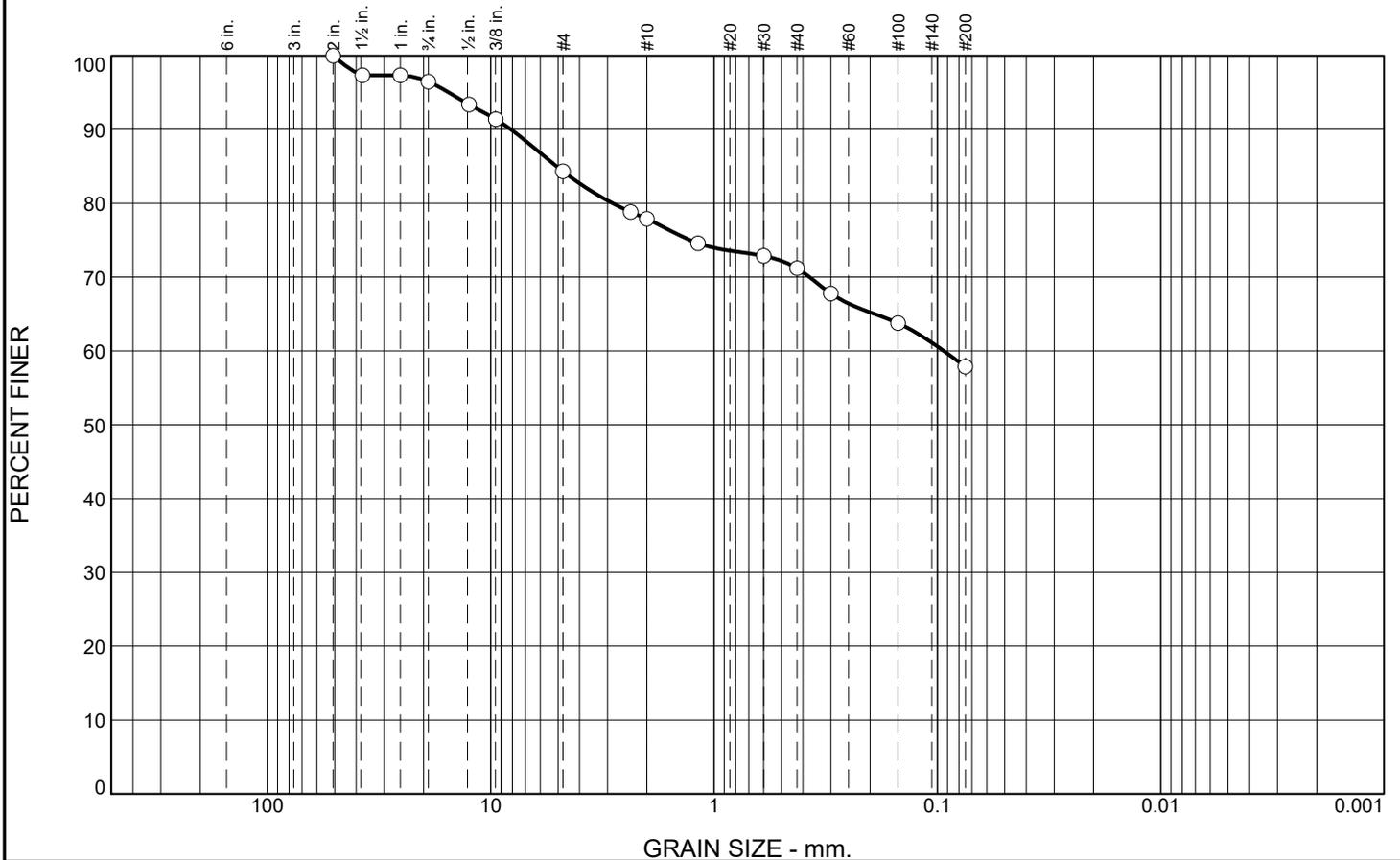
* (no specification provided)

Source of Sample: B-27 Depth: 0 to 5 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 1111
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	16	26	58	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	97		
1"	97		
3/4"	96		
1/2"	93		
3/8"	91		
#4	84		
#8	79		
#10	78		
#16	75		
#30	73		
#40	71		
#50	68		
#100	64		
#200	58		

Material Description

Sandy lean CLAY with gravel

Atterberg Limits

PL= 21 LL= 44 PI= 23

Coefficients

D₉₀= 8.1172 D₈₅= 5.0673 D₆₀= 0.0936
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-7-6(11)

Remarks

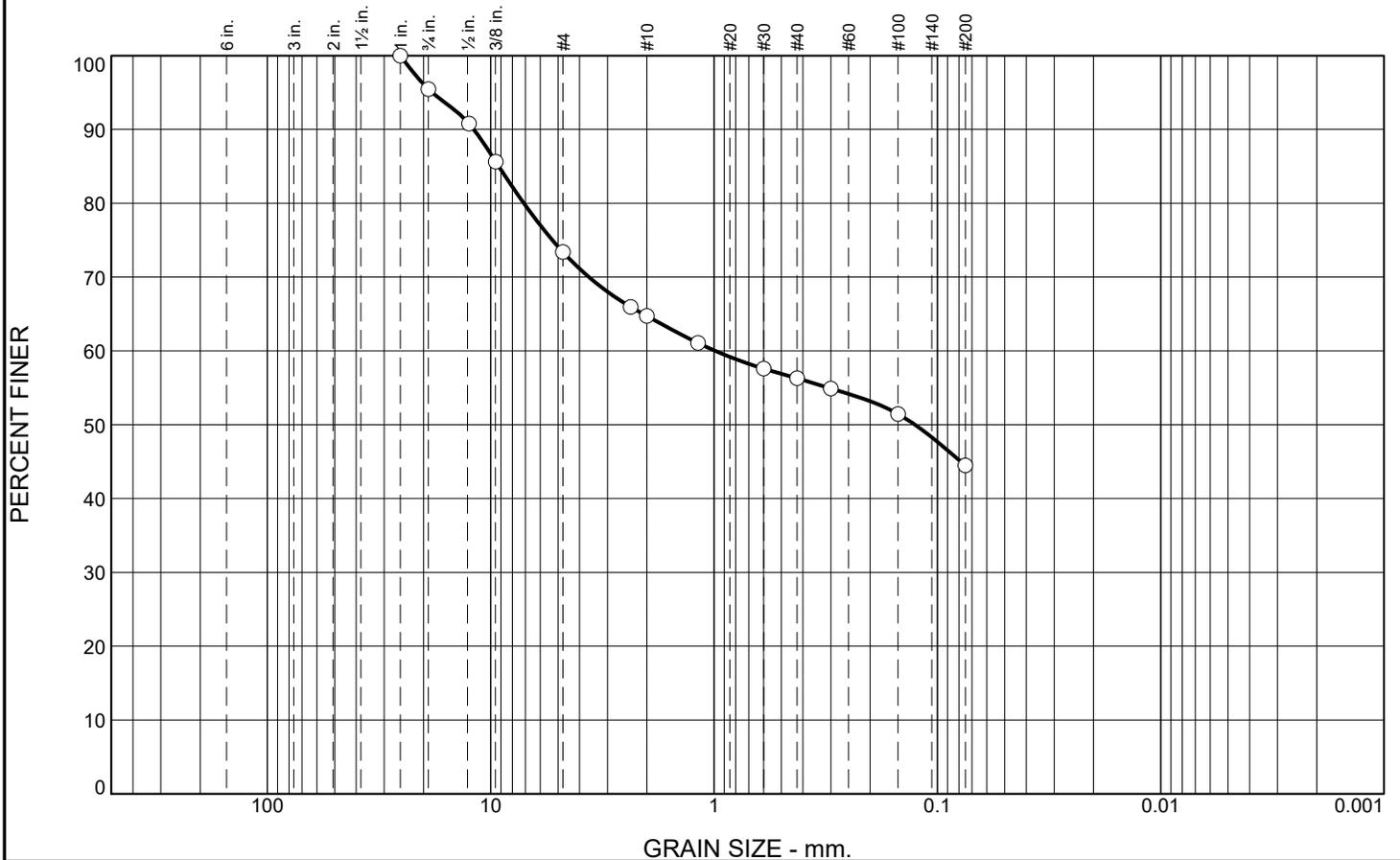
* (no specification provided)

Source of Sample: B-28 **Depth:** 0 to 5 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111m
----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	27	29	44	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100		
3/4"	95		
1/2"	91		
3/8"	86		
#4	73		
#8	66		
#10	65		
#16	61		
#30	58		
#40	56		
#50	55		
#100	51		
#200	44		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= 28 LL= 47 PI= 19

Coefficients

D₉₀= 11.8986 D₈₅= 9.2074 D₆₀= 0.9870
D₅₀= 0.1261 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-7-6(5)

Remarks

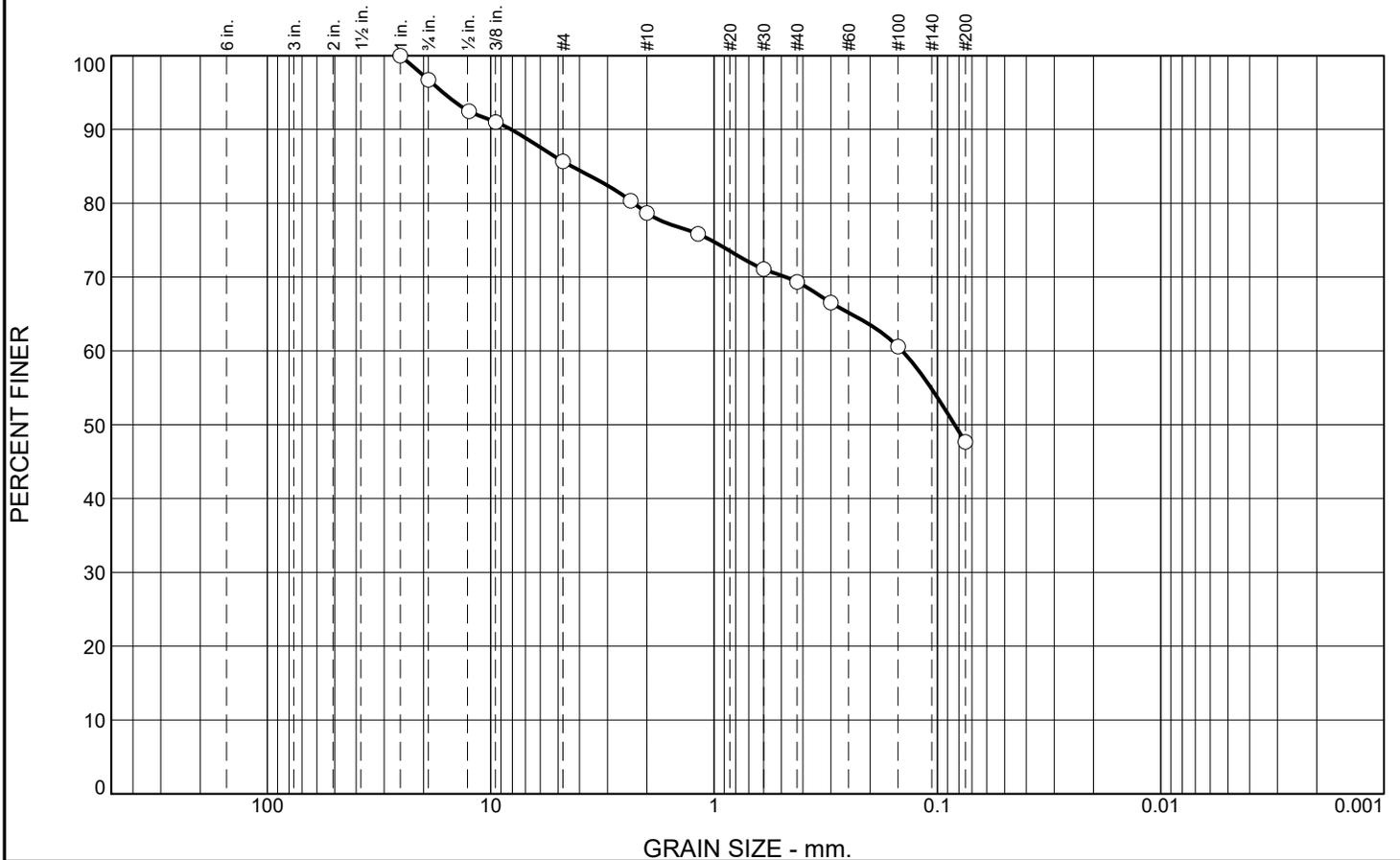
* (no specification provided)

Source of Sample: B-30 **Depth:** 0 to 5 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111n
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	14	38	48	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100		
3/4"	97		
1/2"	92		
3/8"	91		
#4	86		
#8	80		
#10	79		
#16	76		
#30	71		
#40	69		
#50	67		
#100	61		
#200	48		

Material Description

Clayey SAND

Atterberg Limits

PL= 22 LL= 43 PI= 21

Coefficients

D₉₀= 8.1081 D₈₅= 4.3353 D₆₀= 0.1437
D₅₀= 0.0837 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SC AASHTO= A-7-6(6)

Remarks

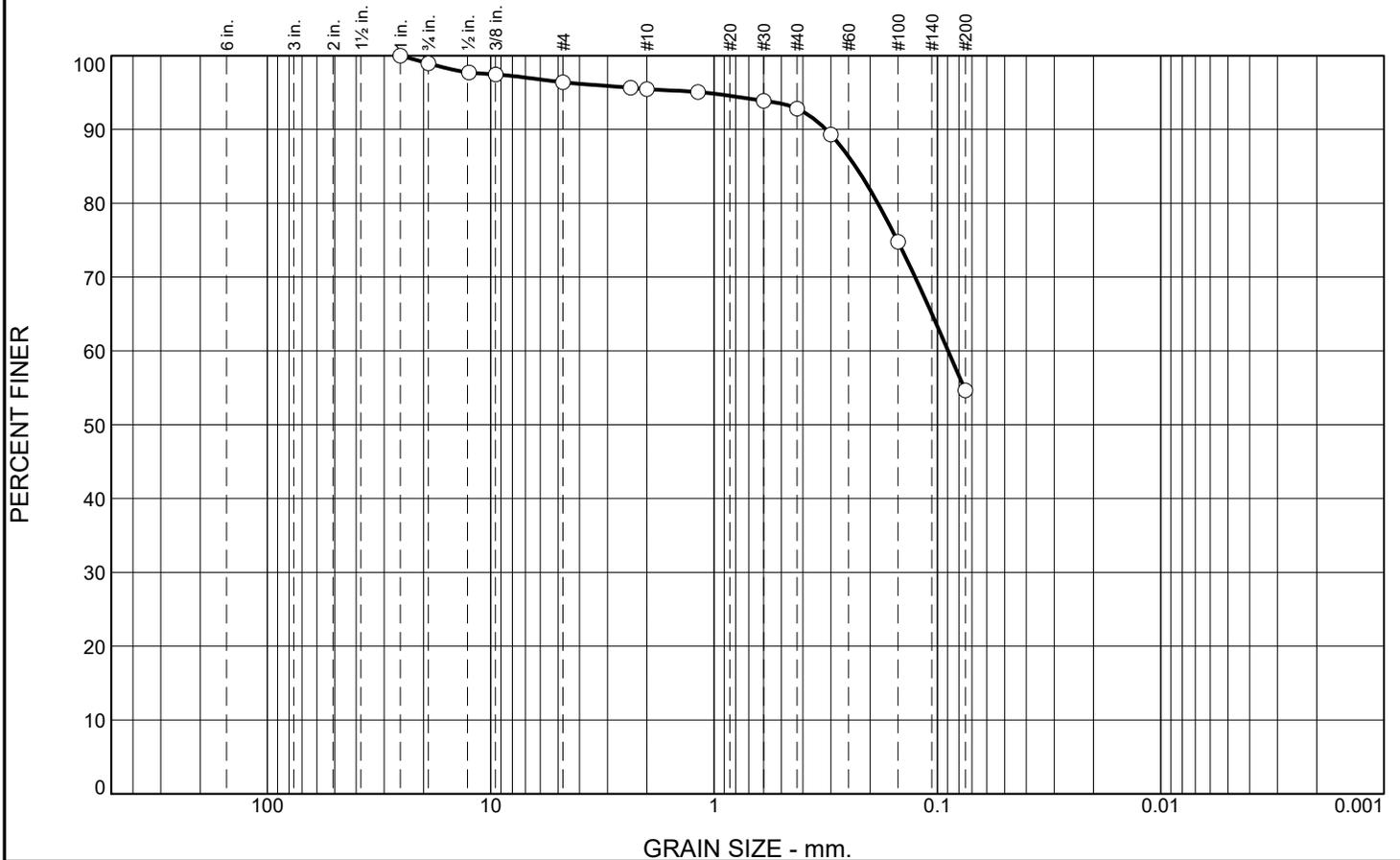
* (no specification provided)

Source of Sample: B-31 **Depth:** 0 to 5 ft. **Date:** 3-23-22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111o
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	4	41	55	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100		
3/4"	99		
1/2"	98		
3/8"	97		
#4	96		
#8	96		
#10	95		
#16	95		
#30	94		
#40	93		
#50	89		
#100	75		
#200	55		

Material Description

Sandy lean CLAY

Atterberg Limits

PL= 27 LL= 45 PI= 18

Coefficients

D₉₀= 0.3155 D₈₅= 0.2328 D₆₀= 0.0895
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-7-6(8)

Remarks

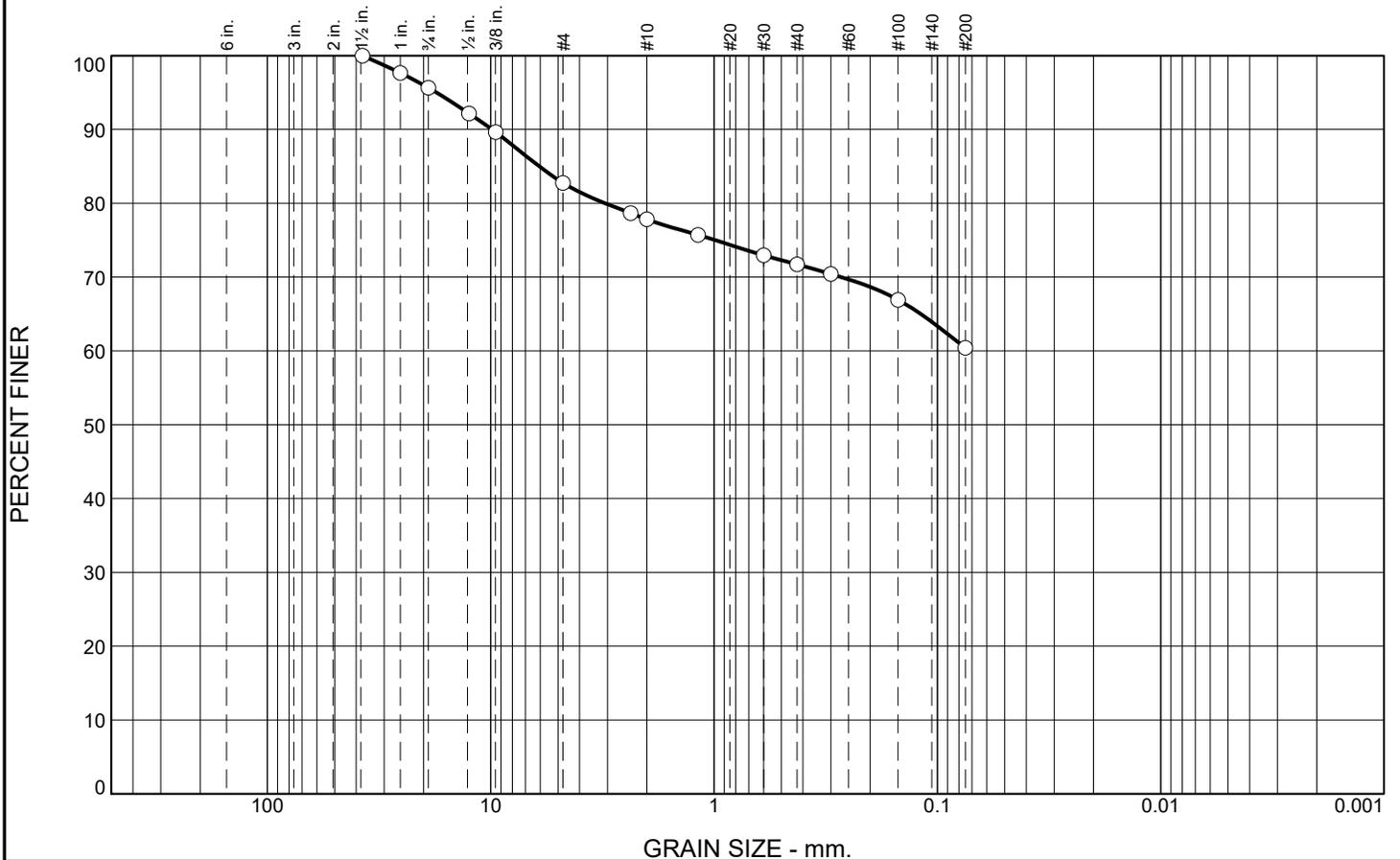
* (no specification provided)

Source of Sample: B-32 Depth: 0 to 5 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111p
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	17	23	60	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	98		
3/4"	96		
1/2"	92		
3/8"	90		
#4	83		
#8	79		
#10	78		
#16	76		
#30	73		
#40	72		
#50	70		
#100	67		
#200	60		

Material Description

PL= NP **Atterberg Limits** LL= NV PI= NP

D₉₀= 9.8647 **Coefficients** D₈₅= 6.0613 D₆₀=

D₅₀= D₃₀= D₁₅=

D₁₀= C_u= C_c=

USCS= ML **Classification** AASHTO= A-4(0)

Remarks

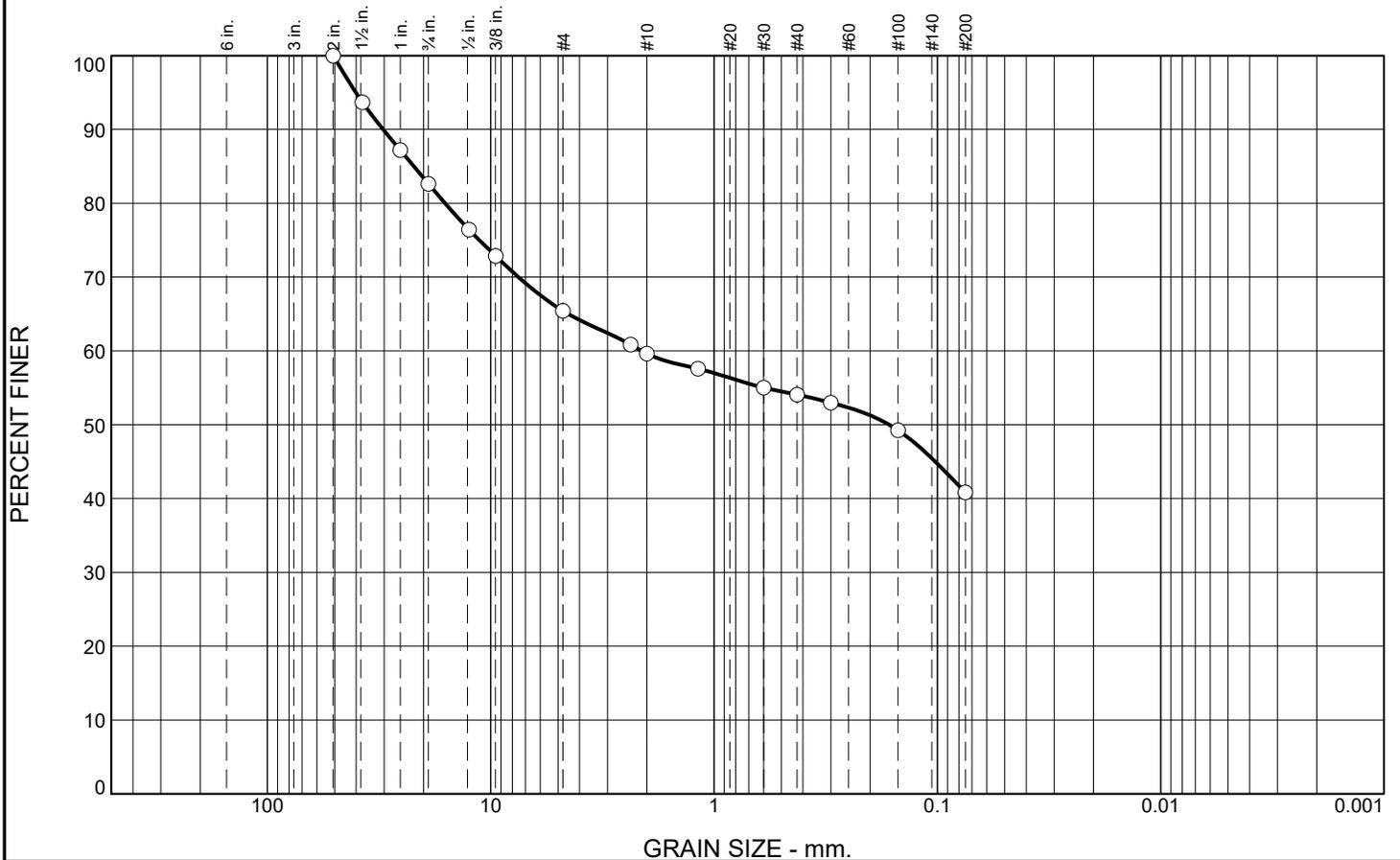
* (no specification provided)

Source of Sample: MM-311-20 Depth: 17 to 20 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111q
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	35	24	41	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	94		
1"	87		
3/4"	83		
1/2"	76		
3/8"	73		
#4	65		
#8	61		
#10	60		
#16	58		
#30	55		
#40	54		
#50	53		
#100	49		
#200	41		

Material Description

Silty GRAVEL with sand

Atterberg Limits

PL= 32 LL= 43 PI= 11

Coefficients

D₉₀= 30.3456 D₈₅= 22.0802 D₆₀= 2.1064
D₅₀= 0.1644 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= GM AASHTO= A-7-5(2)

Remarks

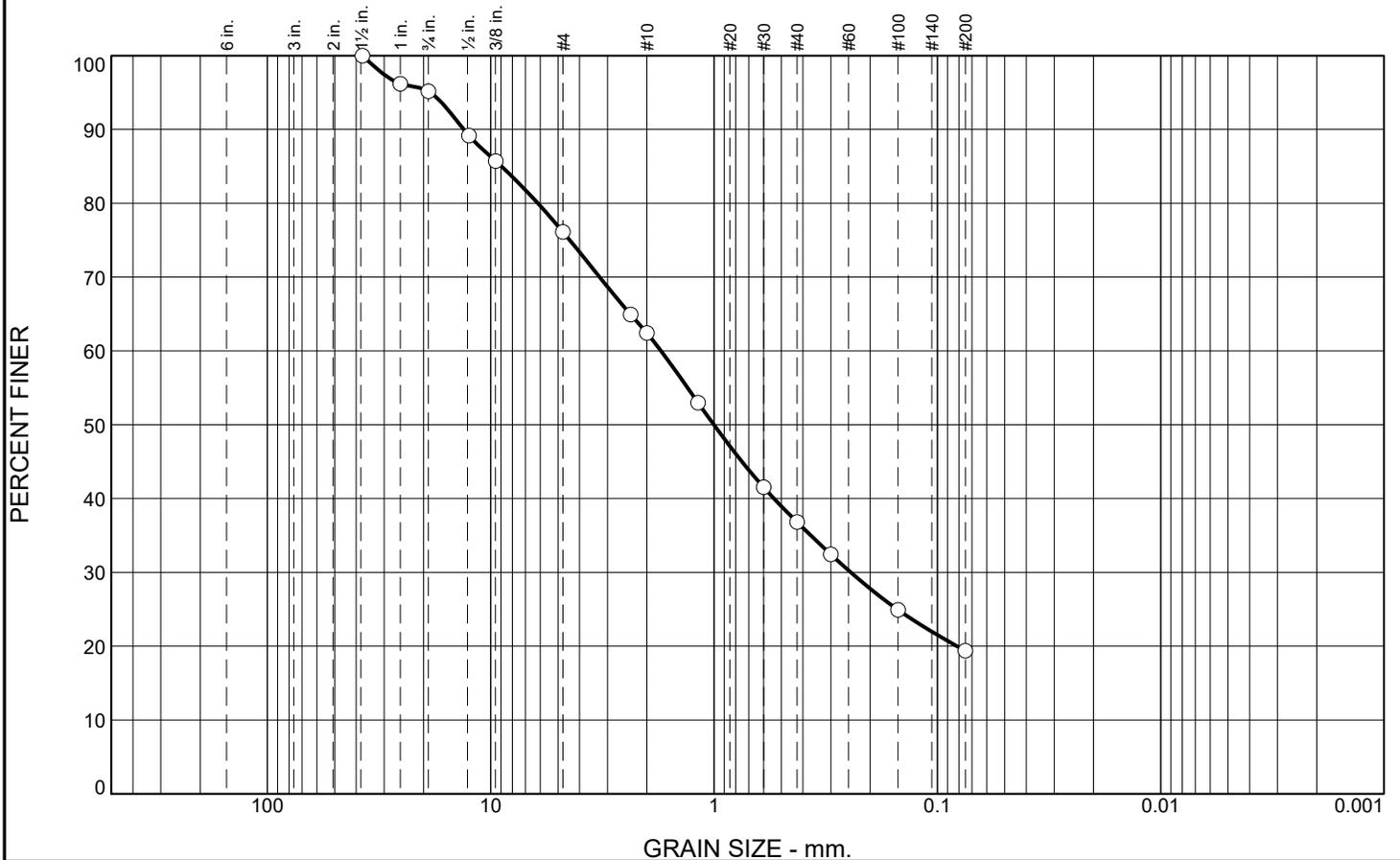
* (no specification provided)

Source of Sample: MM-311-21 Depth: 10 to 13 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111r
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	24	57	19	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	96		
3/4"	95		
1/2"	89		
3/8"	86		
#4	76		
#8	65		
#10	62		
#16	53		
#30	42		
#40	37		
#50	32		
#100	25		
#200	19		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 13.2020 D₈₅= 8.9471 D₆₀= 1.7279
D₅₀= 1.0027 D₃₀= 0.2442 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

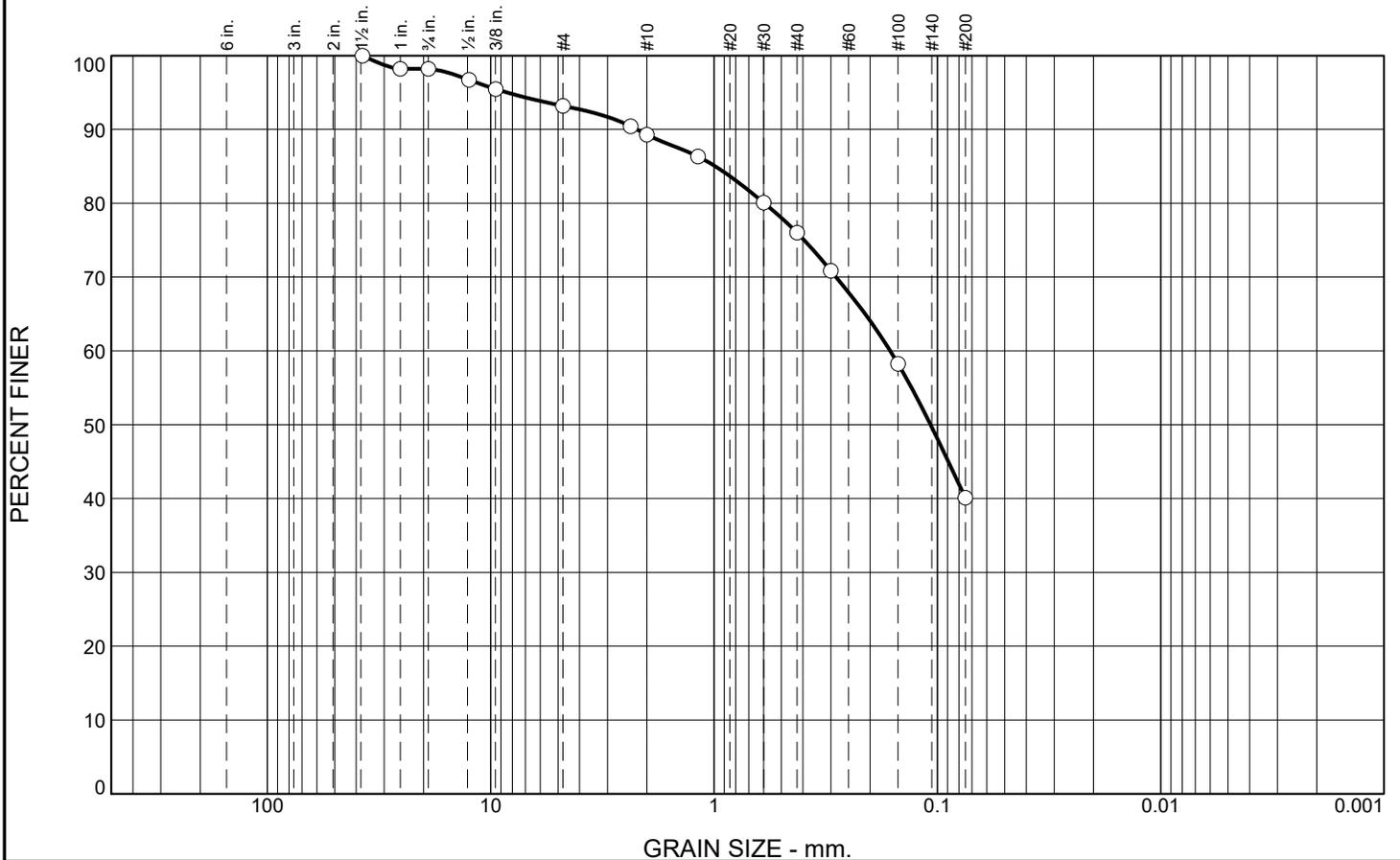
* (no specification provided)

Source of Sample: MM-311-26 **Depth:** 6 to 8 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111s
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	7	53	40	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	98		
3/4"	98		
1/2"	97		
3/8"	95		
#4	93		
#8	90		
#10	89		
#16	86		
#30	80		
#40	76		
#50	71		
#100	58		
#200	40		

Material Description

Silty SAND

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 2.2172 D₈₅= 0.9867 D₆₀= 0.1626
D₅₀= 0.1073 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

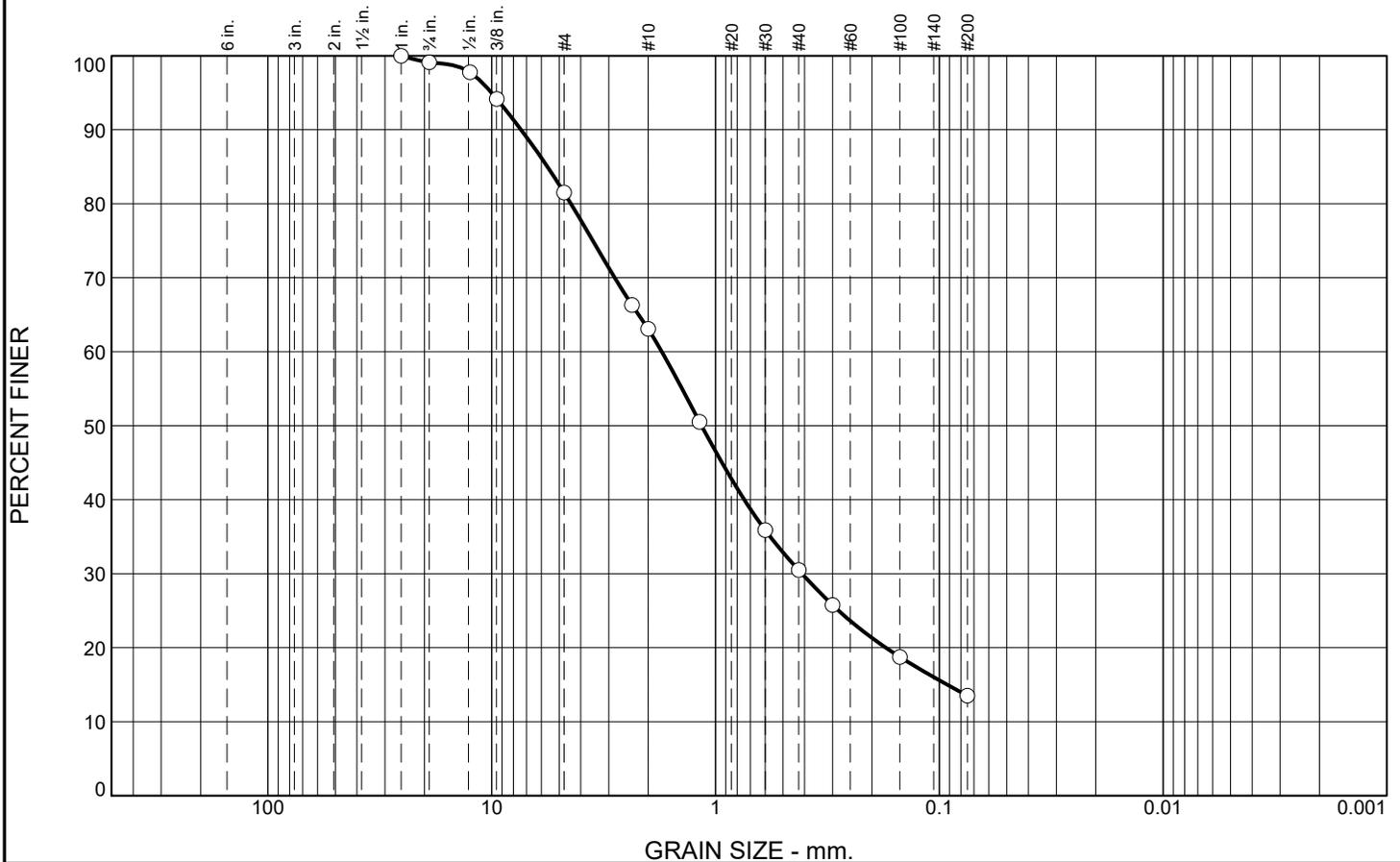
* (no specification provided)

Source of Sample: MM-321-02 **Depth:** 10 to 13 ft. **Date:** 3/18/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111t
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	18	68	14	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100		
3/4"	99		
1/2"	98		
3/8"	94		
#4	82		
#8	66		
#10	63		
#16	51		
#30	36		
#40	30		
#50	26		
#100	19		
#200	14		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 7.3925 D₈₅= 5.6388 D₆₀= 1.7363
 D₅₀= 1.1551 D₃₀= 0.4109 D₁₅= 0.0923
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

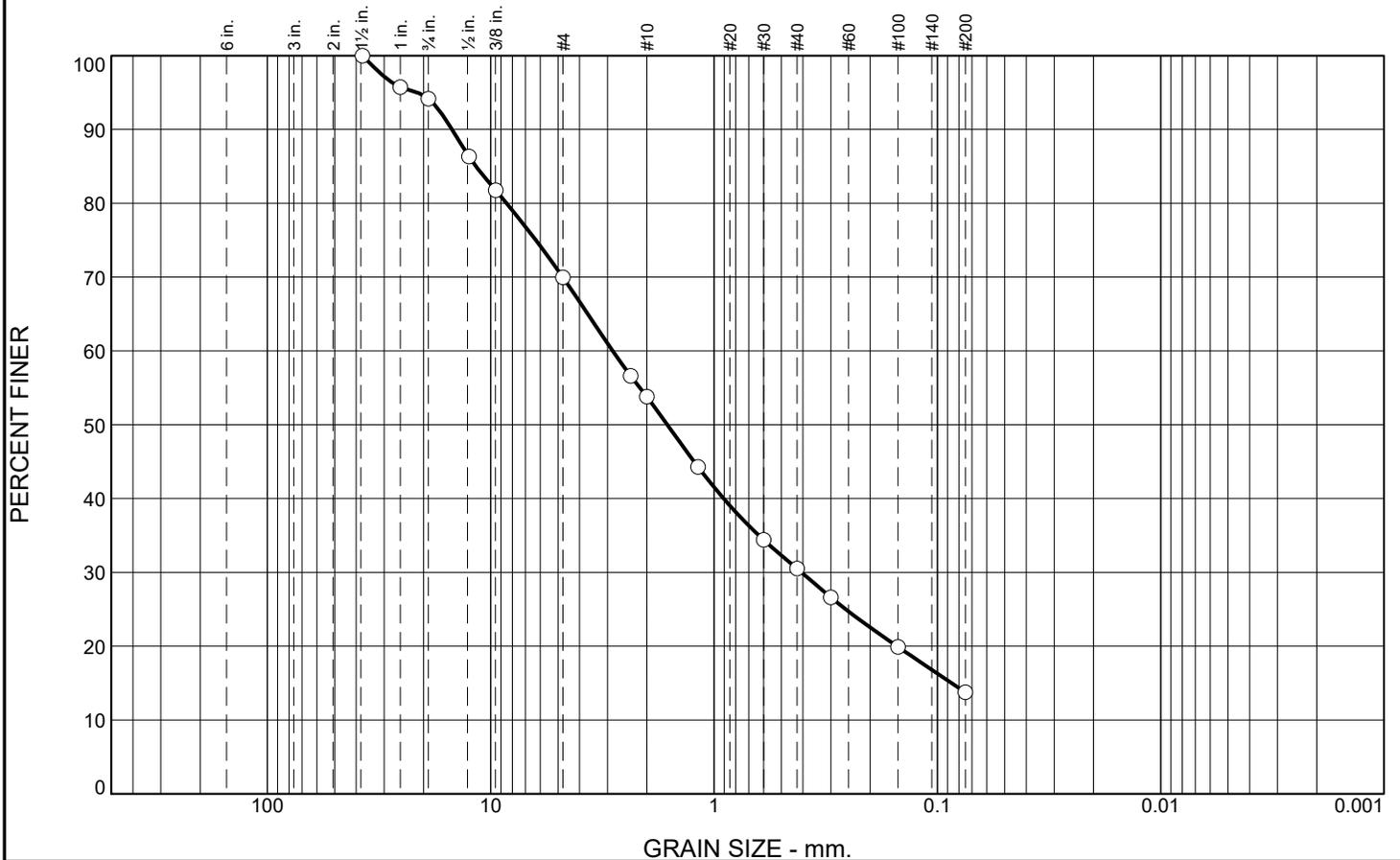
* (no specification provided)

Source of Sample: MM-321-05 **Depth:** 16 to 17 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111u
----------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	30	56	14	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	96		
3/4"	94		
1/2"	86		
3/8"	82		
#4	70		
#8	57		
#10	54		
#16	44		
#30	34		
#40	31		
#50	27		
#100	20		
#200	14		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 14.8979 D₈₅= 11.6326 D₆₀= 2.8416
D₅₀= 1.6183 D₃₀= 0.4060 D₁₅= 0.0865
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

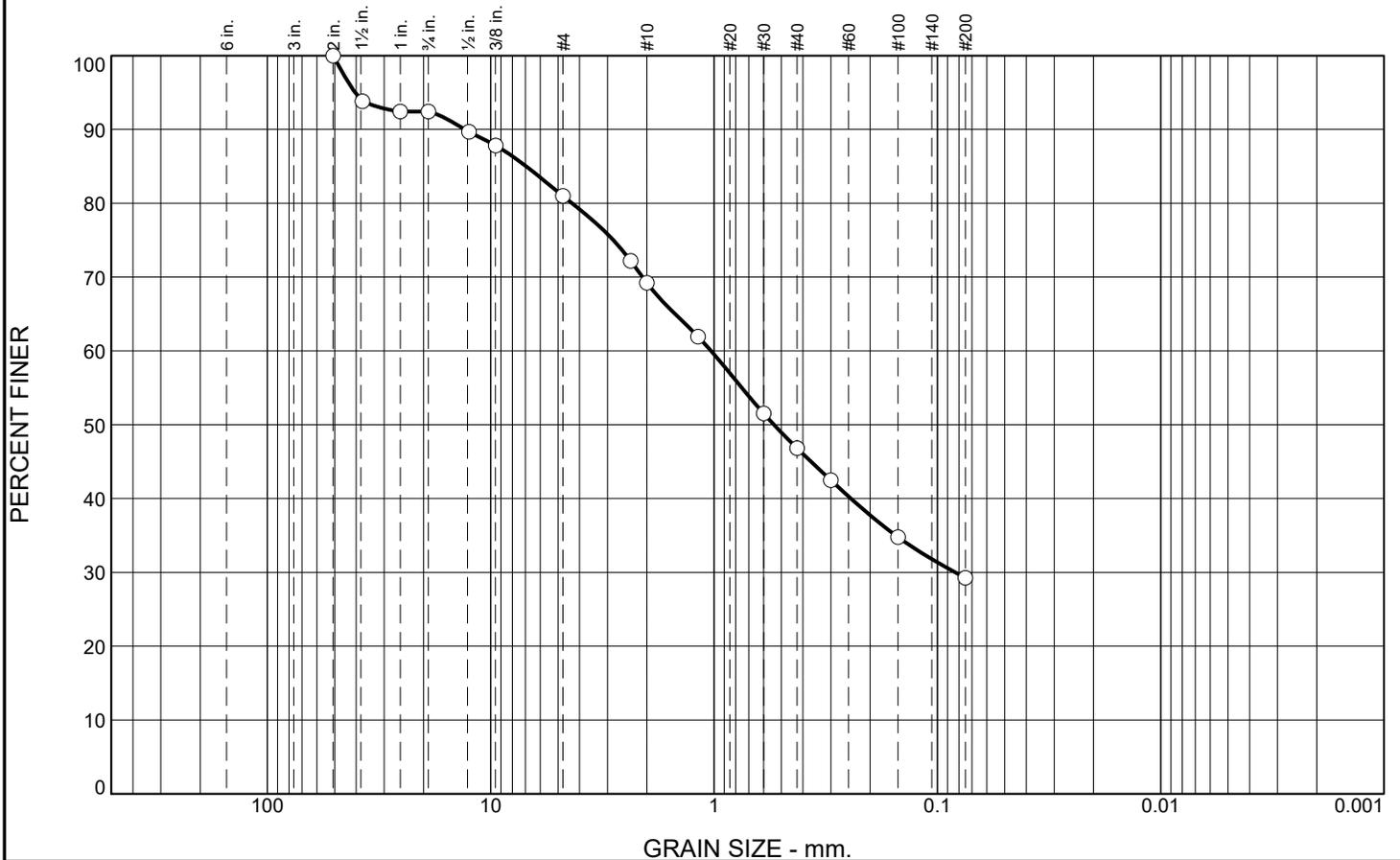
* (no specification provided)

Source of Sample: SS-331-02 **Depth:** 1 to 4 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111v
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	19	52	29	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	94		
1"	92		
3/4"	92		
1/2"	90		
3/8"	88		
#4	81		
#8	72		
#10	69		
#16	62		
#30	52		
#40	47		
#50	42		
#100	35		
#200	29		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 13.0388 D₈₅= 6.9351 D₆₀= 1.0316
D₅₀= 0.5394 D₃₀= 0.0832 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

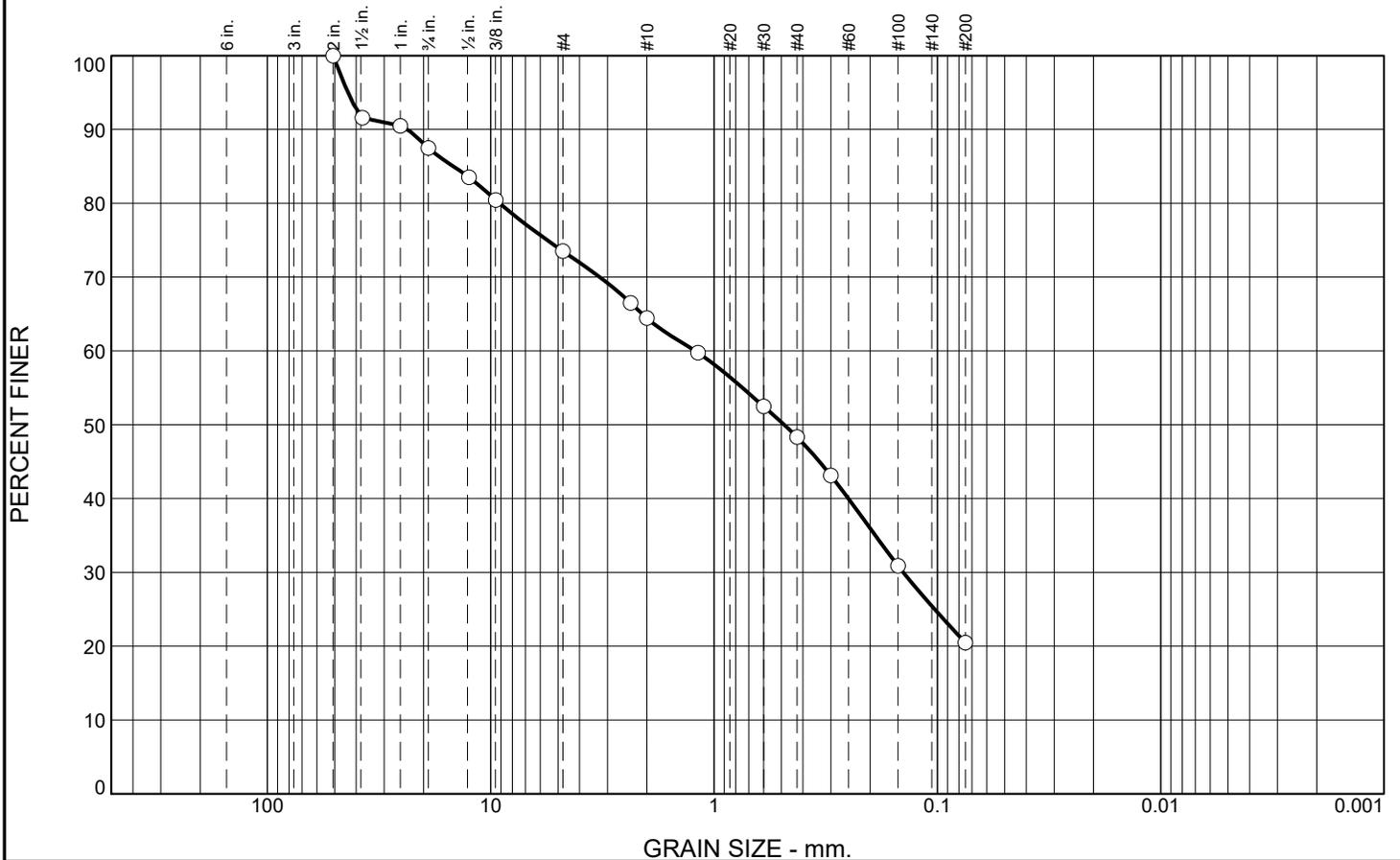
* (no specification provided)

Source of Sample: SS-331-09 **Depth:** 5 to 10 ft. **Date:** 3/18/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111w
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	26	54	20	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	92		
1"	90		
3/4"	87		
1/2"	84		
3/8"	80		
#4	74		
#8	66		
#10	64		
#16	60		
#30	52		
#40	48		
#50	43		
#100	31		
#200	20		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 23.5926 D₈₅= 14.6985 D₆₀= 1.2141
D₅₀= 0.4853 D₃₀= 0.1422 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

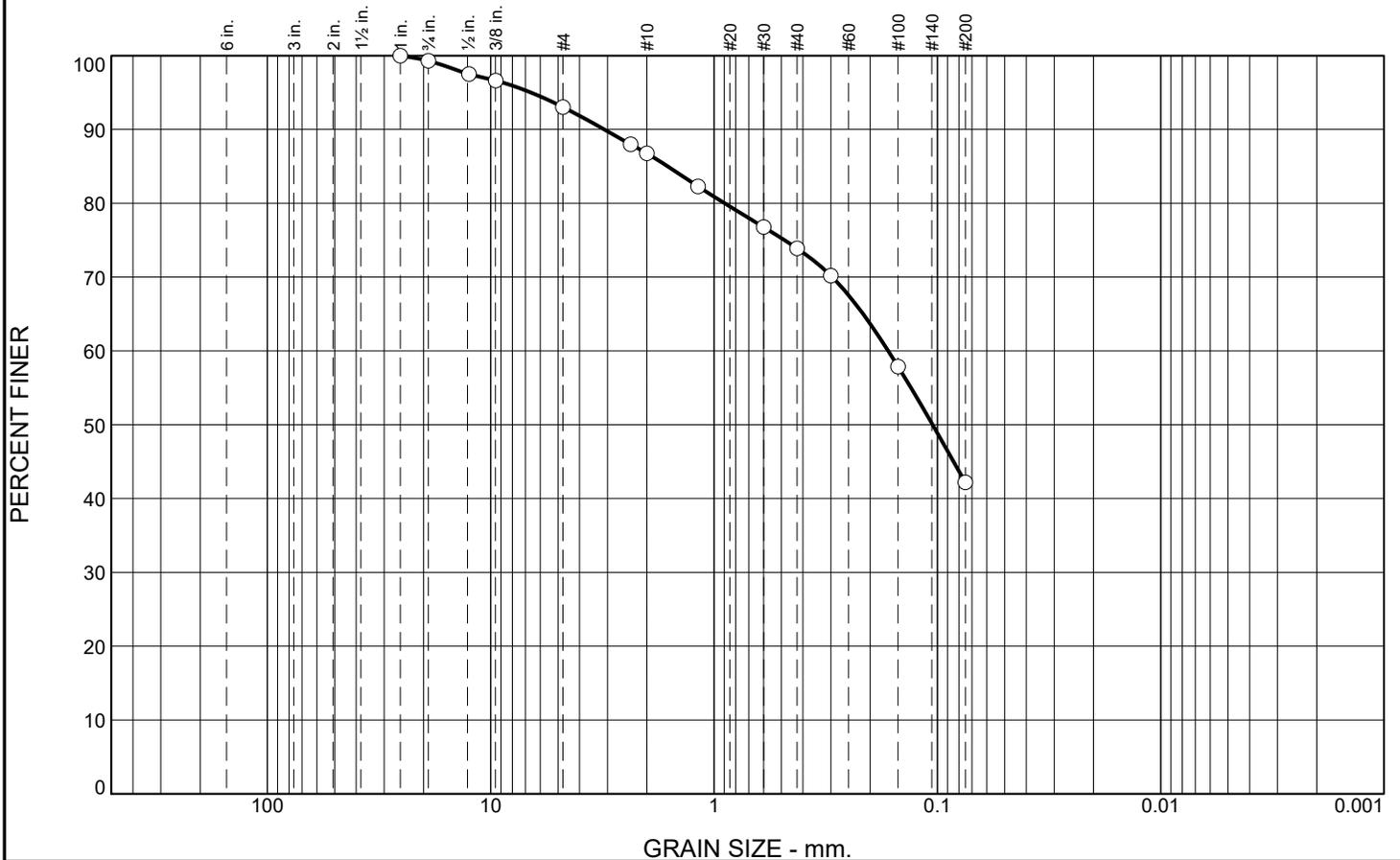
* (no specification provided)

Source of Sample: SS-332-03 **Depth:** 5 to 7 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111x
----------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	7	51	42	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100		
3/4"	99		
1/2"	98		
3/8"	97		
#4	93		
#8	88		
#10	87		
#16	82		
#30	77		
#40	74		
#50	70		
#100	58		
#200	42		

Material Description

Silty SAND

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 3.1018 D₈₅= 1.6126 D₆₀= 0.1661
D₅₀= 0.1051 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

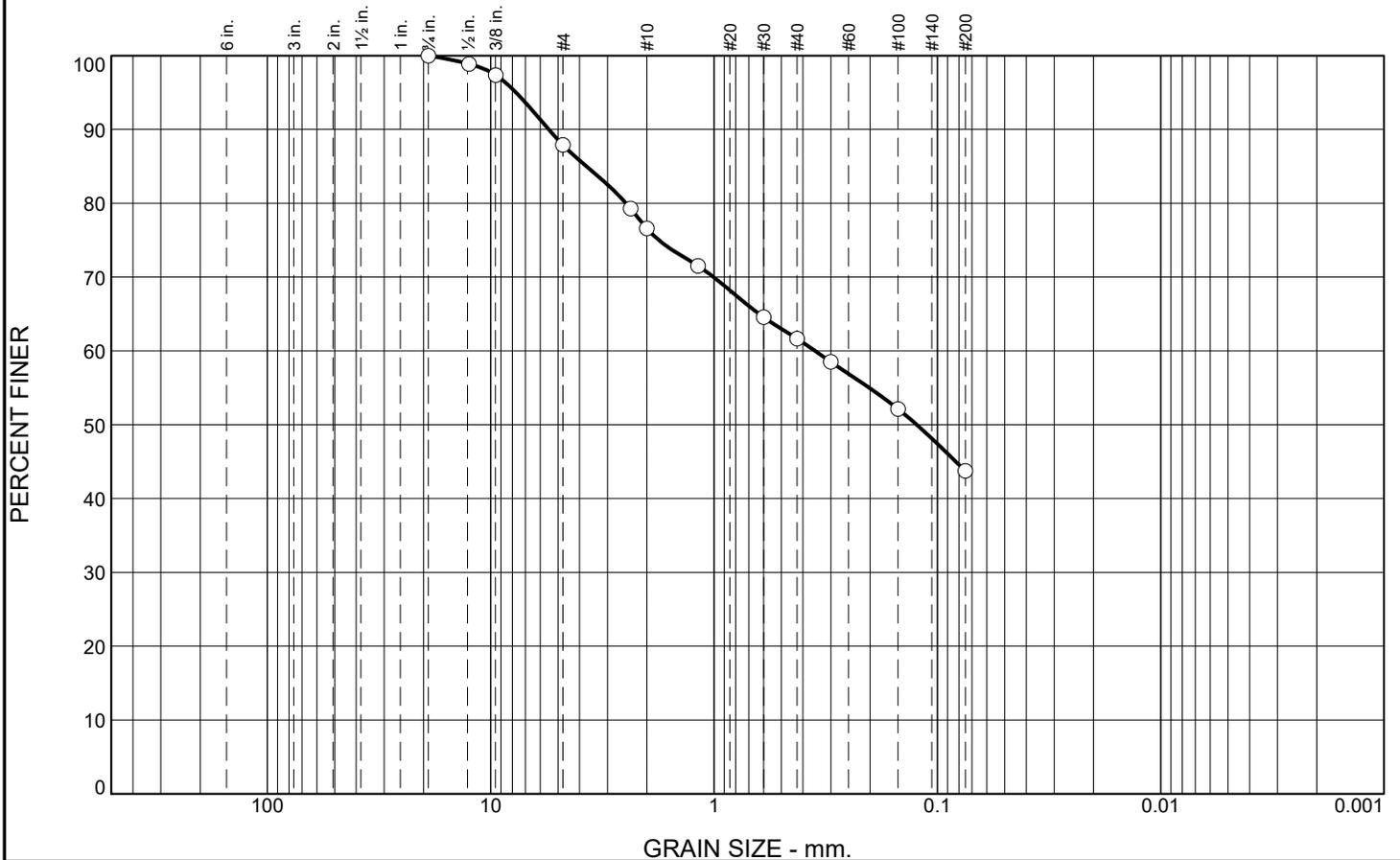
* (no specification provided)

Source of Sample: SS-332-07 **Depth:** 15 to 20 ft. **Date:** 3/18/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111y
----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	12	44	44	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100		
1/2"	99		
3/8"	97		
#4	88		
#8	79		
#10	77		
#16	72		
#30	65		
#40	62		
#50	59		
#100	52		
#200	44		

Material Description

Silty SAND

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 5.4984 D₈₅= 3.7300 D₆₀= 0.3530
D₅₀= 0.1238 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

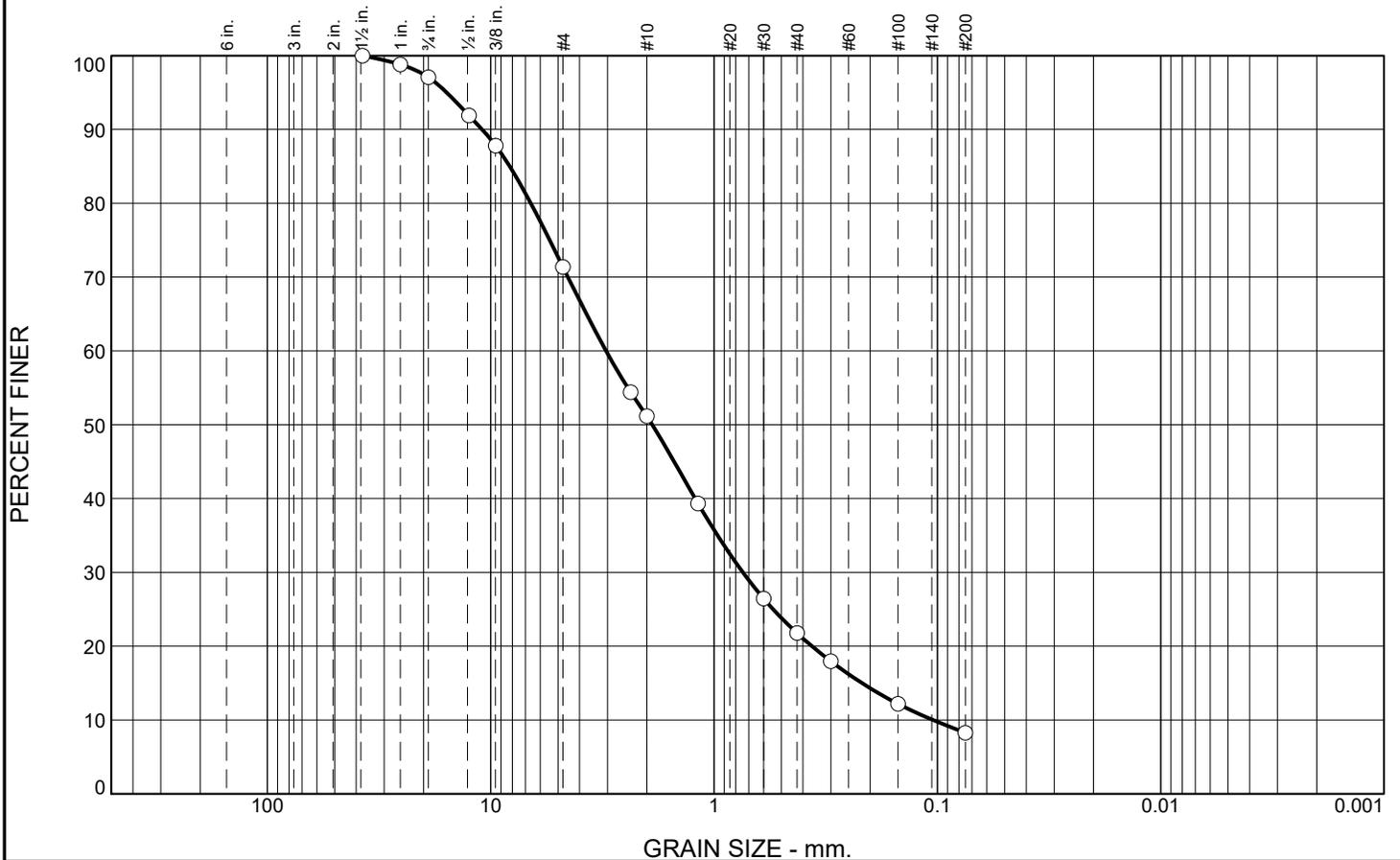
* (no specification provided)

Source of Sample: SS-332-09 **Depth:** 6 to 8 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111z
----------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	29	63	8	8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	99		
3/4"	97		
1/2"	92		
3/8"	88		
#4	71		
#8	54		
#10	51		
#16	39		
#30	26		
#40	22		
#50	18		
#100	12		
#200	8		

Material Description

Well graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 10.9267 D₈₅= 8.2164 D₆₀= 3.0451
D₅₀= 1.8898 D₃₀= 0.7433 D₁₅= 0.2176
D₁₀= 0.1046 C_u= 29.11 C_c= 1.73

Classification

USCS= SW-SM AASHTO= A-1-b

Remarks

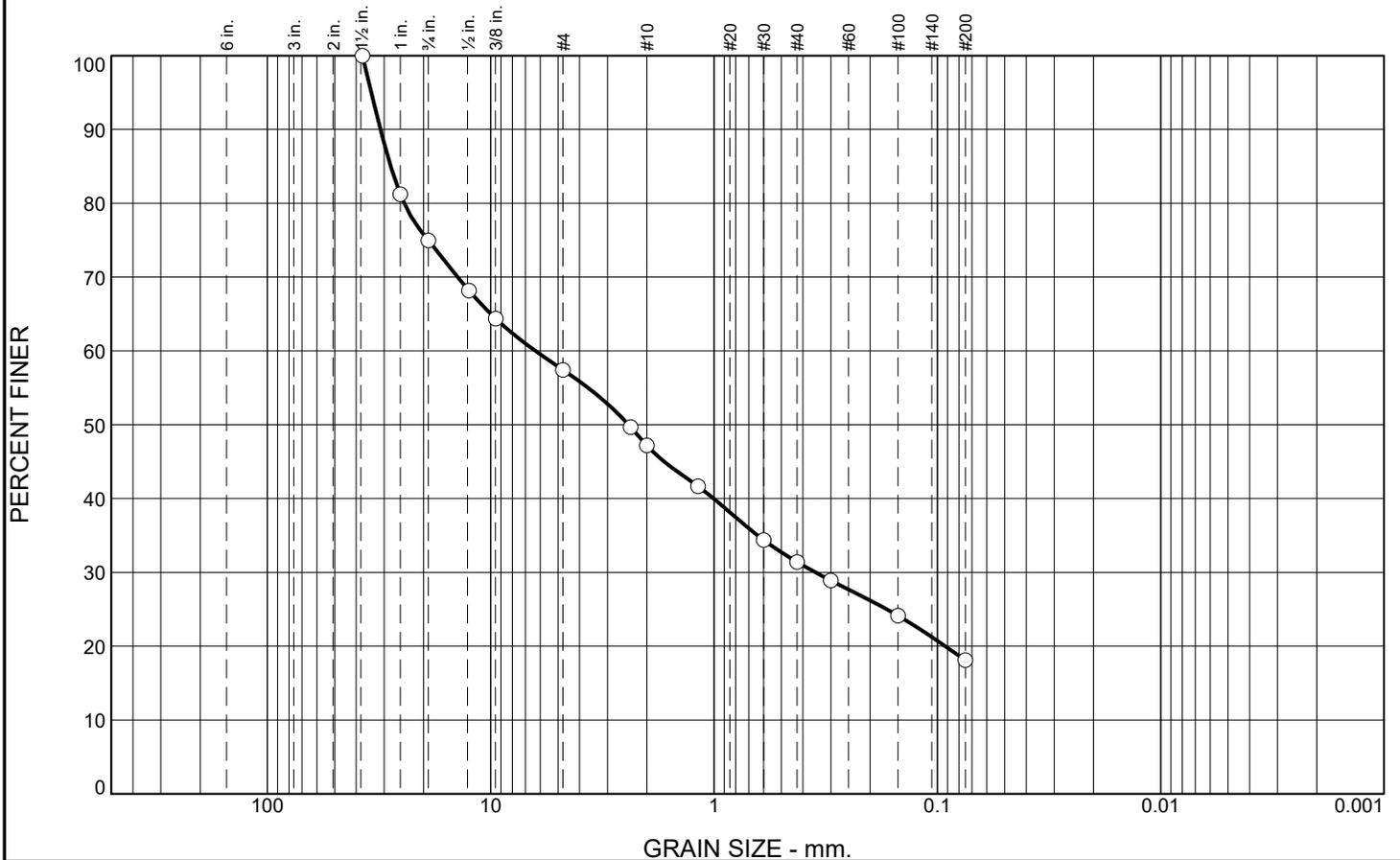
* (no specification provided)

Source of Sample: SS-333-01 **Depth:** 15 to 17.5 ft. **Date:** 3/18/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111aa
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	43	39	18	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	81		
3/4"	75		
1/2"	68		
3/8"	64		
#4	57		
#8	50		
#10	47		
#16	42		
#30	34		
#40	31		
#50	29		
#100	24		
#200	18		

Material Description

Silty GRAVEL with sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 31.1803 D₈₅= 28.0445 D₆₀= 6.3052
D₅₀= 2.4135 D₃₀= 0.3515 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= GM AASHTO= A-1-b

Remarks

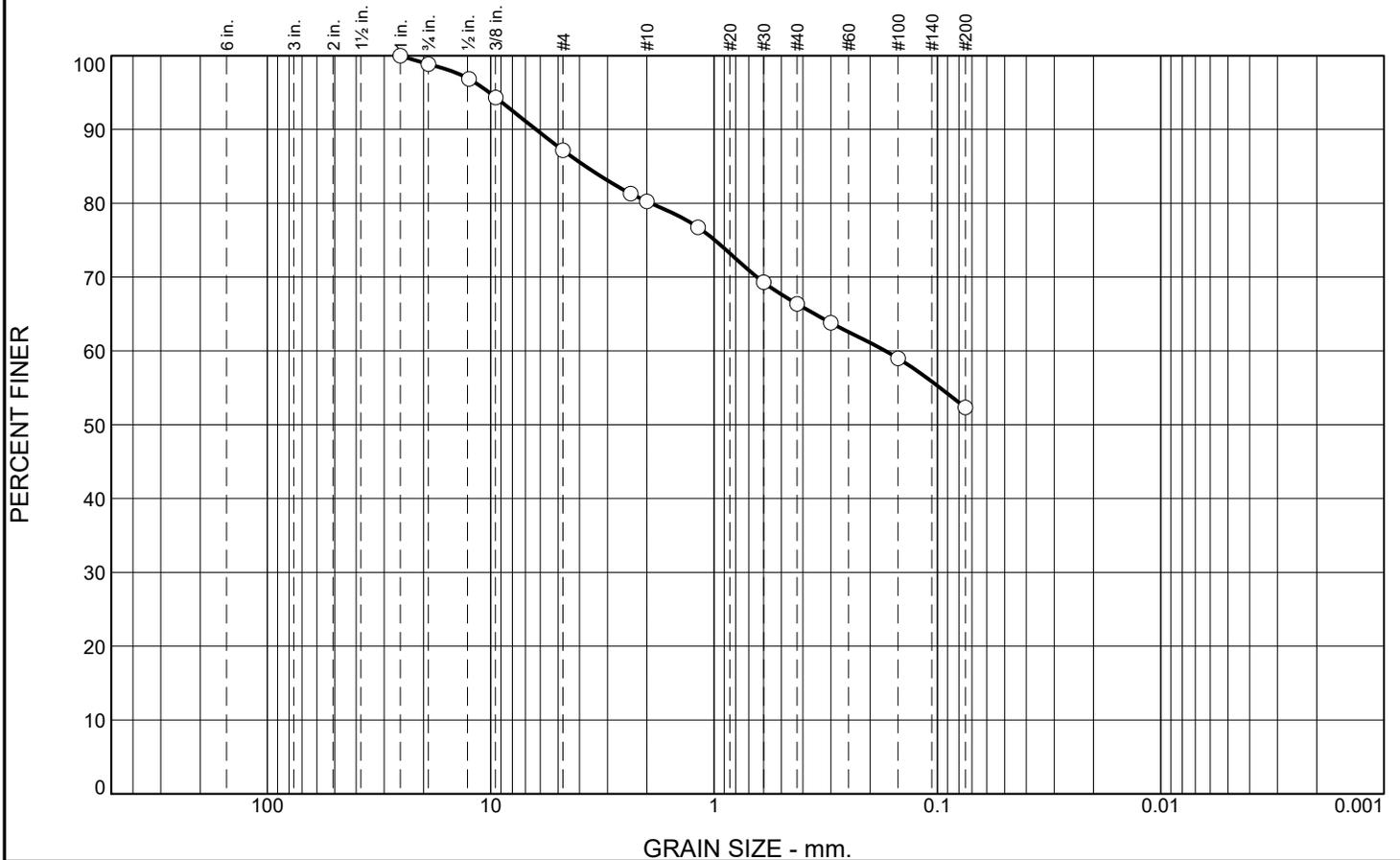
* (no specification provided)

Source of Sample: SS-333-07 **Depth:** 2 to 4 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ab
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	13	35	52	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100		
3/4"	99		
1/2"	97		
3/8"	94		
#4	87		
#8	81		
#10	80		
#16	77		
#30	69		
#40	66		
#50	64		
#100	59		
#200	52		

Material Description

Sandy lean CLAY

Atterberg Limits

PL= 12 LL= 46 PI= 34

Coefficients

D₉₀= 6.2736 D₈₅= 3.7594 D₆₀= 0.1710
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-7-6(13)

Remarks

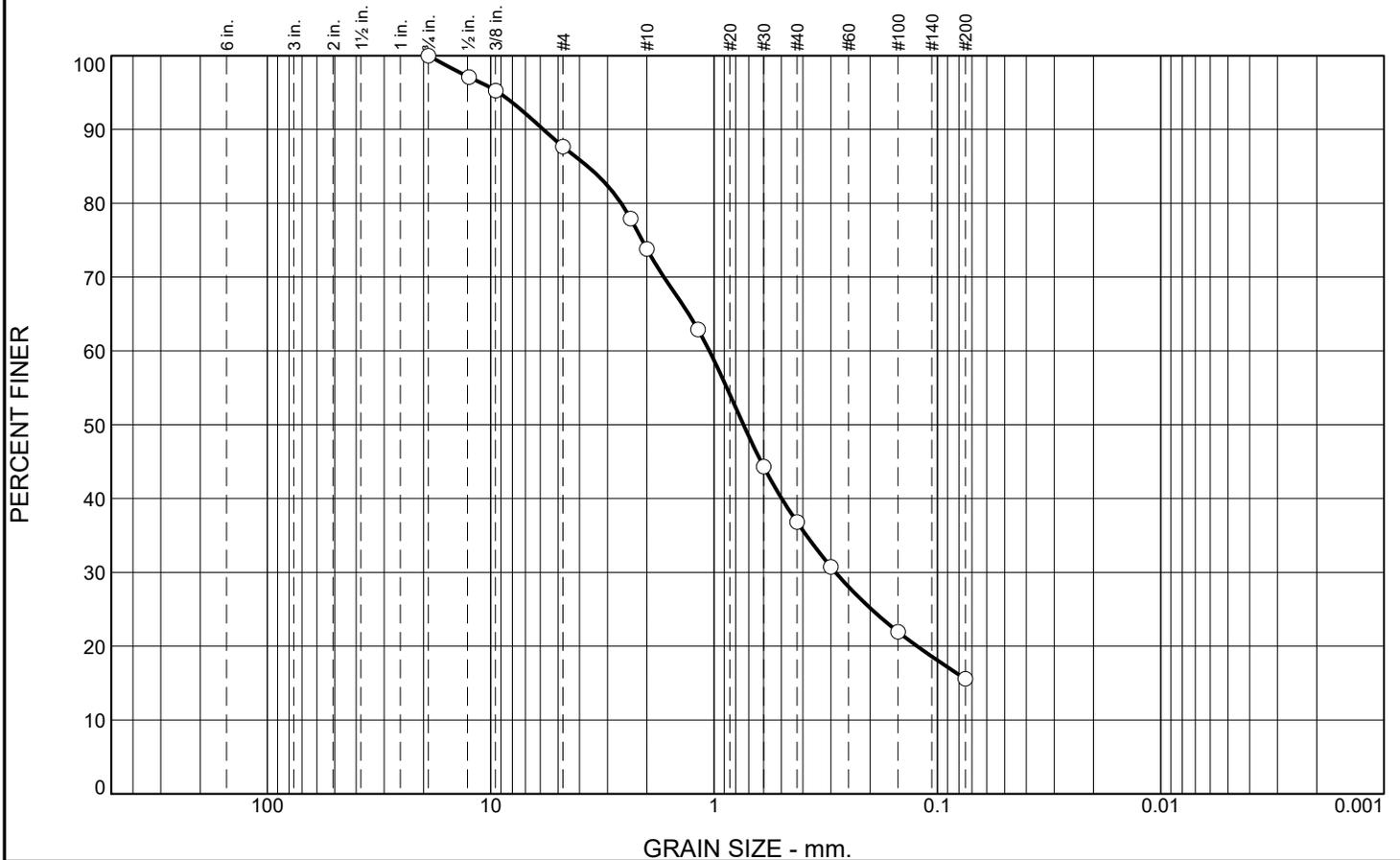
* (no specification provided)

Source of Sample: SS-333-09 **Depth:** 10 to 15 ft. **Date:** 3/18/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ac
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	12	72	16	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100		
1/2"	97		
3/8"	95		
#4	88		
#8	78		
#10	74		
#16	63		
#30	44		
#40	37		
#50	31		
#100	22		
#200	16		

Material Description

Silty SAND

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 5.8152 D₈₅= 3.6817 D₆₀= 1.0497
 D₅₀= 0.7383 D₃₀= 0.2857 D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

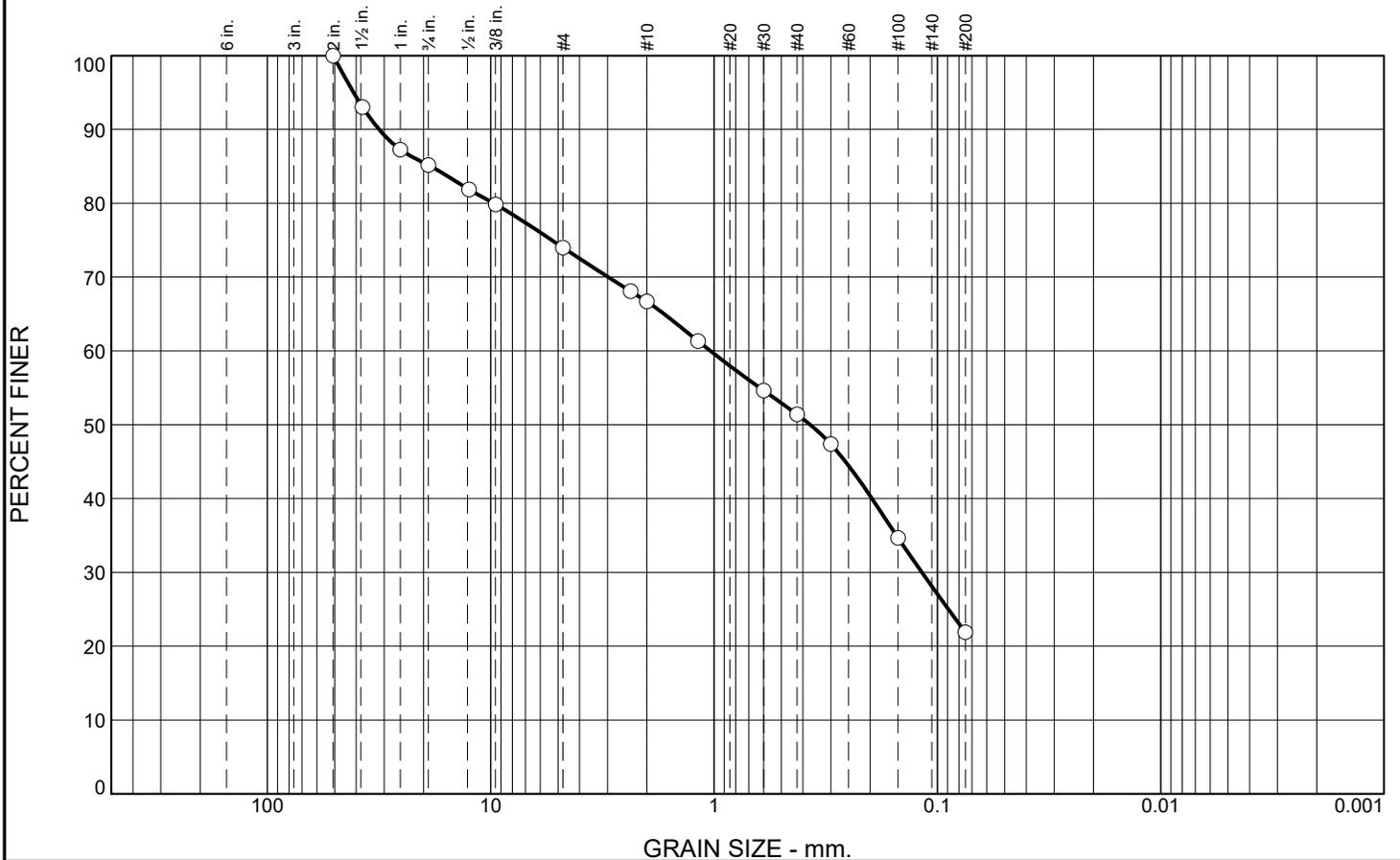
* (no specification provided)

Source of Sample: SS-333-11 **Depth:** 1 to 2 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ad
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	26	52	22	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	93		
1"	87		
3/4"	85		
1/2"	82		
3/8"	80		
#4	74		
#8	68		
#10	67		
#16	61		
#30	55		
#40	51		
#50	47		
#100	35		
#200	22		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 31.6320 D₈₅= 18.5367 D₆₀= 1.0387
D₅₀= 0.3710 D₃₀= 0.1174 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

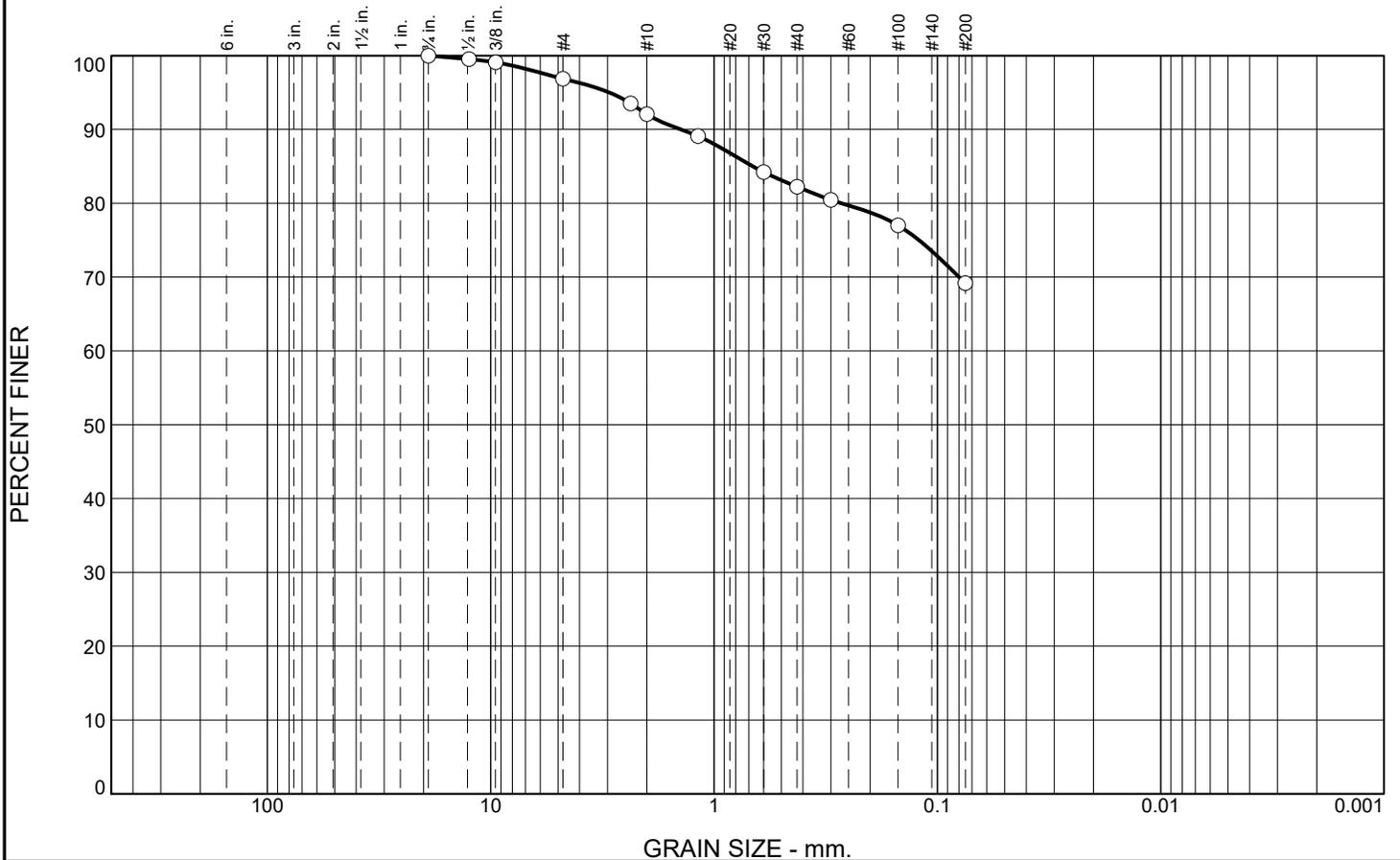
* (no specification provided)

Source of Sample: SS-333-17 **Depth:** 7.5 to 10 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354
	Figure 111ac

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	3	28	69	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100		
1/2"	100		
3/8"	99		
#4	97		
#8	94		
#10	92		
#16	89		
#30	84		
#40	82		
#50	80		
#100	77		
#200	69		

Material Description

Sandy fat CLAY

Atterberg Limits

PL= 23 LL= 54 PI= 31

Coefficients

D₉₀= 1.4075 D₈₅= 0.6703 D₆₀=
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CH AASHTO= A-7-6(21)

Remarks

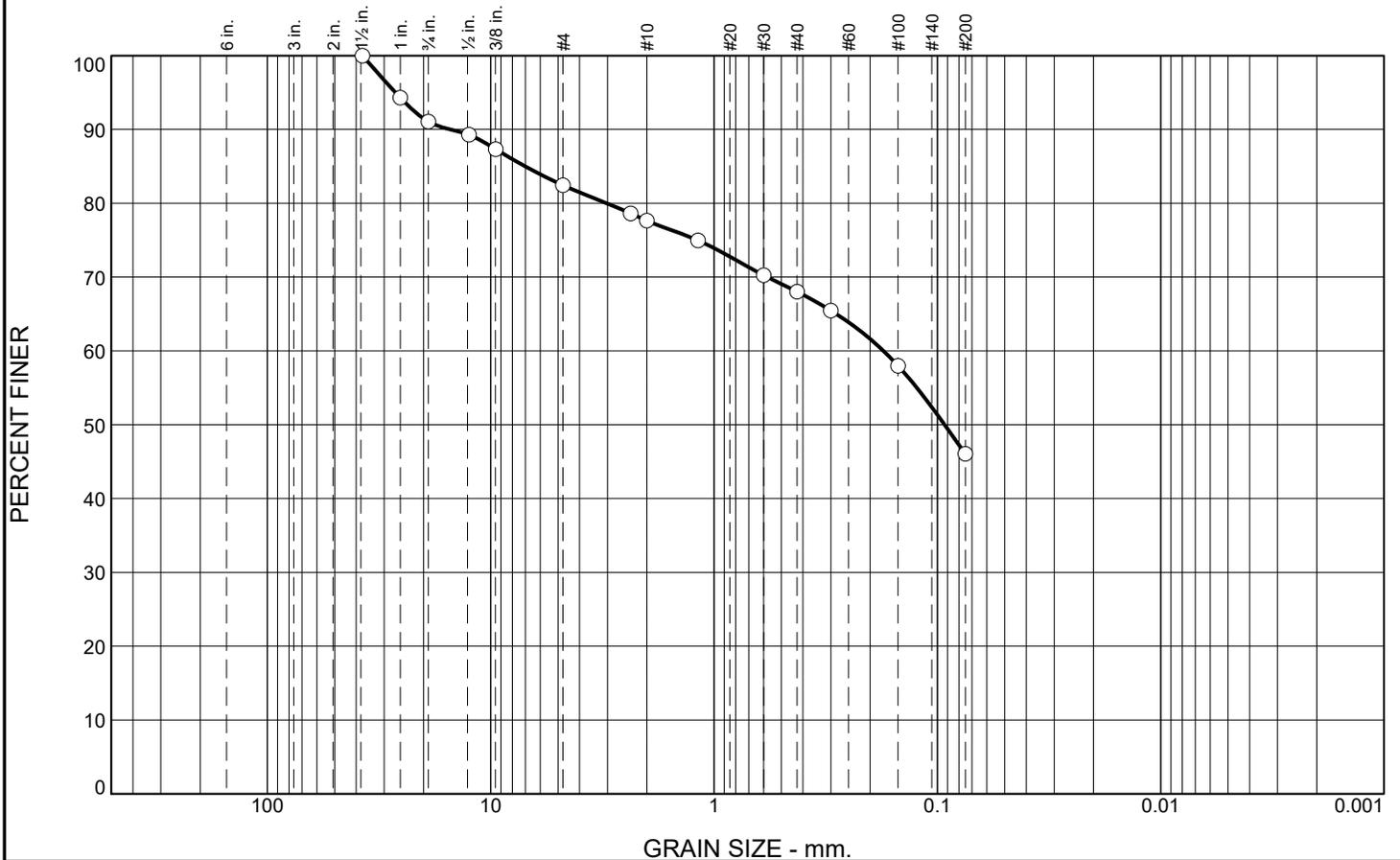
* (no specification provided)

Source of Sample: SS-333-18 **Depth:** 2.5 to 5 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111af
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	18	36	46	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	94		
3/4"	91		
1/2"	89		
3/8"	87		
#4	82		
#8	79		
#10	78		
#16	75		
#30	70		
#40	68		
#50	65		
#100	58		
#200	46		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 15.1924 D₈₅= 7.0070 D₆₀= 0.1744
 D₅₀= 0.0928 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

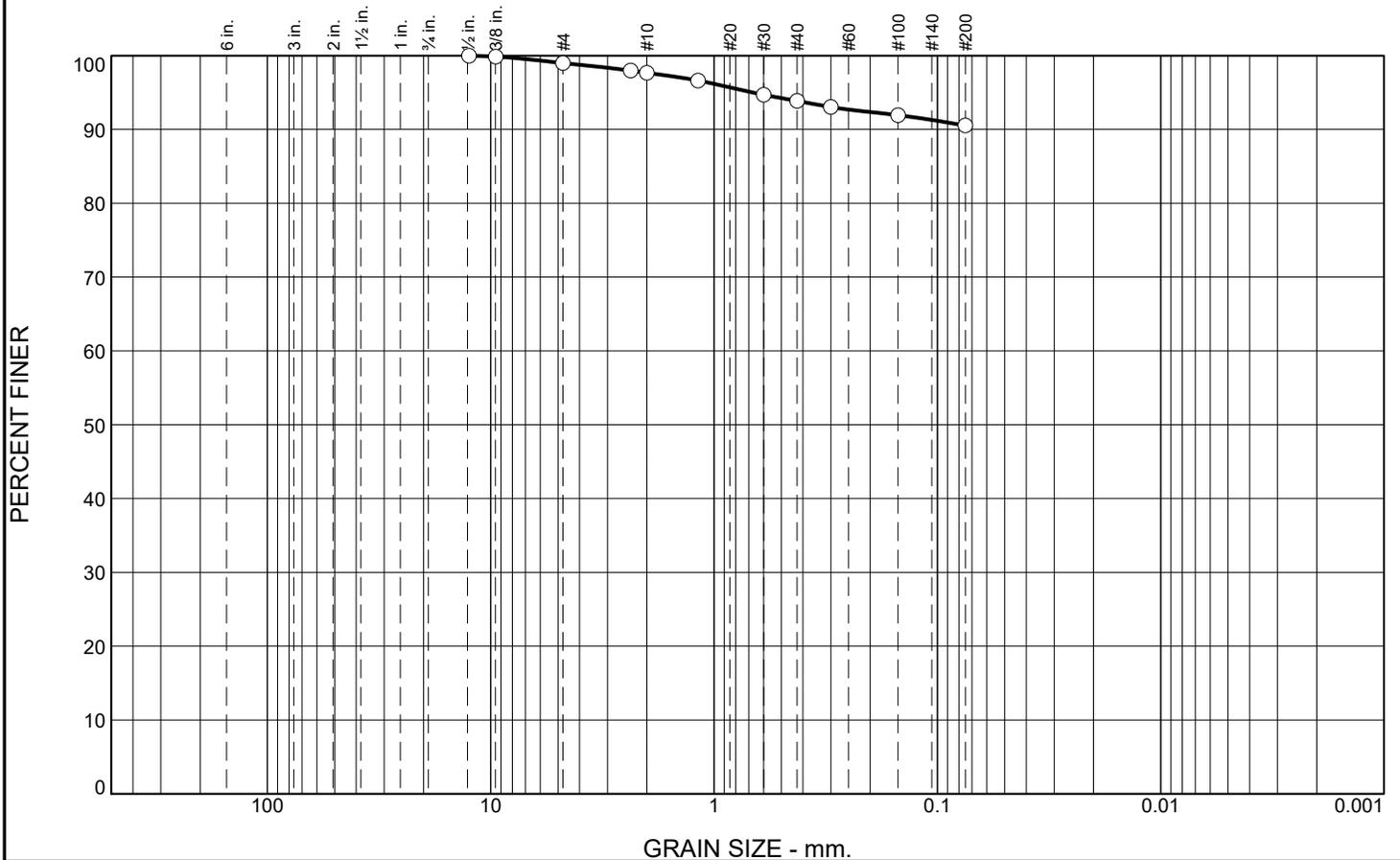
* (no specification provided)

Source of Sample: SS-334-07 **Depth:** 1 to 2 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ag
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	1	8	91	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2"	100		
3/8"	100		
#4	99		
#8	98		
#10	98		
#16	97		
#30	95		
#40	94		
#50	93		
#100	92		
#200	91		

Material Description

Fat CLAY

Atterberg Limits

PL= 17 LL= 61 PI= 44

Coefficients

D₉₀= D₈₅= D₆₀=
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CH AASHTO= A-7-6(43)

Remarks

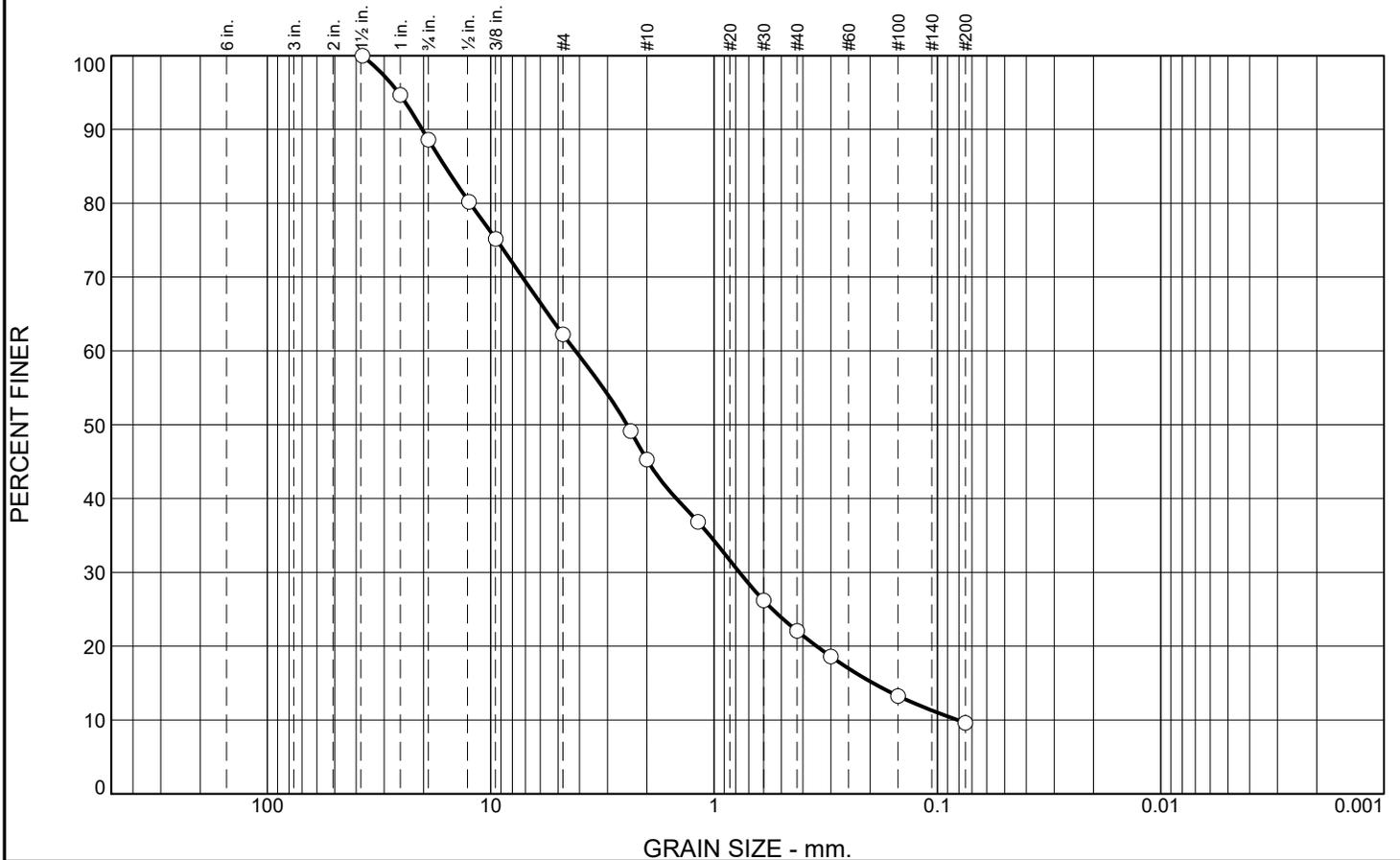
* (no specification provided)

Source of Sample: SS-334-10 Depth: 25 to 30 ft. Date: 3/18/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ah
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	38	52	10	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	95		
3/4"	89		
1/2"	80		
3/8"	75		
#4	62		
#8	49		
#10	45		
#16	37		
#30	26		
#40	22		
#50	19		
#100	13		
#200	10		

Material Description

Well graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 20.2589 D₈₅= 16.0101 D₆₀= 4.1753
D₅₀= 2.4514 D₃₀= 0.7698 D₁₅= 0.1945
D₁₀= 0.0814 C_u= 51.30 C_c= 1.74

Classification

USCS= SW-SM AASHTO= A-1-a

Remarks

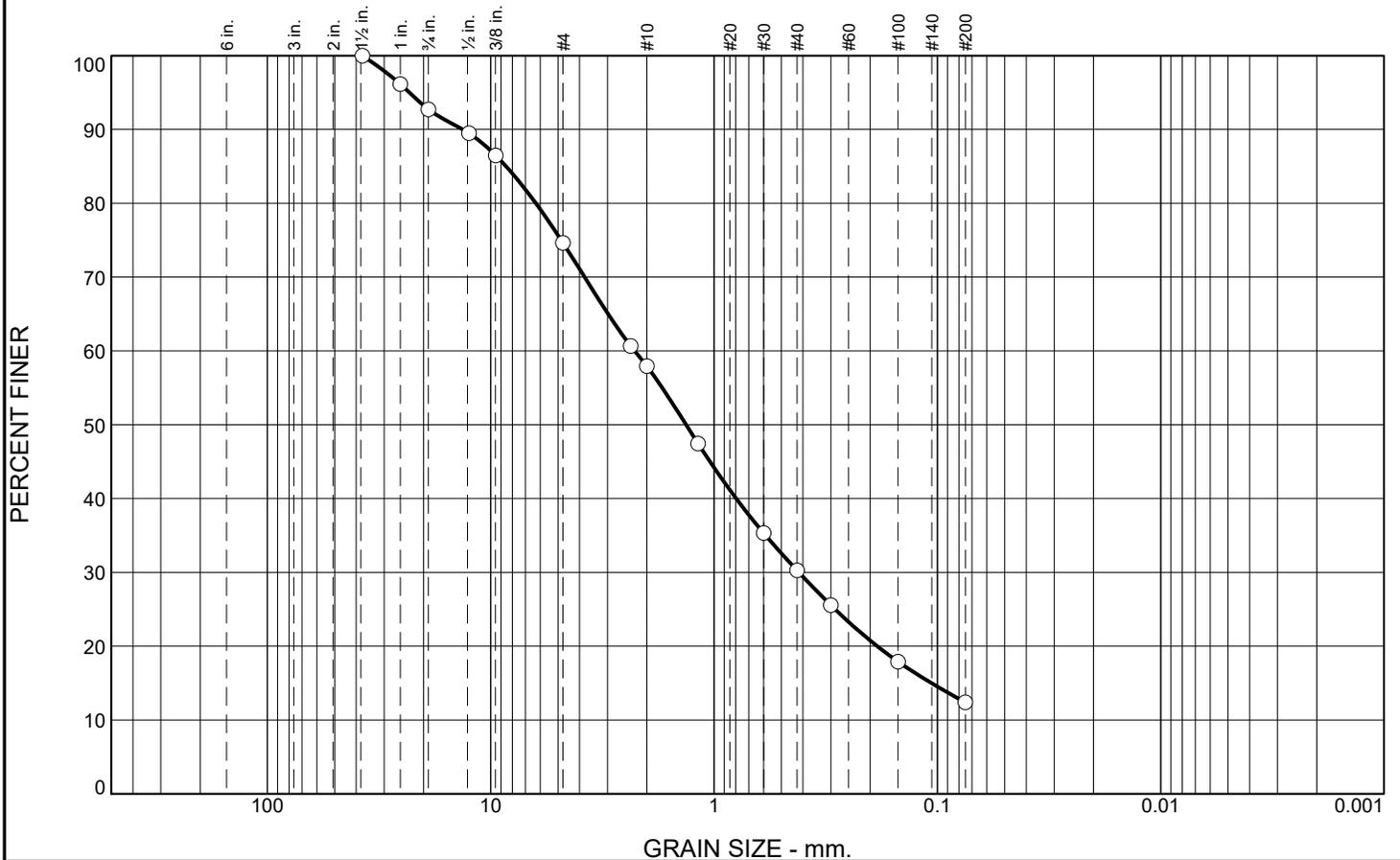
* (no specification provided)

Source of Sample: SS-334-15 **Depth:** 27 to 30 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ai
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	25	63	12	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	96		
3/4"	93		
1/2"	89		
3/8"	86		
#4	75		
#8	61		
#10	58		
#16	47		
#30	35		
#40	30		
#50	26		
#100	18		
#200	12		

Material Description

Poorly graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 13.3280 D₈₅= 8.5317 D₆₀= 2.2660
D₅₀= 1.3352 D₃₀= 0.4168 D₁₅= 0.1064
D₁₀= C_u= C_c=

Classification

USCS= SP-SM AASHTO= A-1-b

Remarks

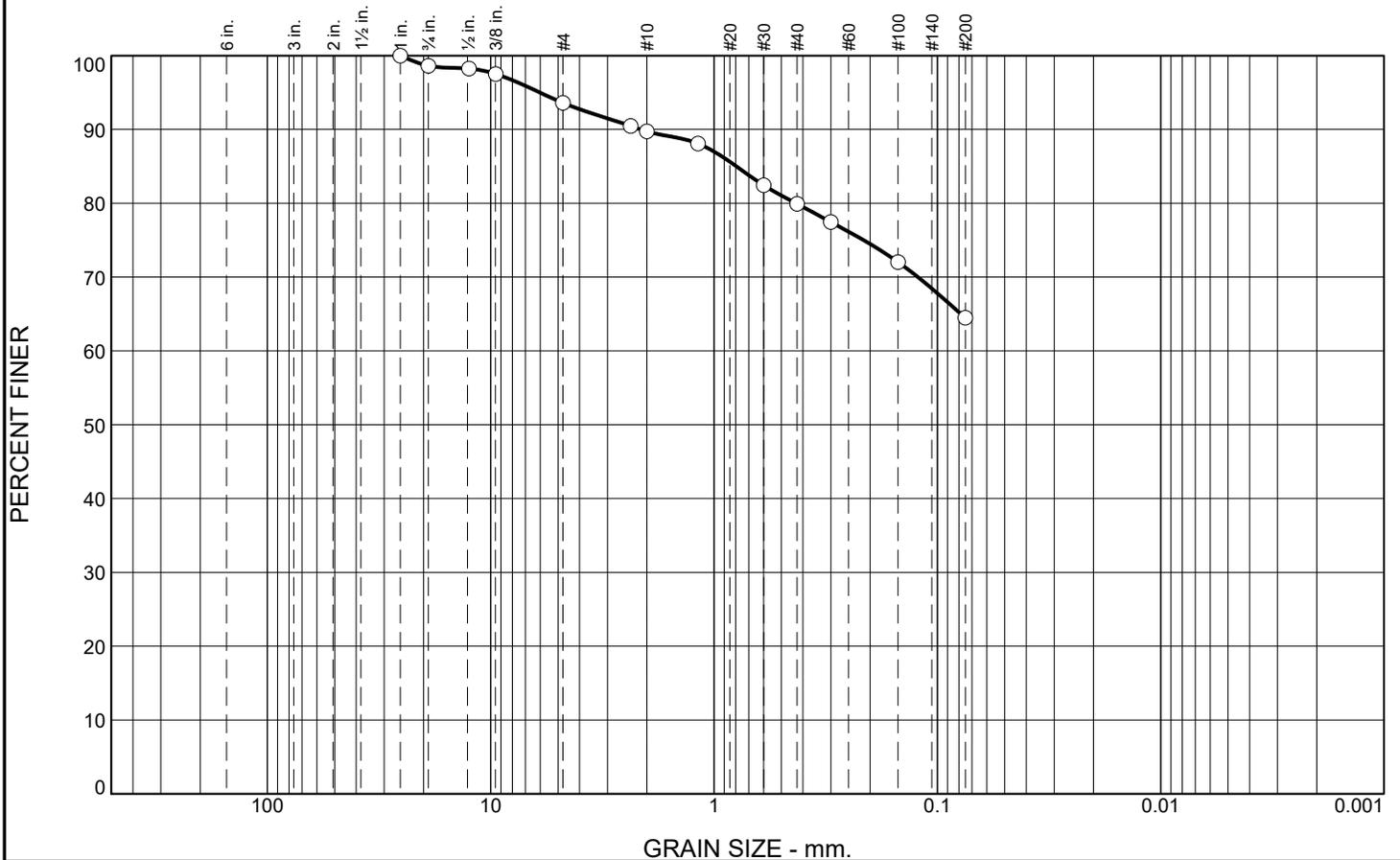
* (no specification provided)

Source of Sample: SS-334-20 **Depth:** 14 to 15 ft. **Date:** 3/18/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111aj
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	6	30	64	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100		
3/4"	99		
1/2"	98		
3/8"	98		
#4	94		
#8	90		
#10	90		
#16	88		
#30	82		
#40	80		
#50	77		
#100	72		
#200	64		

* (no specification provided)

Material Description

Sandy lean CLAY

Atterberg Limits

PL= 24 LL= 46 PI= 22

Coefficients

D₉₀= 2.1328 D₈₅= 0.7944 D₆₀=
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-7-6(13)

Remarks

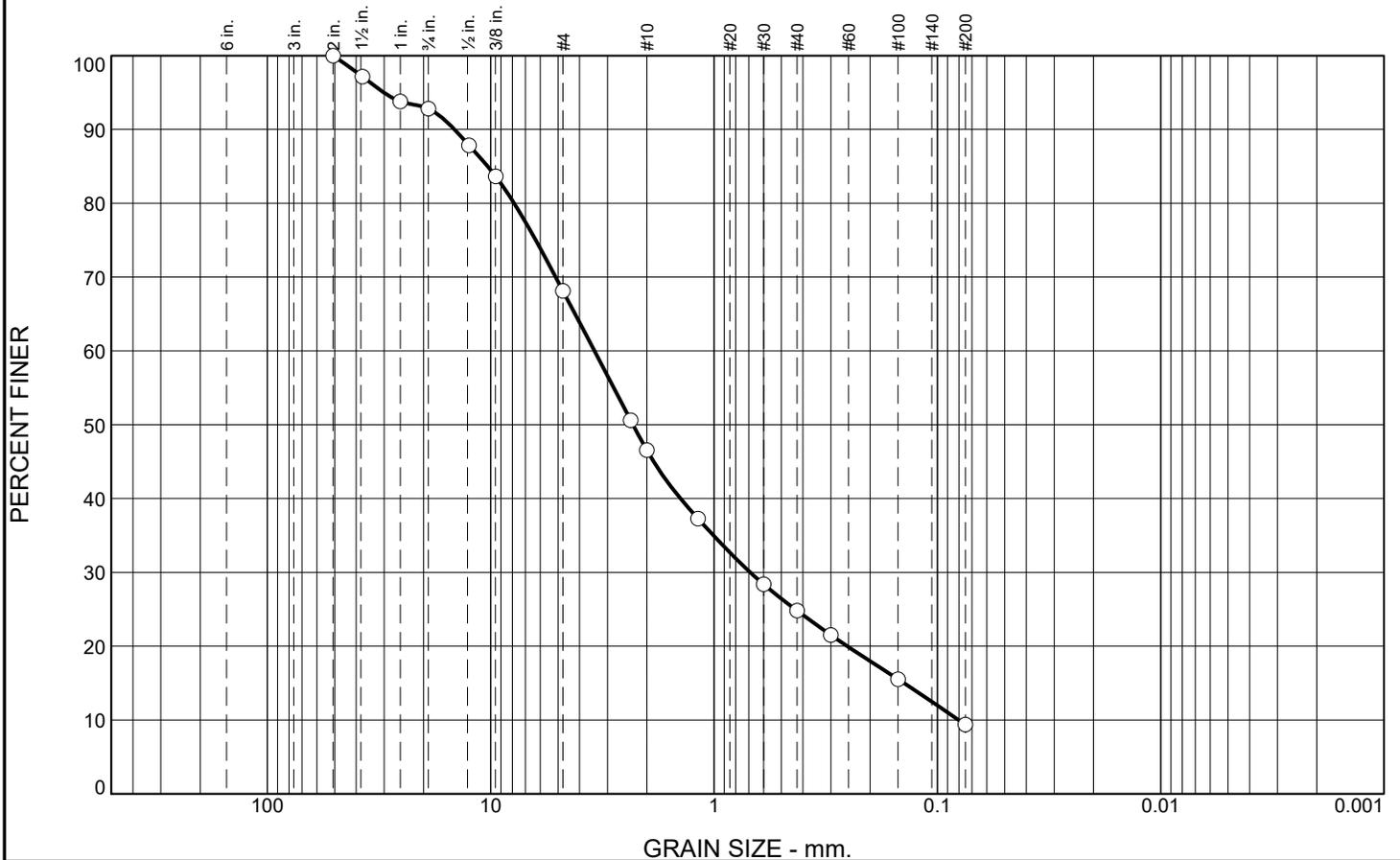
Source of Sample: TP-3 **Depth:** 3 to 4 ft.

Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ak
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	32	59	9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	97		
1"	94		
3/4"	93		
1/2"	88		
3/8"	84		
#4	68		
#8	51		
#10	47		
#16	37		
#30	28		
#40	25		
#50	22		
#100	16		
#200	9		

Material Description

Well graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 14.5251 D₈₅= 10.3172 D₆₀= 3.4306
D₅₀= 2.3039 D₃₀= 0.6886 D₁₅= 0.1412
D₁₀= 0.0803 C_u= 42.71 C_c= 1.72

Classification

USCS= SW-SM AASHTO= A-1-a

Remarks

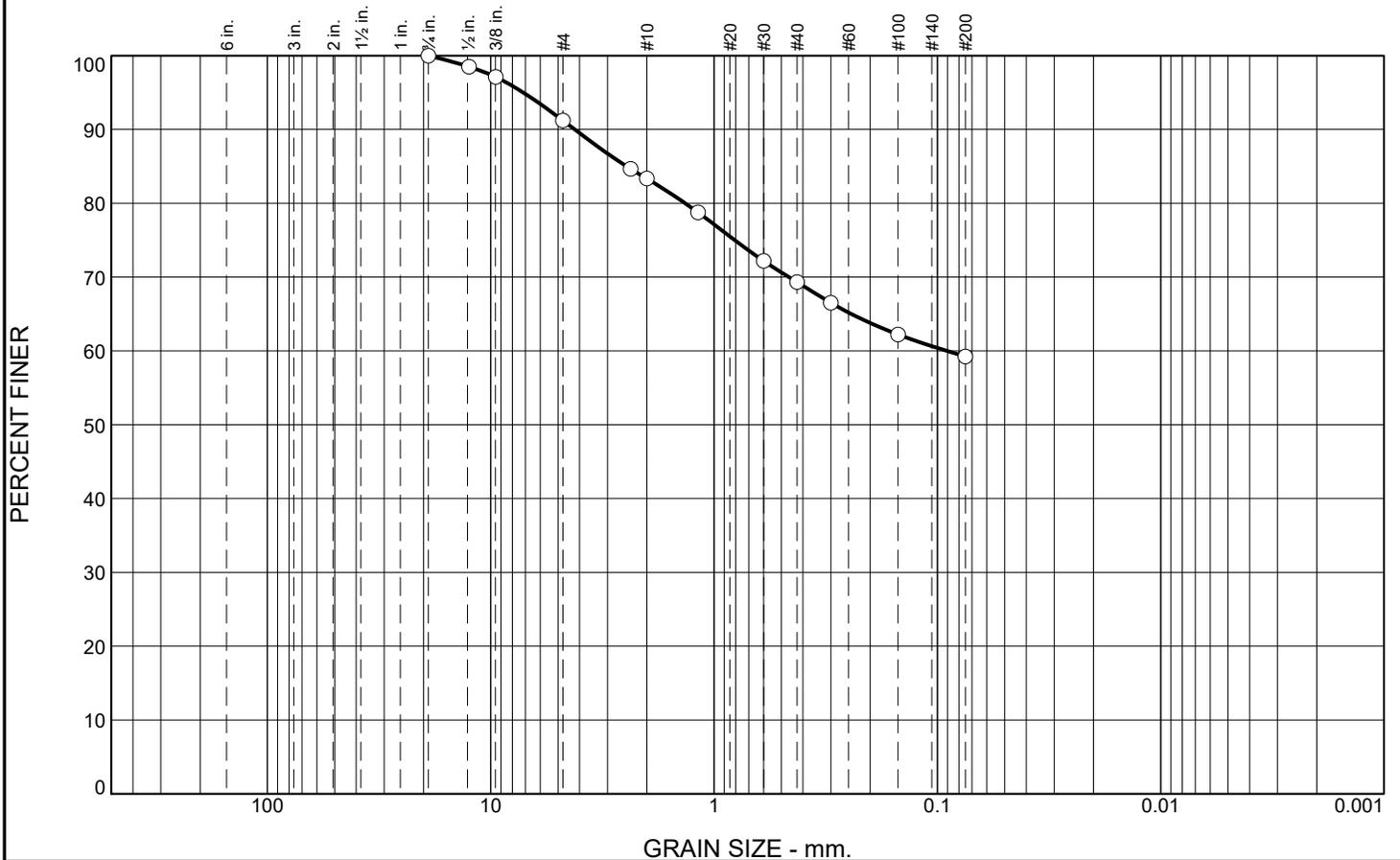
* (no specification provided)

Source of Sample: TP-4 **Depth:** 6 to 7 ft. **Date:** 3/23/22

<p>Nova Geotechnical and Inspection Services Las Vegas, Nevada</p>	<p>Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111a1</p>
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Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	9	32	59	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100		
1/2"	99		
3/8"	97		
#4	91		
#8	85		
#10	83		
#16	79		
#30	72		
#40	69		
#50	67		
#100	62		
#200	59		

Material Description

Sandy fat CLAY

Atterberg Limits

PL= 22 LL= 89 PI= 67

Coefficients

D₉₀= 4.2062 D₈₅= 2.4630 D₆₀= 0.0906
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CH AASHTO= A-7-6(36)

Remarks

* (no specification provided)

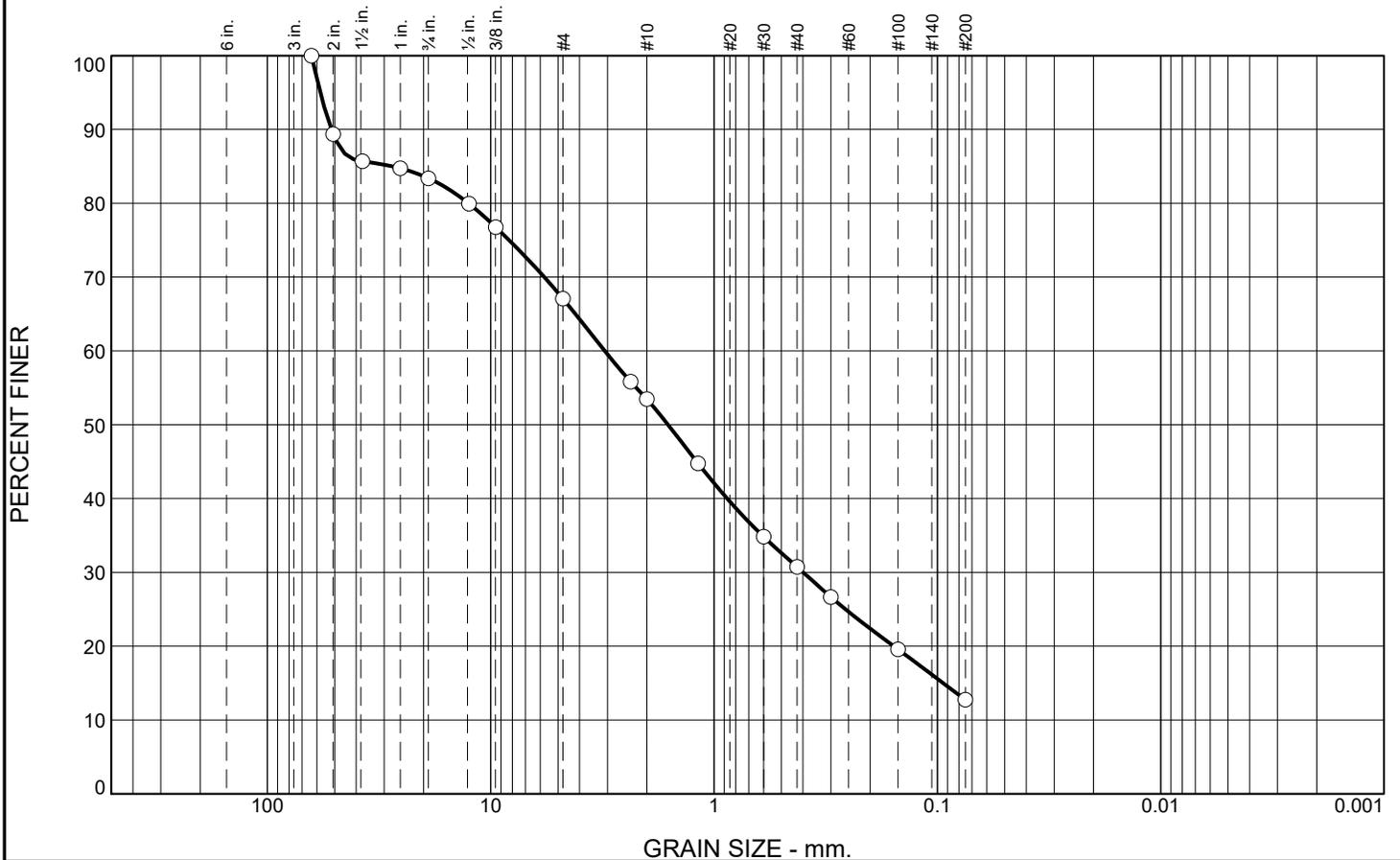
Source of Sample: TP-7 **Depth:** 5 to 6 ft.

Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111am
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	33	54	13	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 1/2"	100		
2"	89		
1 1/2"	86		
1"	85		
3/4"	83		
1/2"	80		
3/8"	77		
#4	67		
#8	56		
#10	53		
#16	45		
#30	35		
#40	31		
#50	27		
#100	20		
#200	13		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 51.7549 D₈₅= 27.6097 D₆₀= 3.0866
 D₅₀= 1.6067 D₃₀= 0.3989 D₁₅= 0.0943
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

* (no specification provided)

Source of Sample: TP-9 **Depth:** 9 to 10 ft.

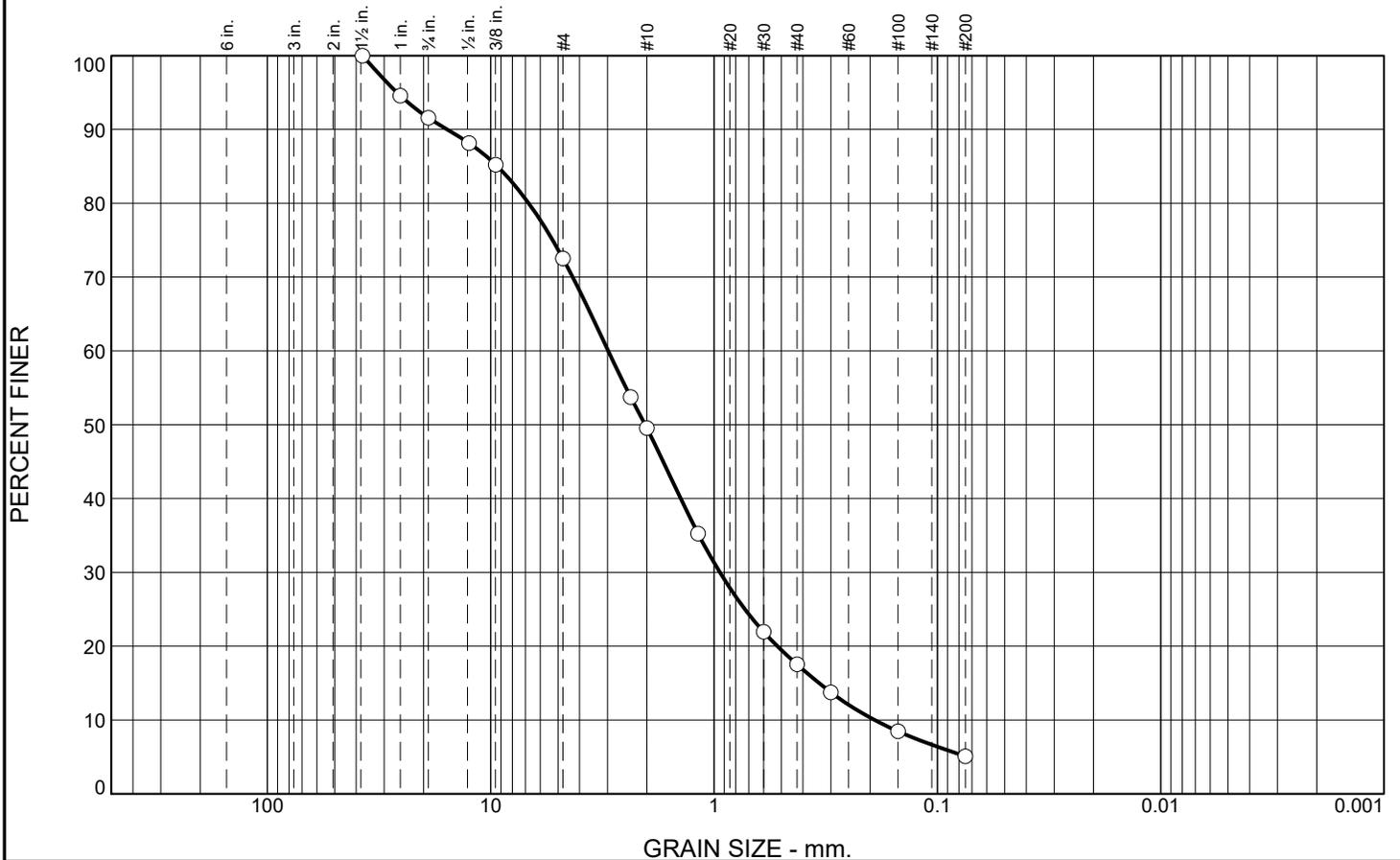
Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111an
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Tested By: DP

Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	27	68	5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	95		
3/4"	92		
1/2"	88		
3/8"	85		
#4	73		
#8	54		
#10	50		
#16	35		
#30	22		
#40	18		
#50	14		
#100	8		
#200	5		

Material Description

Well graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 15.6732 D₈₅= 9.3363 D₆₀= 2.9768
D₅₀= 2.0355 D₃₀= 0.9424 D₁₅= 0.3390
D₁₀= 0.1913 C_u= 15.56 C_c= 1.56

Classification

USCS= SW-SM AASHTO= A-1-a

Remarks

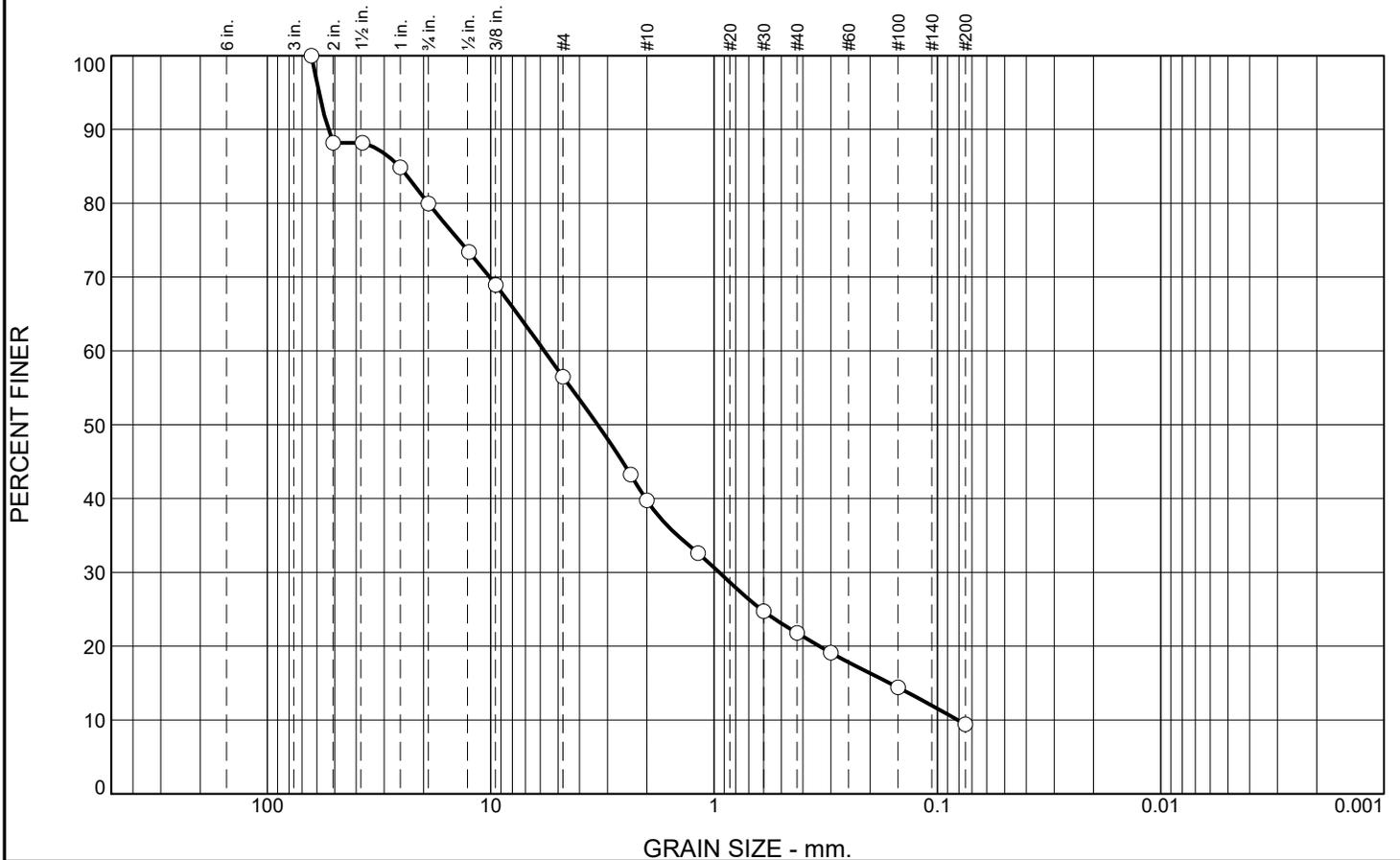
* (no specification provided)

Source of Sample: TP-10 Depth: 5 to 6 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ao
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	44	47	9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 1/2"	100		
2"	88		
1 1/2"	88		
1"	85		
3/4"	80		
1/2"	73		
3/8"	69		
#4	56		
#8	43		
#10	40		
#16	33		
#30	25		
#40	22		
#50	19		
#100	14		
#200	9		

* (no specification provided)

Material Description

Well graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 53.4128 D₈₅= 25.6433 D₆₀= 5.7586
D₅₀= 3.3209 D₃₀= 0.9491 D₁₅= 0.1638
D₁₀= 0.0811 C_u= 71.02 C_c= 1.93

Classification

USCS= SW-SM AASHTO= A-1-a

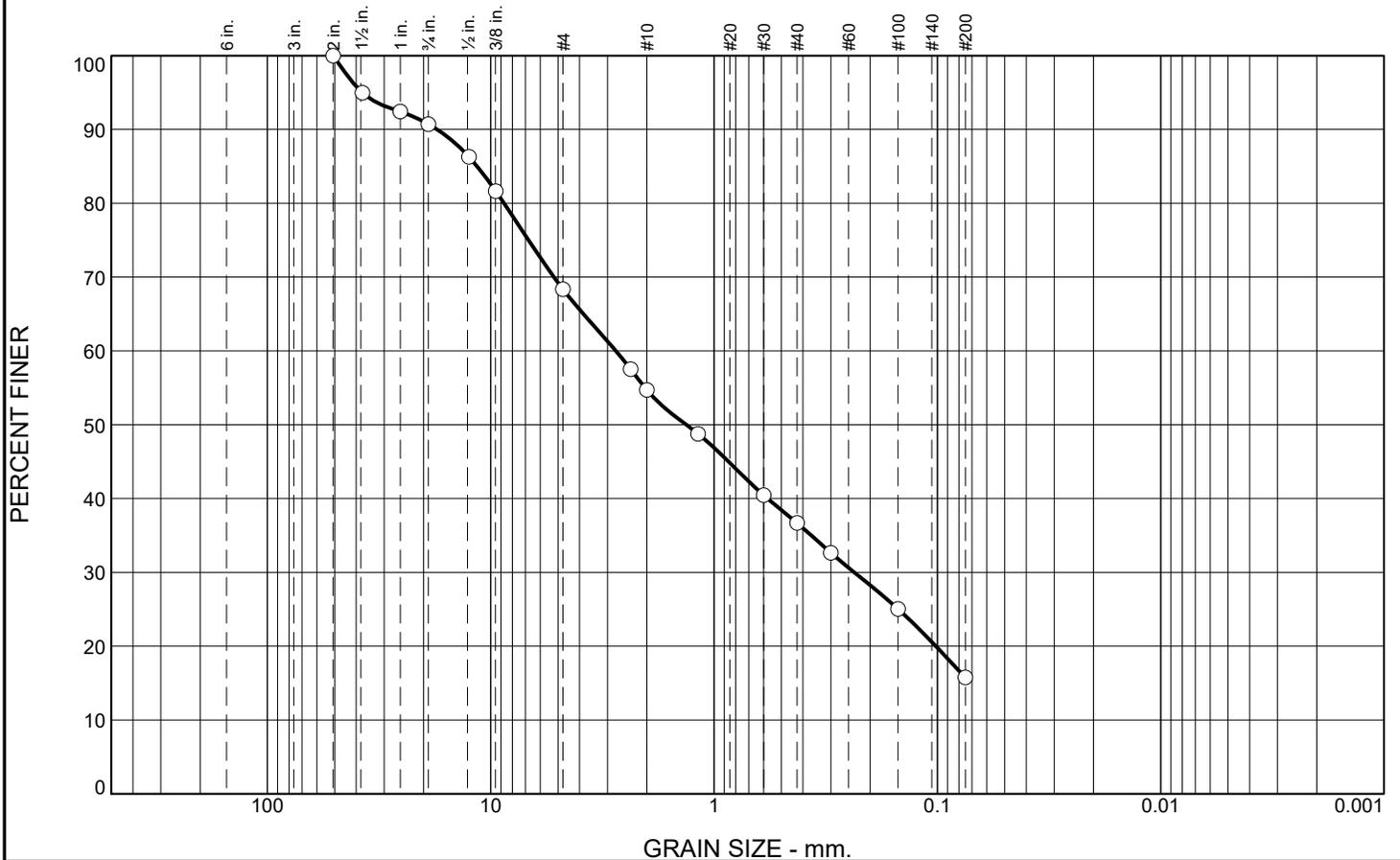
Remarks

Source of Sample: TP-12 Depth: 8 to 9 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ap
----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	32	52	16	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	95		
1"	92		
3/4"	91		
1/2"	86		
3/8"	82		
#4	68		
#8	58		
#10	55		
#16	49		
#30	40		
#40	37		
#50	33		
#100	25		
#200	16		

* (no specification provided)

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 17.3722 D₈₅= 11.5010 D₆₀= 2.7515
D₅₀= 1.3320 D₃₀= 0.2356 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

Source of Sample: TP-13 **Depth:** 7 to 8 ft.

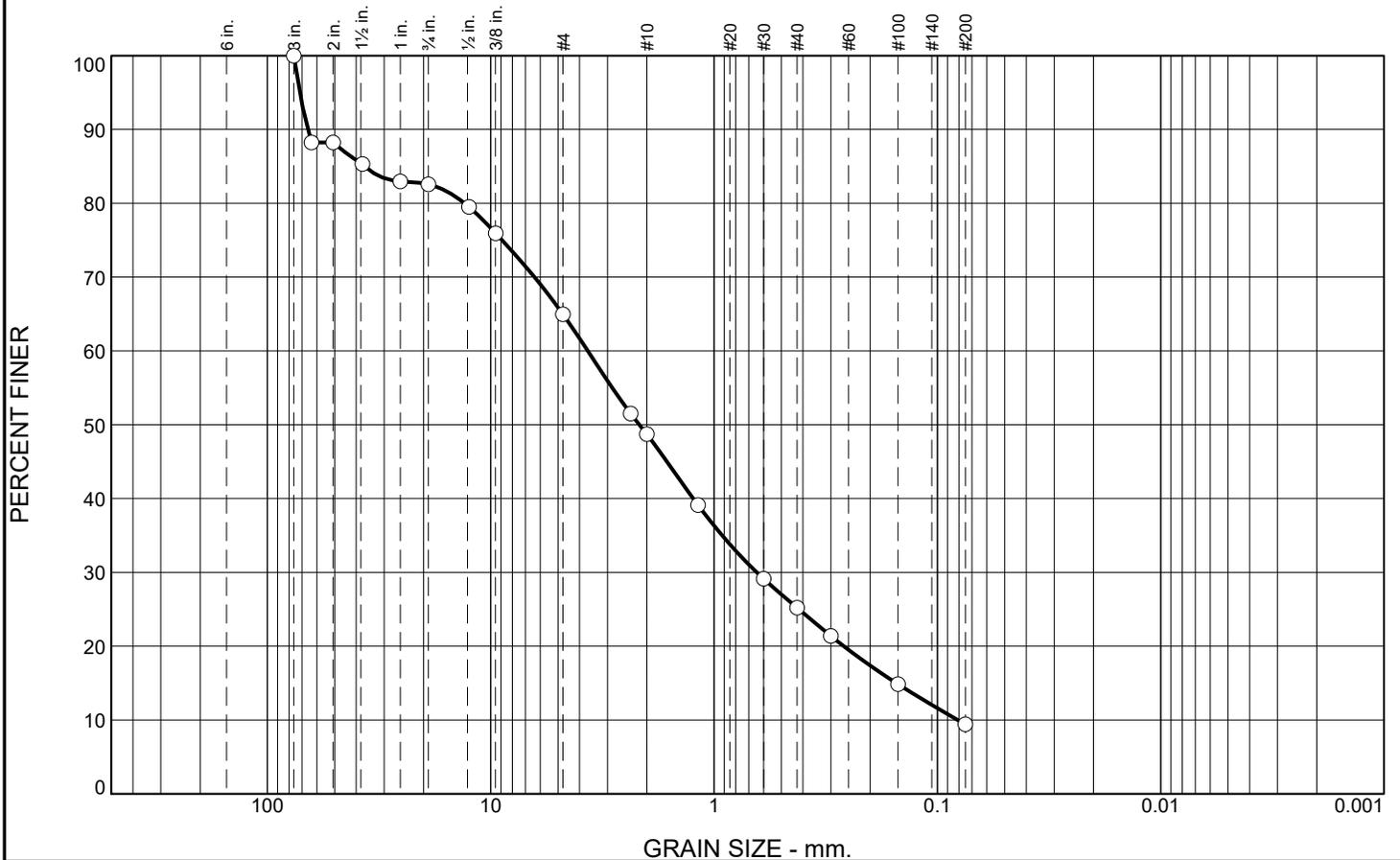
Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111aq
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP

Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	35	56	9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100		
2 1/2"	88		
2"	88		
1 1/2"	85		
1"	83		
3/4"	83		
1/2"	80		
3/8"	76		
#4	65		
#8	52		
#10	49		
#16	39		
#30	29		
#40	25		
#50	21		
#100	15		
#200	9		

Material Description

Well graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 66.1897 D₈₅= 36.5999 D₆₀= 3.6770
D₅₀= 2.1584 D₃₀= 0.6436 D₁₅= 0.1528
D₁₀= 0.0810 C_u= 45.38 C_c= 1.39

Classification

USCS= SW-SM AASHTO= A-1-a

Remarks

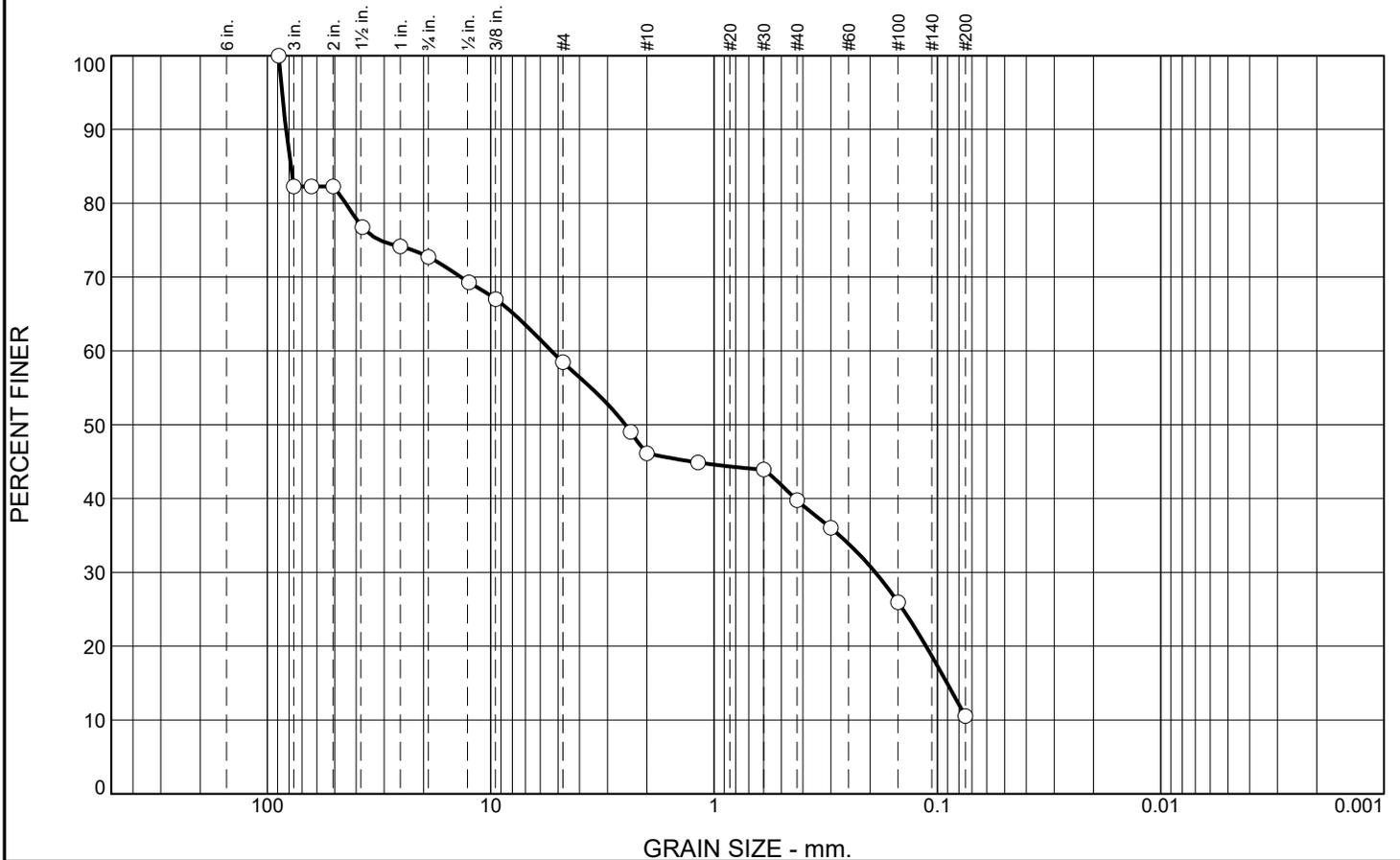
* (no specification provided)

Source of Sample: TP-16 Depth: 3 to 4 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ar
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Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
18	24	47	11	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 1/2"	100		
3"	82		
2 1/2"	82		
2"	82		
1 1/2"	77		
1"	74		
3/4"	73		
1/2"	69		
3/8"	67		
#4	58		
#8	49		
#10	46		
#16	45		
#30	44		
#40	40		
#50	36		
#100	26		
#200	11		

Material Description

Silty SAND with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 82.6741 D₈₅= 78.9669 D₆₀= 5.3511
D₅₀= 2.4944 D₃₀= 0.1896 D₁₅= 0.0905
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

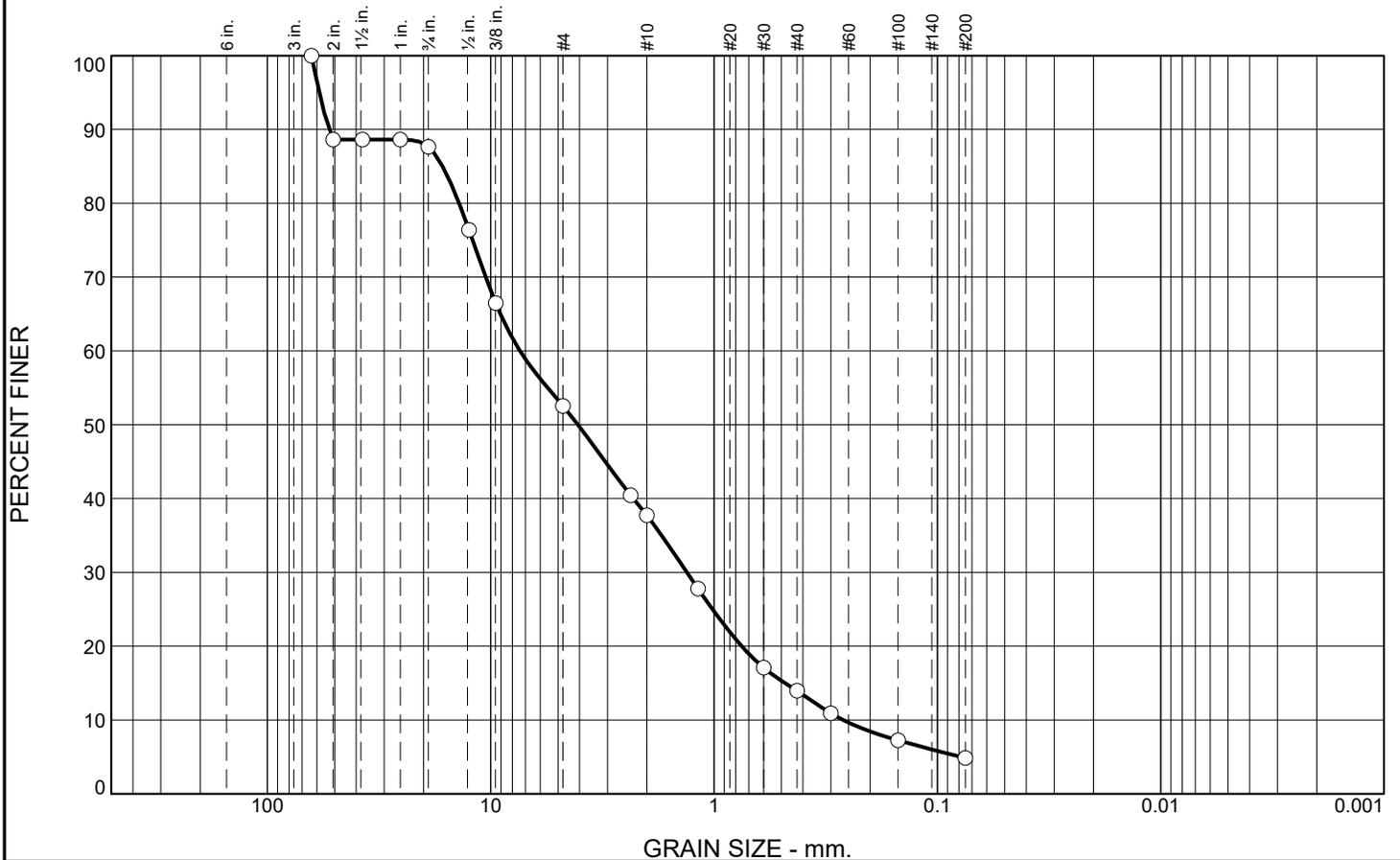
* (no specification provided)

Source of Sample: TP-17 **Depth:** 8 to 10 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111as
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	47	48	5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 1/2"	100		
2"	89		
1 1/2"	89		
1"	89		
3/4"	88		
1/2"	76		
3/8"	66		
#4	53		
#8	40		
#10	38		
#16	28		
#30	17		
#40	14		
#50	11		
#100	7		
#200	5		

Material Description

Poorly graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 52.9173 D₈₅= 16.4244 D₆₀= 7.3971
D₅₀= 4.0737 D₃₀= 1.3237 D₁₅= 0.4808
D₁₀= 0.2644 C_u= 27.98 C_c= 0.90

Classification

USCS= SP-SM AASHTO= A-1-a

Remarks

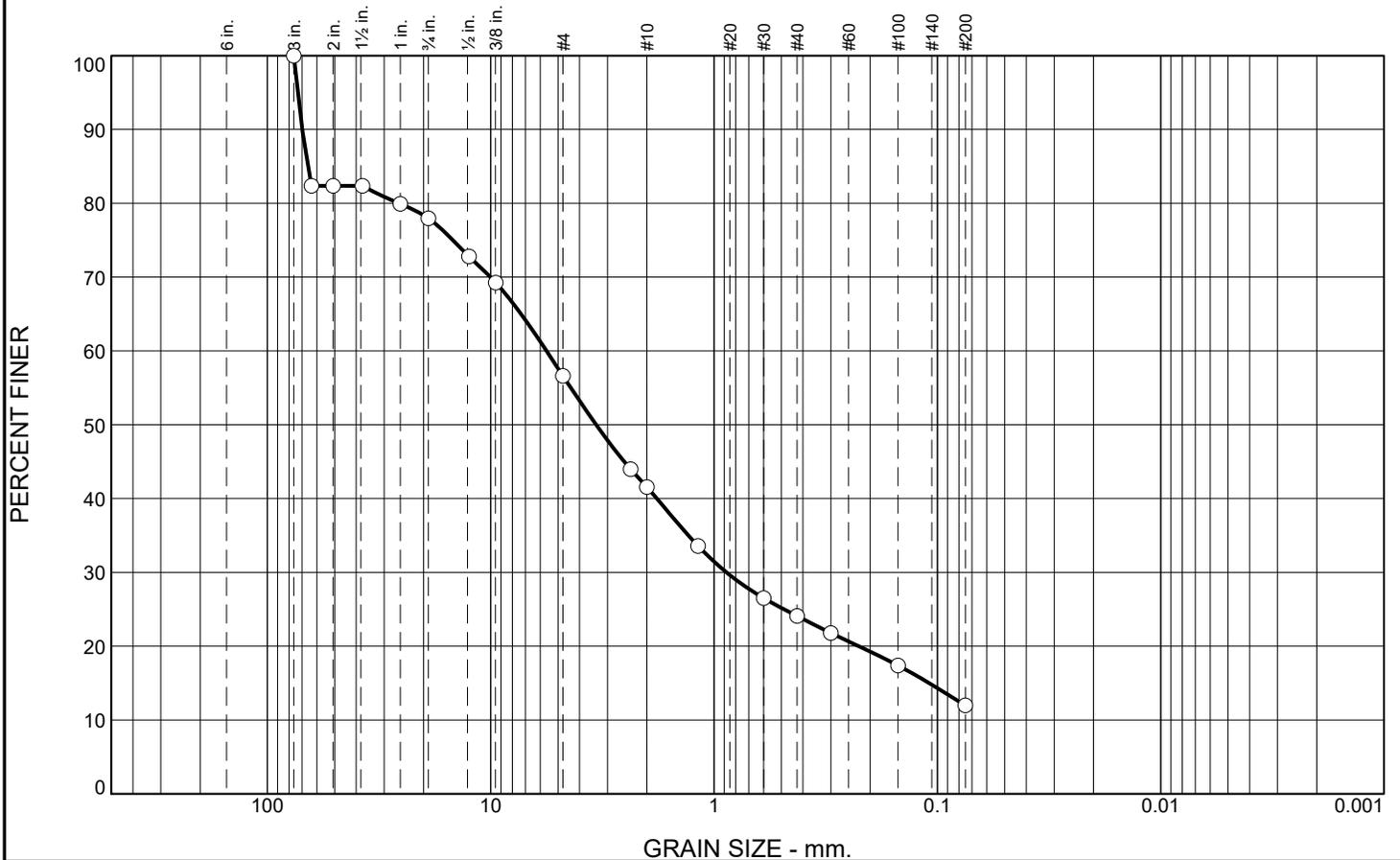
* (no specification provided)

Source of Sample: TP-19 **Depth:** 9 to 10 ft. **Date:** 3/23/22

<p>Nova Geotechnical and Inspection Services Las Vegas, Nevada</p>	<p>Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111at</p>
-------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	43	45	12	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100		
2 1/2"	82		
2"	82		
1 1/2"	82		
1"	80		
3/4"	78		
1/2"	73		
3/8"	69		
#4	57		
#8	44		
#10	42		
#16	34		
#30	27		
#40	24		
#50	22		
#100	17		
#200	12		

Material Description

Poorly graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 69.8313 D₈₅= 66.1386 D₆₀= 5.6290
D₅₀= 3.3731 D₃₀= 0.8802 D₁₅= 0.1090
D₁₀= C_u= C_c=

Classification

USCS= SP-SM AASHTO= A-1-a

Remarks

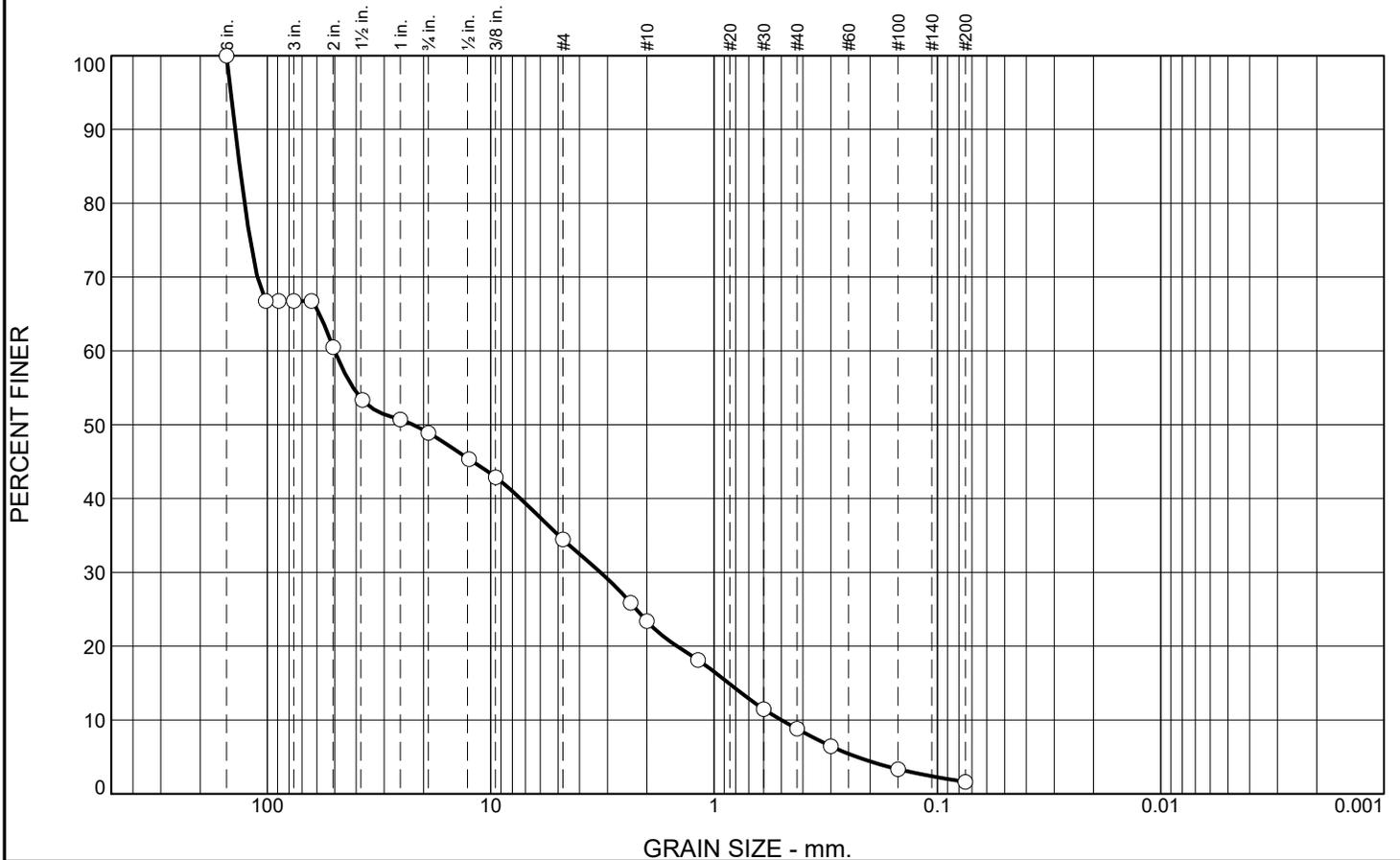
* (no specification provided)

Source of Sample: TP-21 Depth: 3 to 4 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111au
----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
33	33	32	2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
6"	100		
4"	67		
3 1/2"	67		
3"	67		
2 1/2"	67		
2"	61		
1 1/2"	53		
1"	51		
3/4"	49		
1/2"	45		
3/8"	43		
#4	34		
#8	26		
#10	23		
#16	18		
#30	11		
#40	9		
#50	6		
#100	3		
#200	2		

* (no specification provided)

Material Description

Poorly graded GRAVEL with sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 139.4373 D₈₅= 133.0450 D₆₀= 50.0113
D₅₀= 22.2868 D₃₀= 3.2286 D₁₅= 0.8610
D₁₀= 0.5002 C_u= 99.99 C_c= 0.42

Classification

USCS= GP AASHTO= A-1-a

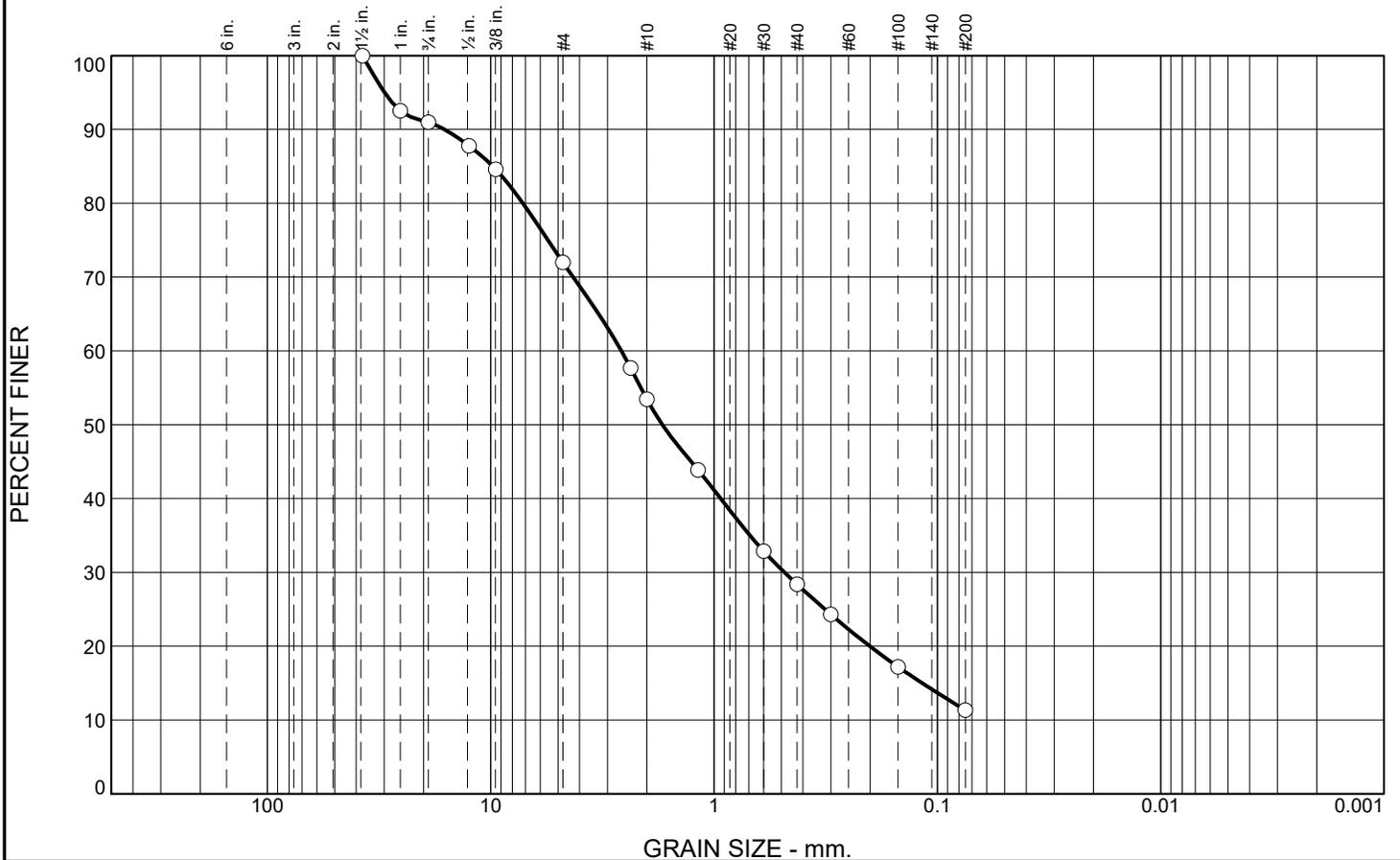
Remarks

Source of Sample: TP-22 Depth: 14 to 15 ft. Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111av
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	28	61	11	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100		
1"	93		
3/4"	91		
1/2"	88		
3/8"	85		
#4	72		
#8	58		
#10	53		
#16	44		
#30	33		
#40	28		
#50	24		
#100	17		
#200	11		

Material Description

Poorly graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 16.0876 D₈₅= 9.7807 D₆₀= 2.5968
D₅₀= 1.7032 D₃₀= 0.4841 D₁₅= 0.1171
D₁₀= C_u= C_c=

Classification

USCS= SP-SM AASHTO= A-1-b

Remarks

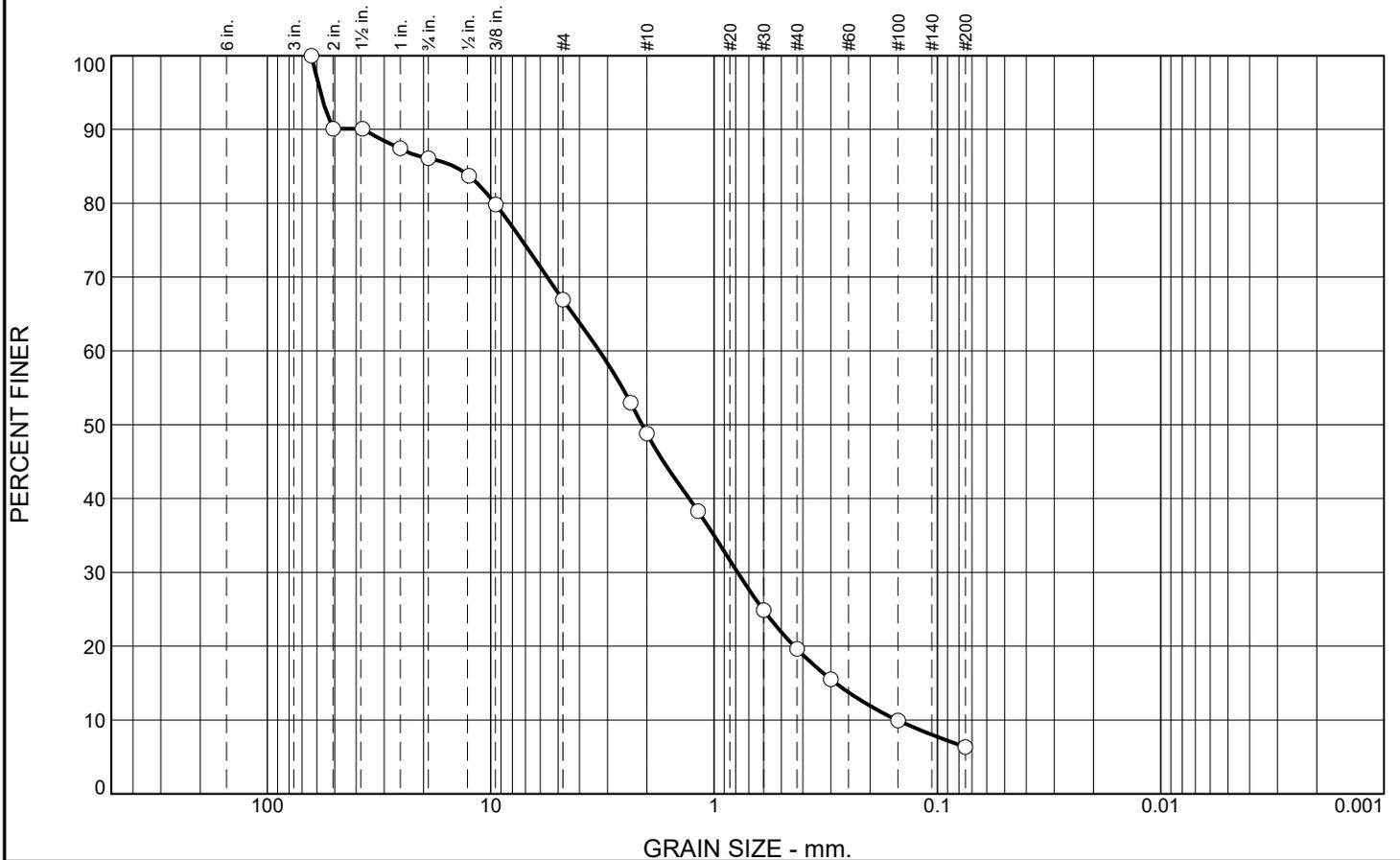
* (no specification provided)

Source of Sample: TP-23 **Depth:** 5 to 6 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111aw
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP **Checked By:** JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	33	61	6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 1/2"	100		
2"	90		
1 1/2"	90		
1"	87		
3/4"	86		
1/2"	84		
3/8"	80		
#4	67		
#8	53		
#10	49		
#16	38		
#30	25		
#40	20		
#50	16		
#100	10		
#200	6		

* (no specification provided)

Material Description

Well graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 37.0868 D₈₅= 14.5908 D₆₀= 3.2642
D₅₀= 2.0996 D₃₀= 0.7846 D₁₅= 0.2855
D₁₀= 0.1515 C_u= 21.55 C_c= 1.25

Classification

USCS= SW-SM AASHTO= A-1-a

Remarks

Source of Sample: TP-24 **Depth:** 7 to 8 ft.

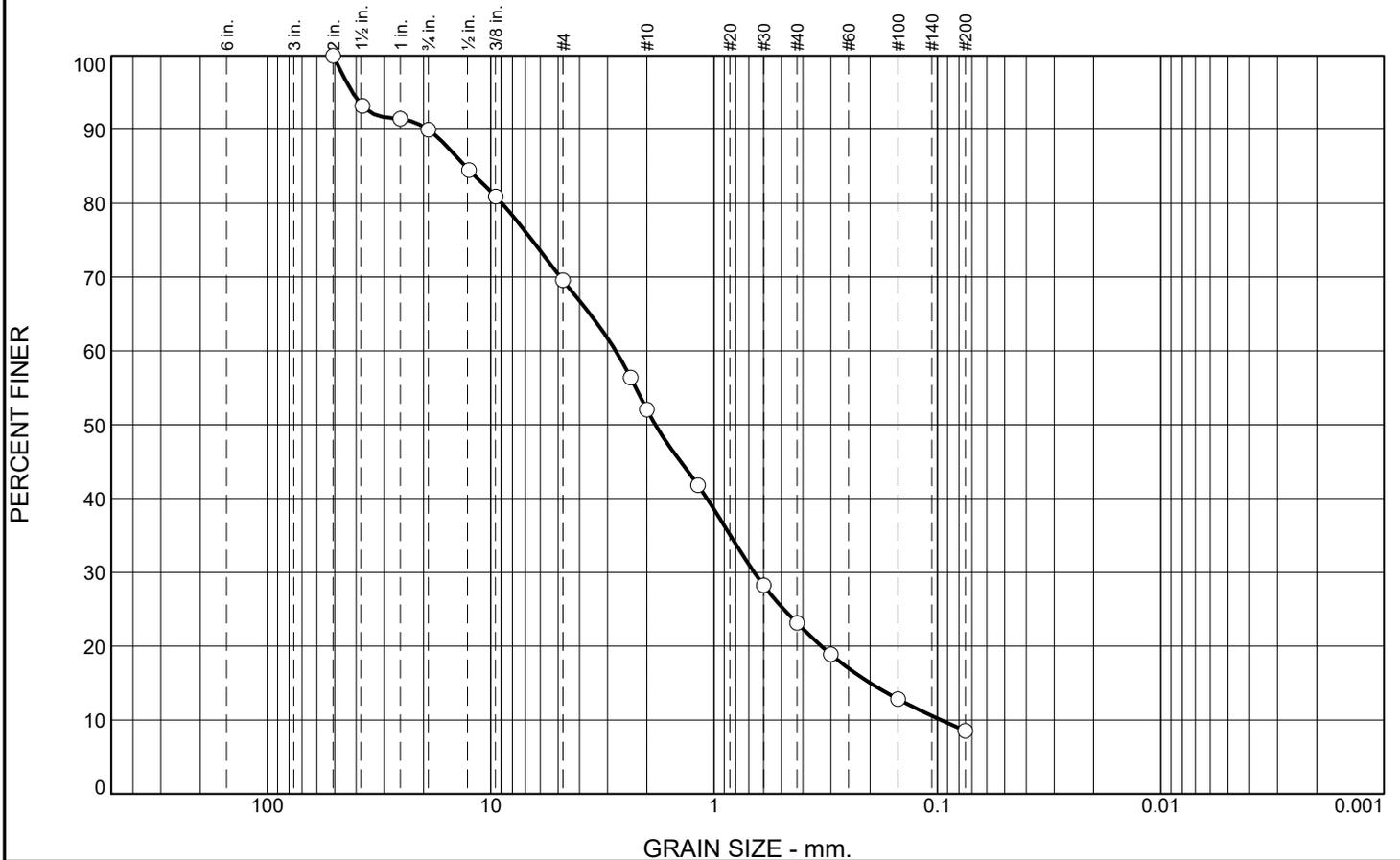
Date: 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ax
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DP

Checked By: JS

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0	30	61	9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1 1/2"	93		
1"	91		
3/4"	90		
1/2"	84		
3/8"	81		
#4	70		
#8	56		
#10	52		
#16	42		
#30	28		
#40	23		
#50	19		
#100	13		
#200	9		

Material Description

Well graded SAND with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 19.0843 D₈₅= 12.9626 D₆₀= 2.7549
D₅₀= 1.8325 D₃₀= 0.6610 D₁₅= 0.1999
D₁₀= 0.0965 C_u= 28.55 C_c= 1.64

Classification

USCS= SW-SM AASHTO= A-1-b

Remarks

* (no specification provided)

Source of Sample: TP-27 **Depth:** 10 to 11 ft. **Date:** 3/23/22

Nova Geotechnical and Inspection Services Las Vegas, Nevada	Client: Pulte Homes Project: Three Kids Mine Site Mixed-Use Development Project No: 4030.2100354 Figure 111ay
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Tested By: DP **Checked By:** JS



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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-01
Client Sample ID B5 @ 20'-25'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	380	100		mg/Kg	10	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.00500	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.170	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.32	0.0100		%	1	3/11/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-03
Client Sample ID B9 @ 5'-10'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	1500	500		mg/Kg	50	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.00100	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.140	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.400	0.0100		%	1	3/11/2022 10:29:00 AM

Qualifiers: DF Dilution Factor.
 (Qual) MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22030722
 Date Reported: 3/14/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030722-03
Client Sample ID B11 @ 5'-10'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	100	50		mg/Kg	5	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0600	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.420	0.0100		%	1	3/14/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22030722
 Date Reported: 3/14/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030722-05
Client Sample ID B12 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	140	50		mg/Kg	5	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0700	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.540	0.0100		%	1	3/14/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original



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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-02
Client Sample ID B13 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	430	100		mg/Kg	10	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.00100	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.160	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.04	0.0100		%	1	3/11/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-05
Client Sample ID B14 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	220	50		mg/Kg	5	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.160	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.21	0.0100		%	1	3/11/2022 10:29:00 AM

Qualifiers: DF Dilution Factor.
 (Qual) MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original

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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-04
Client Sample ID B19 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	210	50		mg/Kg	5	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.180	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.23	0.0100		%	1	3/11/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original

Plate 112g



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Analytical Report

WO#: 22030722
 Date Reported: 3/14/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030722-04
Client Sample ID B20 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	93	50		mg/Kg	5	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0600	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.240	0.0100		%	1	3/14/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original



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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-08
Client Sample ID B21 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	ND	50		mg/Kg	5	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0300	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.0500	0.0100		%	1	3/11/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-07
Client Sample ID B22 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	ND	50		mg/Kg	5	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0100	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.0500	0.0100		%	1	3/11/2022 10:29:00 AM

Qualifiers: DF Dilution Factor.
 (Qual) MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-10
Client Sample ID B23 @ 0'-5'

Collection Date:

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	74	50		mg/Kg	5	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0300	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.110	0.0100		%	1	3/11/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original

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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-06
Client Sample ID B24 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	230	50		mg/Kg	5	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.231	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.160	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	0.110	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.860	0.0100		%	1	3/11/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22030663

Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-12
Client Sample ID B27 @ 0'-5'

Collection Date:

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	57	50		mg/Kg	5	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0400	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.170	0.0100		%	1	3/11/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
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Analytical Report

WO#: 22030663
 Date Reported: 3/11/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030663-09
Client Sample ID B30 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	870	250		mg/Kg	25	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.0940	0		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.170	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	0.0300	0.0100		%	1	3/11/2022 11:17:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.56	0.0100		%	1	3/11/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

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Analytical Report

WO#: 22030722
 Date Reported: 3/14/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030722-02
Client Sample ID B31 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	70	50		mg/Kg	5	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.200	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.730	0.0100		%	1	3/14/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22030722
 Date Reported: 3/14/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22030722-01
Client Sample ID B32 @ 0'-5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	89	50		mg/Kg	5	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0500	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	3/14/2022 11:11:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.190	0.0100		%	1	3/14/2022 10:29:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22010379
 Date Reported: 1/10/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22010379-01
Client Sample ID MM-321-02 @ 10'-13'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	92	50		mg/Kg	5	1/10/2022 11:40:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/10/2022 3:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.200	0.0100		%	1	1/10/2022 11:42:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/10/2022 1:35:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.18	0.0100		%	1	1/10/2022 11:26:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original

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Analytical Report

WO#: 22011334
 Date Reported: 1/28/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22011334-01
Client Sample ID MM 331 21 @ 10'-13'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	ND	50		mg/Kg	5	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/28/2022 4:24:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.280	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.36	0.0100		%	1	1/28/2022 9:59:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22011334
 Date Reported: 1/28/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22011334-02
Client Sample ID MM 331 26 @ 6'-8'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	ND	50		mg/Kg	5	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/28/2022 4:24:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.250	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.21	0.0100		%	1	1/28/2022 9:59:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22011334
 Date Reported: 1/28/2022

CLIENT: Nova Geotechnical **Collection Date:**
Project: 4030.2100354
Lab ID: 22011334-08 **Matrix:** SOIL
Client Sample ID SS 321 05 @ 16'-17'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	160	50		mg/Kg	5	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/28/2022 4:24:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.0300	0.0100		%	1	1/28/2022 9:59:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22010891
 Date Reported: 1/20/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22010891-03
Client Sample ID SS-311-20 @ 17'-20'

Collection Date:

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	140	50		mg/Kg	5	1/20/2022 12:31:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.0100	0		%	1	1/20/2022 4:17:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.200	0.0100		%	1	1/20/2022 12:32:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/20/2022 12:33:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.73	0.0100		%	1	1/20/2022 11:30:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22010891
 Date Reported: 1/20/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22010891-01
Client Sample ID SS-331-02 @ 1'-4'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	ND	50		mg/Kg	5	1/20/2022 12:31:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/20/2022 4:17:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0900	0.0100		%	1	1/20/2022 12:32:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/20/2022 12:33:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.420	0.0100		%	1	1/20/2022 11:30:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original



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Analytical Report

WO#: 21121019
 Date Reported: 12/21/2021

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 21121019-02
Client Sample ID SS 331-09 5'-10'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	79	50		mg/Kg	5	12/21/2021 10:41:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	12/21/2021 12:58:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.140	0.0100		%	1	12/21/2021 12:38:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	12/21/2021 12:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.20	0.0100		%	1	12/21/2021 10:17:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22011334
 Date Reported: 1/28/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22011334-05
Client Sample ID SS 332 03 @ 5'-7'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	200	50		mg/Kg	5	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/28/2022 4:24:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.200	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.960	0.0100		%	1	1/28/2022 9:59:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original

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Analytical Report

WO#: 21121019
 Date Reported: 12/21/2021

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 21121019-03
Client Sample ID SS 332-07 15'-20'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	ND	50		mg/Kg	5	12/21/2021 10:41:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	12/21/2021 12:58:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.170	0.0100		%	1	12/21/2021 12:38:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	12/21/2021 12:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.22	0.0100		%	1	12/21/2021 10:17:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22011334
 Date Reported: 1/28/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22011334-04
Client Sample ID SS 332 09 @ 6'-8'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	1200	250		mg/Kg	25	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.125	0		%	1	1/28/2022 4:24:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.190	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	0.0400	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.690	0.0100		%	1	1/28/2022 9:59:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22010380
 Date Reported: 1/10/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22010380-01
Client Sample ID SS-333-01 @ 15'-17.5'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	61	50		mg/Kg	5	1/10/2022 11:40:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/10/2022 3:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0300	0.0100		%	1	1/10/2022 11:42:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/10/2022 1:35:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.0900	0.0100		%	1	1/10/2022 11:26:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22010891
 Date Reported: 1/20/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22010891-02
Client Sample ID SS-333-07 @ 2'-4'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	820	250		mg/Kg	25	1/20/2022 12:31:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/20/2022 4:17:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.160	0.0100		%	1	1/20/2022 12:32:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/20/2022 12:33:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.850	0.0100		%	1	1/20/2022 11:30:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 21121019
 Date Reported: 12/21/2021

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 21121019-04
Client Sample ID SS 333-09 10'-15'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	ND	50		mg/Kg	5	12/21/2021 10:41:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	12/21/2021 12:58:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.160	0.0100		%	1	12/21/2021 12:38:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	12/21/2021 12:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.23	0.0100		%	1	12/21/2021 10:17:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22011334
 Date Reported: 1/28/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22011334-06
Client Sample ID SS 333 11 @ 1'-2'

Collection Date:

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	56	50		mg/Kg	5	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/28/2022 4:24:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.200	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.880	0.0100		%	1	1/28/2022 9:59:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22010379
 Date Reported: 1/10/2022

CLIENT: Nova Geotechnical **Collection Date:**
Project: 4030.2100354
Lab ID: 22010379-02 **Matrix:** SOIL
Client Sample ID SS-333-17 @ 7.5'-10'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	91	50		mg/Kg	5	1/10/2022 11:40:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/10/2022 3:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.200	0.0100		%	1	1/10/2022 11:42:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/10/2022 1:35:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.17	0.0100		%	1	1/10/2022 11:26:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22010379
 Date Reported: 1/10/2022

CLIENT: Nova Geotechnical **Collection Date:**
Project: 4030.2100354
Lab ID: 22010379-03 **Matrix:** SOIL
Client Sample ID SS-333-18 @ 2.5'-5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	350	100		mg/Kg	10	1/10/2022 11:40:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.00600	0		%	1	1/10/2022 3:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.370	0.0100		%	1	1/10/2022 11:42:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/10/2022 1:35:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.02	0.0100		%	1	1/10/2022 11:26:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22011334
 Date Reported: 1/28/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22011334-07
Client Sample ID SS 334 07 @ 1'-2'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	490	100		mg/Kg	10	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.00500	0		%	1	1/28/2022 4:24:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.320	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	2.28	0.0100		%	1	1/28/2022 9:59:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original

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Analytical Report

WO#: 21121019
 Date Reported: 12/21/2021

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 21121019-01
Client Sample ID SS 334-10 25'-30'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	900	250		mg/Kg	25	12/21/2021 10:41:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.0130	0		%	1	12/21/2021 12:58:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.160	0.0100		%	1	12/21/2021 12:38:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	12/21/2021 12:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	2.26	0.0100		%	1	12/21/2021 10:17:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22011334
 Date Reported: 1/28/2022

CLIENT: Nova Geotechnical **Collection Date:**
Project: 4030.2100354
Lab ID: 22011334-03 **Matrix:** SOIL
Client Sample ID SS 334 15 @ 27'-30'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	ND	50		mg/Kg	5	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/28/2022 4:24:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/28/2022 11:57:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.0600	0.0100		%	1	1/28/2022 9:59:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22010380
 Date Reported: 1/10/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354
Lab ID: 22010380-02
Client Sample ID SS-334-20 @ 14'-15'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	400	100		mg/Kg	10	1/10/2022 11:40:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	1/10/2022 3:57:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0300	0.0100		%	1	1/10/2022 11:42:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	1/10/2022 1:35:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.0800	0.0100		%	1	1/10/2022 11:26:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

Original



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Analytical Report

WO#: 22020972
 Date Reported: 2/18/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354.001
Lab ID: 22020972-04
Client Sample ID TP 2 @ 5'-6'

Collection Date:

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	1100	250		mg/Kg	25	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.00300	0		%	1	2/18/2022 4:14:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.170	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.780	0.0100		%	1	2/18/2022 10:04:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22020972
 Date Reported: 2/18/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354.001
Lab ID: 22020972-03
Client Sample ID TP 3 @ 3'-4'

Collection Date:

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	200	50		mg/Kg	5	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.00100	0		%	1	2/18/2022 4:14:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.180	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.12	0.0100		%	1	2/18/2022 10:04:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22020972
 Date Reported: 2/18/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354.001
Lab ID: 22020972-05
Client Sample ID TP 4 @ 6'-7'

Collection Date:

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	360	100		mg/Kg	10	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	2/18/2022 4:14:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.150	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.370	0.0100		%	1	2/18/2022 10:04:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22020972
 Date Reported: 2/18/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354.001
Lab ID: 22020972-06
Client Sample ID TP 7 @ 5'-6'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	1300	250		mg/Kg	25	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	0.0140	0		%	1	2/18/2022 4:14:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.230	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	1.67	0.0100		%	1	2/18/2022 10:04:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22020972
 Date Reported: 2/18/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354.001
Lab ID: 22020972-02
Client Sample ID TP 10 @ 5'-6'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	390	100		mg/Kg	10	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	2/18/2022 4:14:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0400	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.190	0.0100		%	1	2/18/2022 10:04:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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Analytical Report

WO#: 22020972
 Date Reported: 2/18/2022

CLIENT: Nova Geotechnical
Project: 4030.2100354.001
Lab ID: 22020972-01
Client Sample ID TP 13 @ 7'-8'

Collection Date:
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD CHLORIDE - SOILS						Analyst: LJ
Chloride	80	50		mg/Kg	5	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD SODIUM SULFATES - CALCULATION ONLY.						Analyst: LJ
Sodium Sulfate as Na2SO4	ND	0		%	1	2/18/2022 4:14:00 PM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SULFATE (SO4)						Analyst: LJ
Sulfate	0.0500	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD WATER SOLUBLE SODIUM (NA)						Analyst: LJ
Sodium	ND	0.0100		%	1	2/18/2022 11:05:00 AM
SOIL 5. WSSS(SODIUM SULFATE),SOL,CH-CCBD TOTAL SALTS (SOLUBILITY)						Analyst: LJ
Solubility	0.120	0.0100		%	1	2/18/2022 10:04:00 AM

**Qualifiers:
(Qual)**

DF Dilution Factor.
 MCL Maximum Contaminant Level.
 PQL Practical Quantitation Limit.

H Holding times for preparation or analysis exceeded.
 ND Not Detected at the PQL.

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