

GeoMat Testing Laboratories, Inc.

Soil Engineering, Environmental Engineering, Materials Testing, Geology March 25, 2016

Project No. 16027-03

- TO: Mr. Shakil Patel, AIA 25982 Hinkley Street Loma Linda, California 92354
- SUBJECT: Report of Preliminary Shallow Percolation Testing, Northwest Corner of Beaumont Avenue and Nevada Street, APN 0293-111-15-0000, Redlands, California

Introduction

In accordance with your authorization, GeoMat Testing Laboratories, Inc. has performed preliminary percolation testing for the subject site. The purpose of our work is to establish an average flow rate for the proposed onsite septic system.

The accompanying report presents a summary of our findings, with conclusions and recommendations for the proposed septic system. Location of field testing and system location have been plotted on Plate 1.

The subject site is proposed for three structures, play fields, an outdoor fountain, and large parking area.

Based on our drilling at existing grades, groundwater was not encountered in our boring which was drilled to a maximum depth of 15 feet below ground surface.

It should be noted that this work was for shallow percolation testing purposes. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report. The percolation testing and related laboratory test data are believed representative of the project site in its current condition. The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they may be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge.

If you have any questions regarding this report, please do not hesitate to call this office. We appreciate this opportunity to be of service.

Submitted for GeoMat Testing Laboratories, Inc.

Gudman Lia Q.

Haytham Nabilsi, GE 2375 Project Engineer

Distribution: (3) Addressee



ATTACHMENTS

- Figure 1 Site Location Map
- Plate 1 Exploratory Borehole/Percolation Tests/System Location Map
- Appendix A References
- Appendix B Exploratory Borehole Log
- Appendix C Laboratory Test Results
- Appendix D Percolation Test Data

PRELIMINARY FEASIBILITY REPORT

Assessors Parcel No.

0293-111-15-0000

Property Representative

Mr. Shakil Patel, AIA 25982 Hinkley Street Loma Linda, California 92354 (909)796-4437

Land Location and Description

The subject site is located on the northwestern corner of Beaumont Avenue and Nevada Street, Redlands, California. Both Beaumont Avenue and Nevada Street are paved streets without curb or gutter. The geographical relationship of the site and surrounding vicinity is shown on our Site Location Map, Figure 1.

The site is approximately five and a half acres. Topography of the site is generally flat with a maximum relief of 9 feet. Surface drainage sheeting flows to the northwest at a rate of approximately 1.3%. Currently the site is vacant with light seasonal grasses sparsely spread about.

Proposed Development

We understand that a new community center is proposed for the site. The new structure will utilize onsite sewage disposal following the leach line septic system.

Groundwater

Groundwater study is not within the scope of this work. Groundwater was not encountered in our exploratory borings drilled at the site up to 15 feet below ground surface. Depth to groundwater is not expected to impact site grading.

Highest historical groundwater record documented by the State of California, Department of Water Resources in a well located approximately 1 mile northeast of the site (State Well No. 01S03W33C001S, elevation 1206) was 65 feet (water surface elevation of 1141) below ground surface on March 28, 1945. The lowest site elevation is approximately 1248 feet.

Please note that the potential for rain or irrigation water locally seeping through from elevated areas and showing up near grades cannot be precluded. Our experience indicates that surface or near-surface groundwater conditions can develop in areas where groundwater conditions did not exist prior to site development, especially in areas where a substantial increase in surface water infiltration results from landscape irrigation. Fluctuations in perched water elevations are likely to occur in the future due to variations in precipitation, temperature, consumptive uses, and other factors including mounding of perched water over bedrock. Mitigation for nuisance shallow seeps moving from elevated lower areas will be needed if encountered. These mitigations may include subdrains, horizontal drains, toe drains, french drains, heel drains or other devices.

<u>Geology</u>

Based on the USGS Preliminary Geologic Map of the Sunnymead/South 1/2 of Redlands Quadrangles, the site is mapped as young alluvium fan deposits consisting of unindurated and undissected alluvial sand gravel, and clay of valley areas, covered with thick soil.

Subsurface Soil Characteristics

Three exploratory boreholes were drilled on February 28, 2016, to a maximum depth of 15 feet below existing ground surface utilizing a CME 45 equipped with 8-inch hollows stem augers. Refer to Plate 1 for location of exploratory boreholes.

In general, boreholes revealed that the site is underlain by younger alluvial fan deposits to the maximum explored depth. The primary soils encountered are well-graded sand with gravel, well-graded sand with silt and gravel, silty sand and sandy silt (USCS "SW", "SW-SM", "SM", and "ML", respectively) in the upper approximately fifteen feet.

Descriptions of the materials are presented in the form of Geotechnical Boring Logs in Appendix B.

Laboratory Testing

Sieve analysis was performed on a selected soil sample obtained from the shallow boreholes for the purpose of classification. Graphical test results are shown in Appendix C.

Percolation Study

GeoMat Testing Laboratories performed percolation testing for the proposed structure in general accordance with the procedures of the County of San Bernardino, Department of Public Health, Division of Environmental Health Services' Onsite Waste Water Disposal System, Soil Percolation (PERC) Test Report Standards.

Test Procedures

- Four percolation tests were conducted for the proposed septic system. The boreholes were tested between 37 and 44 inches below ground surface. A PVC perforated pipe covered with filter fabric was placed in the holes. Two inches of gravel was placed at the bottom of the boreholes.
- The test holes were presoaked the day before testing by filling the test hole with water and inverting a 5 gallon bottle in the test hole.
- The next day, test holes were manually cleaned prior to testing.
- Testing was conducted by filling each test hole to six inches above the gravel. At least five inches of
 water seeped away in less than 30 minutes. Accordingly testing was conducted every ten minutes.
 Time intervals were adjusted accordingly, to provide a minimum of one inch drop and not more than
 three in drop for each reading

Test Results

The following table presents the actual and recommended percolation rates in minutes per inch and square feet per 100 gallons of septic tank capacity for the test holes.

| Test No. | Test Depth (in) | Soil Classification (USCS) | Percolation Rate (min/in) | Square Feet per Gallon per Day | | | | |
|-------------|--------------------|-------------------------------|------------------------------|-----------------------------------|--|--|--|--|
| P-1 | 37" | SW-SM | 1.6 | 0.83 | | | | |
| P-2 | 44" | SM | 2.3 | 0.83 | | | | |
| P-3 | 43" | SM | 1.6 | 0.83 | | | | |
| P-4 | 42" | SM | 2.0 | 0.83 | | | | |

Discussion and Design

Based on our visual observation and laboratory testing, the onsite soil consists of generally the same material, sand with silt and silty sand, to the maximum depth explored of 15 feet below ground surface. The variation in test results can be attributed to soil classification, soil texture, and density of soils.

Based on percolation test results the onsite soils have favorable percolation rates. Test results are appropriate to soil classification.

No restrictive layer was encountered during drilling to 15 feet below ground surface.

No caving of test holes took place during testing.

The system configuration is as follows:

| Septic Tank | Flow | Length of Leach Lines | Depth of Trench | Spacing | | | |
|-------------|--------------|--------------------------|--------------------|---------|--|--|--|
| 5000 gal | 4200 gal/day | 5 lines, 100 feet each | | | | | |
| 3000 gal | 3000 gal/day | 4 lines 90 feet each | 3X3 ft | 8 ft | | | |
| 2000 gal | 2000 gal/day | 3 lines 80 feet long | | | | | |

Conclusions and Recommendations

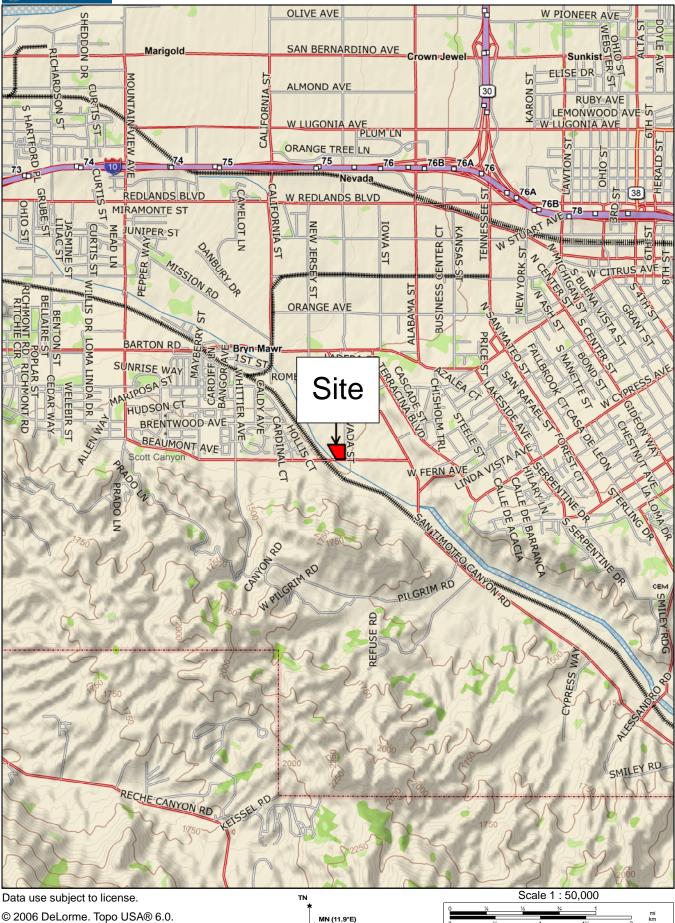
- Based on the data presented in this report and using the recommendations set forth, it is the judgment of GeoMat Testing Laboratories, Inc. that there is sufficient area on this site to support a primary and expansion of the onsite wastewater system that will meet the current standards of the Department of Environmental Health, County of San Bernardino and Regional Quality Control Board.
- Based on the data presented in this report and the testing information accumulated, it is the judgment of GeoMat Testing Laboratories, Inc. that the groundwater table will not encroach within the current allowable limit set forth by County and State requirements.
- Based on laboratory test results, the natural occurring body of minerals and organic matter at the proposed wastewater disposal area contains earthern materials having more than 50% of its volume composed of particles smaller than 2 mm in size.
- Trenches should be constructed near the percolation test location at the depth of the tests performed and in natural soil to details per County of San Bernardino Health Department, Division of Environmental Health. All systems must meet the CRWQCB requirements.
- All excavations should be observed by GeoMat Testing Laboratories, Inc. Copy of the DEHS septic system handout "Taking Care of Your Septic System" and "Got Septic FAQ" should be obtained by the developer to provide it to owner.

Limitation

This report is prepared with the understanding that it is the owner's responsibility to ensure that proper construction methods are employed for the disposal system. Improper placement/construction of the system can cause premature failure regardless of soil conditions. It is also the owner's responsibility to adequately maintain the disposal system to extend its longevity. Our work was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable soil engineers practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report. The samples taken and used for laboratory testing and the observations made are believed representative of the tested areas, however, soil conditions can vary significantly between test locations. As in most projects conditions revealed by excavation may be at variance with preliminary findings. If this occurs, the changed conditions must be evaluated by the Project Soil Engineer and design adjusted, as required, or alternate designs recommended. This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information and recommendations contained herein are brought to the attention of the architect and engineer for the project and incorporated into the plans, and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field. The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and revision as changed conditions are identified.

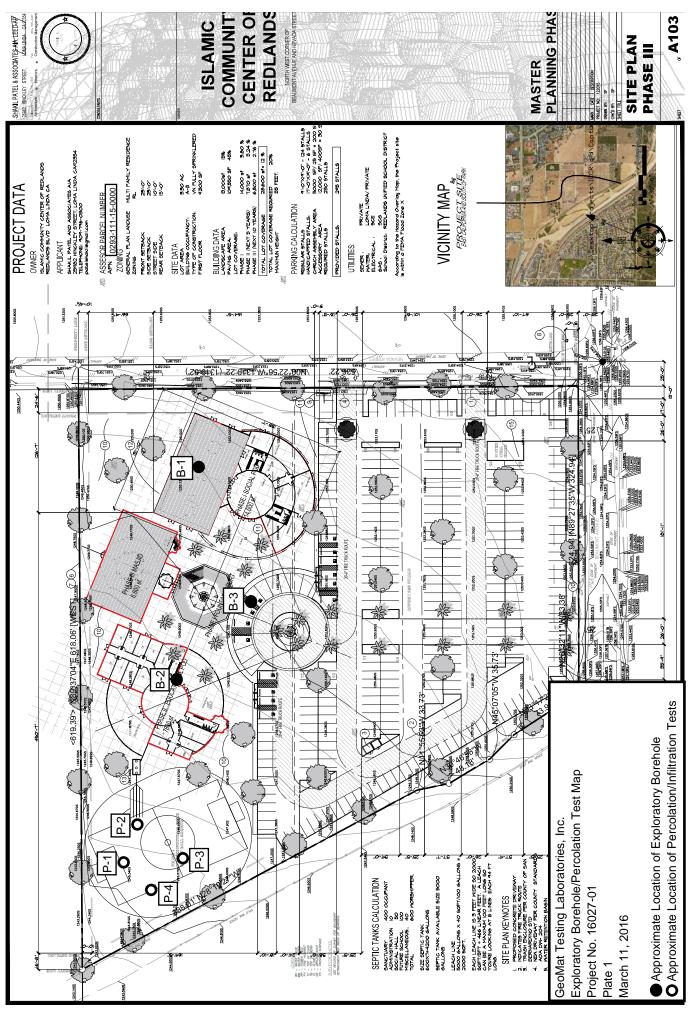
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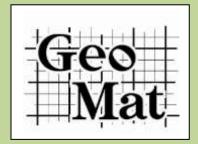
www.delorme.com

1" = 4,166.7 ft Data Zoom 12-0



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Appendix A



REFERENCES

Shakil Patel & Associates' Islamic Community Center of Redlands, Northwest Corner of Beaumont Avenue and Nevada Street, Redlands, California, Site Plan Phase III, Sheet A103, Plan Dated February 2, 2016.

USGS, Geologic Map of the Sunnymead and South 1/2 Redlands Quadrangles, Thomas W. Dibblee, Jr., 2003.

San Bernardino County Land Use Plan, General Plan, Geologic Hazard Overlays, FH31C, Redlands

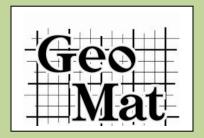
County of San Bernardino Property Viewer.

Western Municipal Water District, Cooperative Well Measuring Program, Spring 2013.

California Department of Water Resources, Water Data Library.

County of San Bernardino, Department of Public Health, Division of Environmental Health Services' Onsite Waste Water Disposal System, Soil Percolation (PERC) Test Report Standards, August 1992.

Appendix B



General Notes

WATER LEVEL MEASUREMENTS

Water levels indicated on the boring logs are levels measured in the borings at the times indicated. In permeable materials, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels is not possible with only short-term observations.

WATER LEVEL OBSERVATION DESIGNATION

- W.D. While Drilling
- A.B. After Boring

TEXTURE

PARTICI F

Medium

Very Stiff

Stiff

Hard

Clay

B.C.R. Before Casing Removal

< 0.002 mm

- ACR After Casing Removal
- 24 hr. Water level taken approximately 24 hrs. after boring completion

(< 0.002 mm)

SIZE

DRILLING NOTES

AS

CS

DB

HA

HS

PA

RB

SS

ST

WB

CR

SAND & GRAVEL

(48 - 96)

(96 - 192)

DRILLING AND SAMPLING SYMBOLS

- Auger Sample Continuous Sampler Diamond Bit -NX unless otherwise noted Hand Auger Hollow Stem Auger Power Auger Rock Bit Split-Barrel Shelby Tube - 2" (51mm) unless otherwise noted
- *The Standard Penetration Test is conducted in conjunction with the splitbarrel sampling procedure. The "N" value corresponds to the number of blows required to drive the last 1 foot (0.3m) of an 18 in. (0.46m) long, 2 in. (51mm) O.D. split-barrel sampler with a 140 lb. (63.5 kg) hammer falling a distance of 30 in. (0.76m). The Standard Penetration Test is carried out according to ASTM D-1586. (See "N" Value below.)
- Wash Bore Calfornia Ring Sampler 3" O.D., Lined with 2.5"X1" Rings

SOIL PROPERTIES & DESCRIPTIONS COMPOSITION

Soil descriptions are based on the Unified Soil Classification System (USCS) as outlined in ASTM Designations D-2487 and D-2488. The USCS group symbol shown on the boring logs correspond to the group names listed below. The description includes soil constituents, consistency, relative density, color and other appropriate descriptive terms. Geologic description of bedrock, when encountered, also is shown in the description column

| Sand Gravel Cobbles | < #200 Sieve #4 to #200 Sieve 3 in. to #4 Sieve 12 in. to 3 in. > 12 in. | (0.075 mm) (4.75 to 0.075 mm) (75 mm to 4.75 mm) (300 mm to 75 mm) (300 mm) | Description trace with modifer FINES Description trace with modifier | % by Dry Weight < 15 15 - 29 > 30 % by Dry Weight < 5 5 - 12 > 12 | | Well Graded Gravel Poorly Graded Gravel Silty Gravel Clayey Gravel Well Graded Sand Poorly Graded Sand Silty Sand Clayey Sand | | otion column. |
|--|--|---|--|--|---------------------------|--|---|---|
| COHESIVE S | OILS | | | | C | Cohessive Soils | COHESIONLESS S | SOILS |
| CONSISTEN Very Soft Soft Modium | (r < 500 500 | FINED COMPRESSIVE (ssf) - 1000 - 1000 | STRENGTH (Qu) (kPa) (< 24) (24 - 48) (49 - 96) | PLASTICITY Description Lean | Liquid Limit (%) < 45% | Very Soft <2 Soft 2-4 Medium 4-8 Stiff (Firm) 8-15 | RELATIVE DENSI Very Loose Loose Medium Dense | TY "N" VALUE" 0 - 3 4 - 9 10 - 29 20 - 40 |

(192 - 383) (> 383) **BEDROCK PROPERTIES & DESCRIPTIONS**

45 to 49%

≥ 50%

Very Thin Bedded

Lean to Fat

Fat

ROCK QUALITY DESIGNATION (RQD)**

| DESCRIPTION OF ROCK QUALITY | RQD (%) |
|-----------------------------|----------|
| Very Poor | 0 - 25 |
| Poor | 25 - 50 |
| Fair | 50 - 75 |
| Good | 75 - 90 |
| Excellent | 90 - 100 |

1001 - 2000

2001 - 4000

4001 - 8000

> 8001

**RQD is defined as the total length of sound core pieces, 4 inches (102mm) or greater in length, expressed as a percentage of the total length cored. RQD provides an indication of the integrity of the rock mass and relative extent of seams and bedding planes.

DEGREE OF WEATHERING

| Slightly Weathered | Slight decomposition of parent material in joints and seams. |
|--------------------|--|
| Weathered | Well-developed and decomposed joints and seams. |
| Highly Weathered | Rock highly decomposed, may be extremely broken. |

SOLUTION AND VOID CONDITIONS

| Solid | Contains no voids. |
|-----------|--|
| Vuggy | Containing small pits or cavities < 1/2" (13mm). |
| Porous | Containing numerous voids which may be interconnected. |
| Cavernous | Containing cavities, sometimes quite large. |

When classification of rock materials has been estimated from disturbed samples, core samples and petrographic analysis may reveal other rock types.

HARDNESS & DEGREE OF CEMENTATION

Hard

Very Stiff (Very Firm)

| LIMESTONE Hard Moderately Hard Soft | Difficult to scratch with knife. Can scratch with knife but not with fingern Can be scratched with fingernail. | ail. |
|---|--|----------------|
| SHALE Hard Moderately Hard Soft | Can scratch with knife but not with fingern Can be scratched with fingernail. Can be molded easily with fingers. | ail. |
| SANDSTONE Well Cemented Cemented Poorly Cemented | Capable of scratching a knife blade. Can be scratched with knife. Can be broken apart easily with fingers. | |
| BEDDING CHARACT | TERISTICS | |
| TERM | THICKNESS (inches) | THICKNESS (mm) |
| Very Thick Bedded | > 36 | > 915 |
| Thick Bedded | 12 - 36 | 305 - 915 |
| Medium Bedded | 4 - 12 | 102 - 305 |
| Thin Bedded | 1 - 4 | 25 - 102 |

Dense

Very Dense

15-30

>30

30 - 49

<u>≥</u> 50

| Laminated | |
|------------------|------------|
| Thinly Laminated | |
| Bedding Planes | Planes di |
| Joint | Fracture i |
| Seam | Applies to |

ividing the individual layers, beds or strata of rocks. in rock, generally more or less vertical or transverse to the bedding. o bedding plane with an unspecified degree of weathering.

0.4 - 1

< 0.1

0.1 - 0.4

10 - 25

2.5 - 10

< 2.5

| | F | 3(| | RF | | ור | F | Τ | Ο | G | | | BH-1 Sheet 1 OF 1 Date 2/28/2016 | | | | |
|--------------------------|----------------------|---------|------|---------|--------|---------|------------|----------------|----------------|---------|------------|----------------|---|--------------------|-------------------|------|--|
| Proje | | | | r | 27-0 | | | _ | | | | | Drilling Rig CME 45 | | | | |
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| Notes | | | | | | | | | | | | | Total Depth 15' | | | | |
| Notes | • | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | _ | |
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| MO | E | | | | | | ε | .8 m | .2 m | | | | VISUAL MATERIAL CLASSIFICATION AND REMARKS | (%) | ty (p | | |
| ם Bel | LION | nic | | ber | 0 | _ | .4 m | -304 | -457 | ne | | 0 | | ure | ensi | | |
| Depth Below Surface (ft) | Elevation (TT) | Graphic | Type | Number | Symbol | Depth | 0-152.4 mm | 152.4-304.8 mm | 304.8-457.2 mm | N-Value | N60 | (N1)60 | | Moisture (%) | Dry Density (pcf) | Test | |
| 0 | - | Ŭ | F | 4 | S | | 0 | 1 | ŝ | 2 | 4 |) | SILTY SAND (SM) | 2 | | | |
| 1 | | | | | | | | | | | | | medium brown silty sand | | | | |
| 2 | | | | | | | | | | | | | WELL-GRADED SAND w/SILT & GRAVEL (SW-SM) | | | | |
| 3 | | | R | | X | | 10 | 13 | 15 | 18 | | | grayish brown sand with silt and gravel, dry | 2 | 121 | | |
| 4 | | | | | | | | | | | | | 6" cobbles noted at the surface | | | | |
| 5 | | | | | | | | | | | | | medium dense | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | 30 | | | | | | | | | | | SANDY SILT (ML) | | | | |
| 9 | | 2 | | | _ | | | | | | | | brownish gray silt with fine grained sand | | | | |
| 10 | | -23 | S | | | | 2 | 2 | 3 | 5 | | | medium firm | 13 | | | |
| 11 | | -2 | | | | | | | | | | | % Passing No. 200 Sieve = 53 | | | | |
| 12 | | -22 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | Ш | |
| 14 | | | | | | | | | | | | | WELL-GRADED SAND w/GRAVEL (SW) | | | | |
| 15 | | | S | | | | 7 | 11 | 15 | 26 | | | medium dense, dry | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
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The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.

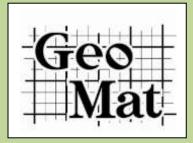
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|--|---|----------|------|--------|--------|--------|------------|----------------|----------------|---------|------------|--------|--|--------------------|-------------------|------|--|
| Projec | | | | | 27-0 | | | _ | | | | | Drilling Rig CME 45 | | | | |
| Projec | | | | | | ls Ma | asiid | | | | | | Sampler Cal Mod. And S | БРТ | РТ | | |
| Client | | | | | | kil Pa | | | | | | | | Method Hollow Stem | | | |
| Locati | | | | | | | | 5-00 | 000, | Redl | and | s, CA | | | | | |
| Coodi | | е | | | | | | | , | | | , | Surface Elev. | | | | |
| Notes | | | | | | | | | | | | | Total Depth 15' | | | | |
| | | | | | | | | | | | | | | | | | |
| | Type/Symbol Casing Split Spoon Bing Sampler Cutting | | | | | | | | | | | | | | | | |
| Type/Sy | a /Sumhal Casing Calit Succes Ding Samular Cutting | | | | | | | | | | | Dept | | | | | |
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| Hammer | r Wt. | | | | | | | | | | | | | | | | |
| Hamme | r Fall | | | | | | | | | | | | | | | | |
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| rface | | | | | | | | | | | | | | | | | |
| v Su | - | | | | | | | mm | mm | | | | VISUAL MATERIAL CLASSIFICATION AND REMARKS | - | (pcf) | | |
| 3elov | | 6 | | | | | mm | 04.8 | 57.2 | a | | | | re (% | nsity | | |
| Depth Below Surface (ft) Flavation (ft) | | Graphic | Type | Number | Symbol | Depth | 0-152.4 mm | 152.4-304.8 mm | 304.8-457.2 mm | N-Value | 0 | (N1)60 | | Moisture (%) | Dry Density (pcf) | it | |
| | í | <u>5</u> | Tyl | Nu | Syı | De | 0-1 | 15: | 30 | Z | N60 | N) | SILTY SAND (SM) | M | Du | Test | |
| 0 | -8 | | | | | | | | | | | | medium brown silty sand | | | | |
| 2 | | | | | | | | | | | | | WELL-GRADED SAND w/SILT & GRAVEL | | | | |
| 3 | | | | | | | | | | | | | grayish-brown sand with silt and gravel, dry | | | | |
| 4 | | | | | | | | | | | | | 6" cobbles noted at the surface | | | | |
| 5 | | | S | | | | 13 | 15 | 23 | 38 | | | dense, dry | 2 | | | |
| 6 | - 33 | | | | | | | | | | | | % Passing No. 200 Sieve = 10 | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | -8 | | _ | | | | | | | | | | | | | | |
| 10 | -8 | | R | | X | | 13 | 30 | 44 | 48 | | | dense, dry | 1 | 123 | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | -8 | | | | | | | | | | | | WELL-GRADED SAND w/GRAVEL | | | | |
| 13 14 | - | | | | | | | | | | | | gray-brown sand with gravel, dry | | | | |
| 14 | - | | S | | | | 15 | 29 | 33 | 62 | | | very dense | | | | |
| 16 | _ | | 5 | | | | 15 | 25 | 55 | 02 | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
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The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.

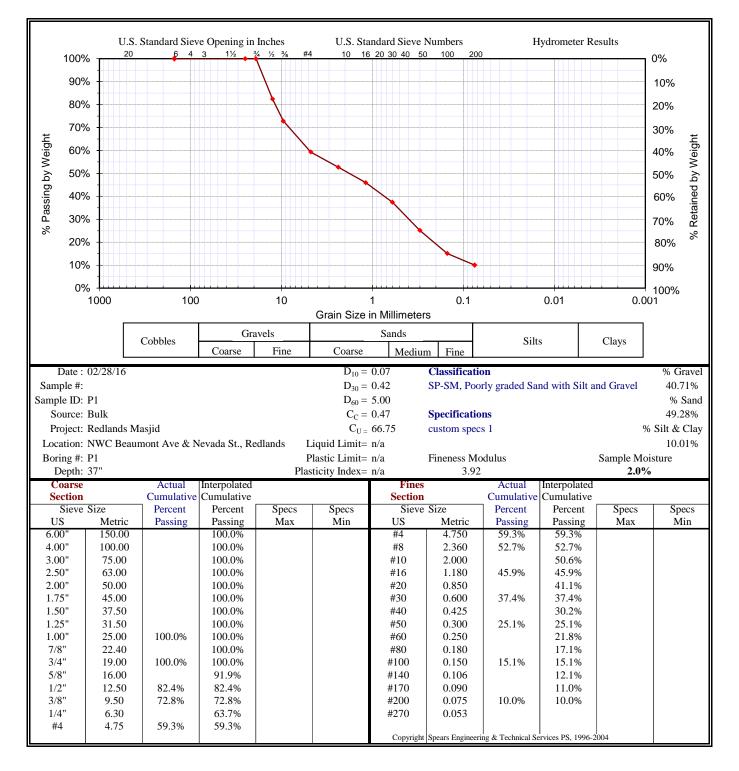
| | R | C |) F | S F | | | .E | | | G | | | BH-3 Sheet 1 OF 1 Date 2/28/2016 | | | | |
|--|----------|----------|-------|------------|--------|---------|------------|----------------|----------------|---------|-----|--------|---|-------------------|----|--|--|
| Project | | | - | 160 | | | | _ | | | | | Drilling Rig CME 45 | | - | | |
| Project | | | _ | | | | asjid | | | | | | Sampler Cal Mod. And SPT | | _ | | |
| Client | <u> </u> | | - | | | kil P | | | | | | | Method Hollow Stem | | - | | |
| Locatio | on | | - | | | | 11-1 | 5-00 | 000. | Redl | and | s. CA | | | | | |
| Coodin | | | | | | | | | , | | | -, - | Surface Elev. | | - | | |
| Notes | | | | | | | | | | | | | Total Depth 15' | | _ | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Type/Syn | nbol | | Cas | ing | Spl | lit Spo | oon | Ring | g Sam | pler | Cut | ting | Water Depth Casing Size Casing Dept | | | | |
| I.D | | | | | S | | | ŀ | ۲ | V | С | | | Symbo | bl | | |
| 0.0 |). | | | | | | | | | | | | 2/28/2016 None | | | | |
| Leng | th | | | | | | | | | | | | | | | | |
| Hammer | Wt. | | | | | | | | | | | | | | | | |
| Hammer | Fall | | | | | | | | | | | | | ļ | | | |
| | | | S | ioil Sa | ampl | e | - 1 | Blow | s | | | | | | _ | | |
| (ft) | | | | | | | | | | | | | | | | | |
| rface | | | | | | | | | | | | | | | | | |
| w Su t) | | | | | | | _ | mm | mm | | | | | (pcf | | | |
| Belo on (f | | | | L | _ | | nm t | 304.8 | 157.2 | е | | | ර ද ද | nsity | | | |
| Depth Below Surface (ft) Elevation (ft) | | alapilic | ı ype | Number | Symbol | Depth | 0-152.4 mm | 152.4-304.8 mm | 304.8-457.2 mm | N-Value | N60 | (N1)60 | VISOAL MATERIAL CLASSIFICATION AND REMARKS | Dry Density (pcf) | SL | | |
| | j t | | γ. | ž | Sy | De | 0 | 15 | 30 | Ż | ž | 2 | SILTY SAND (SM) | Dry | 2 | | |
| 1 | -8 | | | | | | | | | | | | medium brown silty sand | | | | |
| 2 | -8 | 8 | | | | | | | | | | | cobbles noted at the surface | | | | |
| 3 | -8 | | | | | | | | | | | | | | | | |
| 4 | -8 | | | | | | | | | | | | | | | | |
| 5 | | R | | | X | | 10 | 19 | 33 | 34 | | | dense 6 | 121 | | | |
| 6 | | | | | | | | | | | | | WELL-GRADED SAND w/SILT & GRAVEL | | - | | |
| 7 | | | | | | | | | | | | | grayish-brown sand with silt and gravel, dry | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | _ | | | | | | | | | | | | | | | | |
| 10 | _ | S | | | | | 13 | 17 | 18 | 35 | | | dense, dry | | | | |
| 11 | _ | | | | | | | | | | | | | | | | |
| 12 | | | _ | | | | | | | | | | | + | _ | | |
| 13 | | | | | | | | | | | | | WELL-GRADED SAND w/GRAVEL | | | | |
| 14 15 | - | s | | | | | 0 | 17 | 12 | 21 | | | gray-brown sand with gravel, dry medium dense, dry 2 | | | | |
| 16 | | | | | | | 9 | 12 | 12 | 24 | | | % Passing No. 200 Sieve = 4 | | | | |
| 17 | | | | | | | | | | | | | 1 435/16 140. 200 SICVC - 4 | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

The stratification lines represent the approximate boundary lines between soil and rock types. In-situ, the transition may be gradual.

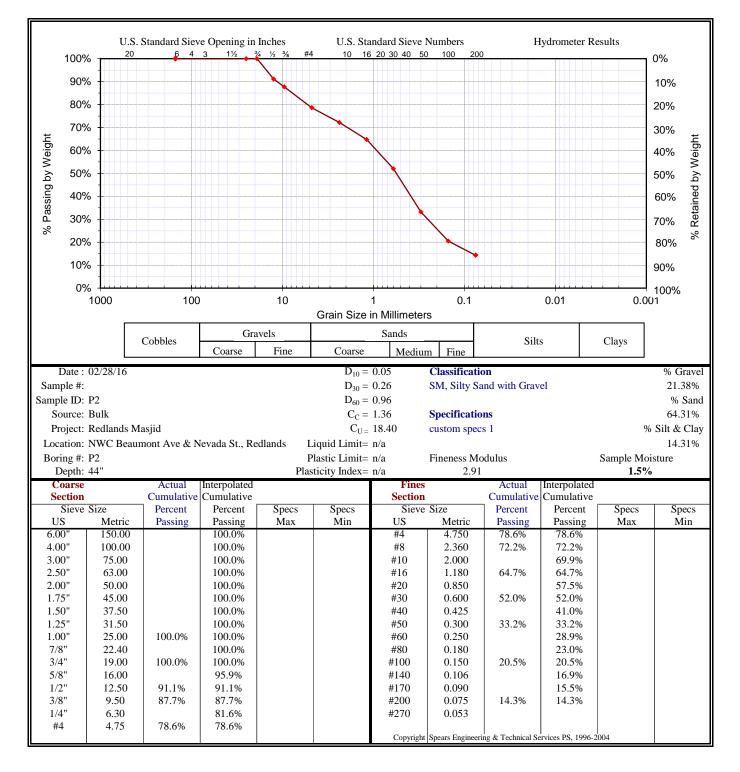
Appendix C



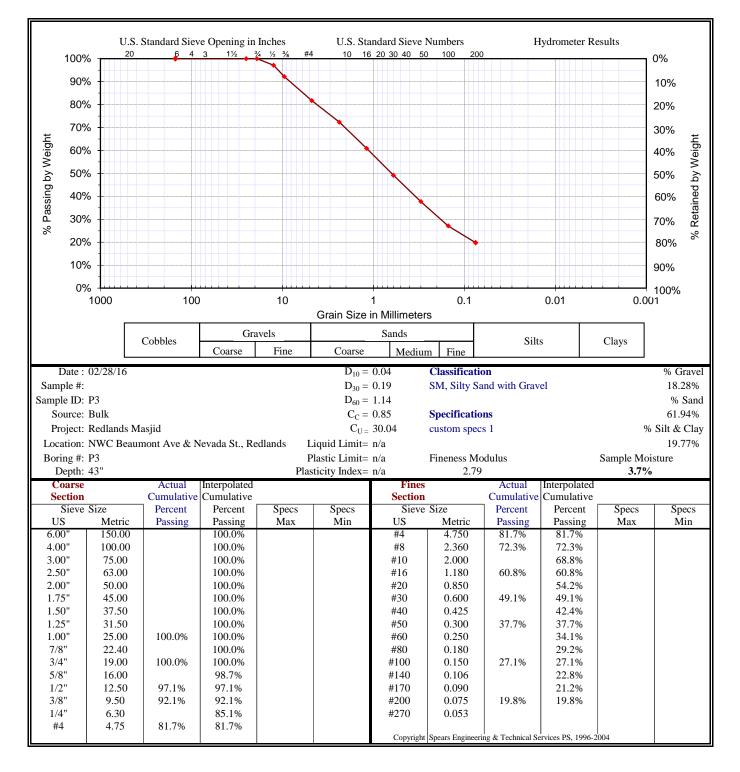




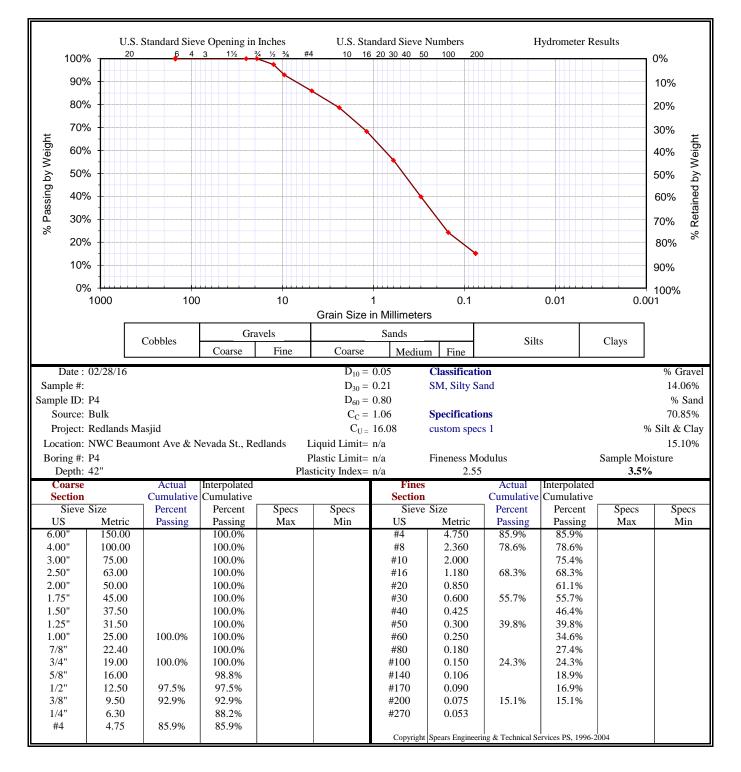




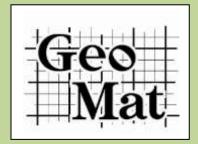








Appendix D



| nity Center | Job No.: | 16027-01 |
|-------------|----------------------|--|
| P-1 | Date Excavated: | 2/27/2016 |
| 37" | Soil Classification: | SM |
| MS | Presoak Date: | 3/18/2016 |
| MS | Test Date: | 3/18/2016 |
| | P-1 37" MS | P-1Date Excavated:37"Soil Classification:MSPresoak Date: |

Sandy Soil Criteria Test

Presoak: Fill test hole with 12 inches of water (10 iches above gravel). If the water completely seeps away in less than 10 minutes, in two consecutive readings, begin testing immediately. If not, maintain water level at 10 in above gravel for 4 hrs.

| Sandy Trial No. Time | | Time Interval | Initial Water | Final Water | Water Drop |
|----------------------|-------|----------------|----------------|-------------|------------|
| Sandy Trial No. Time | (Min) | Level (Inches) | Level (Inches) | (Inches) | |
| 1 | 0:00 | 0:10 | 10 | 4 | 6 |
| 1 | 0:10 | 0.10 | 10 | + | 0 |
| 2 | | | | | |
| 2 | | | | | |

Testing Trial: Fill test hole to 8 in. from bottom of hole (6 in. above gravel). If more than 5 in. of water is gone in 30 Min, take readings every 10 minutes for one hour minimum. If less than 1 in. drops in 30 min, take 30 min readings for at least 3 hrs.

| Test Trial | 0:00 0:10 | 0:10 | 6 | 0 | 6 |] |
|--------------|--------------|---------------------------------------|-------------------|------------------|---------------------|-------------|
| A | | als shall provide a | minimum of 1 incl | drop and not mor | re than a 3 inch di | op. |
| | Time | Total | Initial Water | Final Water | Water | Percolation |
| Time | Interval | Elapsed | Level | Level | Drop | Rate |
| | (Min) | Time (Min) | (Inches) | (Inches) | (Inches) | (Min/Inch) |
| 0:00 | 3 | 3 | 6 | 4 | 2 | 1.500 |
| 0:03 | 5 | 5 | 0 | - | 2 | 1.500 |
| 0:00 | 3 | 6 | 6 | 4.125 | 1.875 | 1.600 |
| 0:03 | | , , , , , , , , , , , , , , , , , , , | Ű | | 11070 | 1.000 |
| 0:00 | 3 | 9 | 6 | 4 | 2 | 1.500 |
| 0:03 | | | | | | |
| 0:00 0:03 | 3 | 12 | 6 | 4.125 | 1.875 | 1.600 |
| 0:00 | | | | | | |
| 0:03 | 3 | 15 | 6 | 4.125 | 1.875 | 1.600 |
| 0:00 | | | | | | |
| 0:03 | 3 | 18 | 6 | 4 | 2 | 1.500 |
| 0:00 | 2 | 21 | <i>.</i> | 4.105 | 1.075 | 1.000 |
| 0:03 | 3 | 21 | 6 | 4.125 | 1.875 | 1.600 |
| 0:00 | 2 | 24 | 6 | 4 | 2 | 1 500 |
| 0:03 | - 3 | 24 | 0 | 4 | Z | 1.500 |
| 0:00 | 3 | 27 | 6 | 4 | 2 | 1.500 |
| 0:03 | 5 | 21 | 0 | + | ۷. | 1.500 |
| 0:00 | 3 | 30 | 6 | 4.125 | 1.875 | 1.600 |
| 0:03 | - | | Ű | | 11070 | 1.000 |
| 0:00 | 3 | 33 | 6 | 4.125 | 1.875 | 1.600 |
| 0:03 | | | | | | |
| 0:00 0:03 | 3 | 36 | 6 | 4.125 | 1.875 | 1.600 |
| 0:00 | | | | | | |
| 0:03 | 3 | 39 | 6 | 4.125 | 1.875 | 1.600 |
| 0:00 | _ | | | | _ | |
| 0:03 | 3 | 42 | 6 | 4 | 2 | 1.500 |
| 0:00 | 2 | 45 | 6 | 4 105 | 1.075 | 1.000 |
| 0:03 | 3 | 45 | 6 | 4.125 | 1.875 | 1.600 |
| 0:00 | 3 | 48 | 6 | 4.125 | 1.875 | 1.600 |
| 0:03 | 5 | 40 | 0 | 4.125 | 1.075 | 1.000 |
| 0:00 | 3 | 51 | 6 | 4.125 | 1.875 | 1.600 |
| 0:03 | 5 | 51 | 0 | | 1.075 | 1.000 |
| 0:00 | 3 | 54 | 6 | 4.125 | 1.875 | 1.600 |
| 0:03 | - | | ~ | | | |
| 0:00 | 3 | 57 | 6 | 4.125 | 1.875 | 1.600 |
| 0:03 | | | | | | |
| 0:00 | 3 | 60 | 6 | 4.125 | 1.875 | 1.600 |
| 0:03 | | | | L | | |

P-1

| P | - | 2 | |
|---|---|---|--|
| | | | |

| Center | Job No.: | 16027-01 |
|--------|----------------------|--|
| P-2 | Date Excavated: | 2/27/2016 |
| 44" | Soil Classification: | SM |
| MS | Presoak Date: | 3/18/2016 |
| MS | Test Date: | 3/18/2016 |
| • | P-2 44" MS | P-2Date Excavated:44"Soil Classification:MSPresoak Date: |

Sandy Soil Criteria Test

Presoak: Fill test hole with 12 inches of water (10 iches above gravel). If the water completely seeps away in less than 10 minutes, in two consecutive readings, begin testing immediately. If not, maintain water level at 10 in above gravel for 4 hrs.

| Sandy Trial No. | Sandy Trial No. Time | | Initial Water | Final Water | Water Drop |
|------------------|----------------------|-------|----------------|----------------|------------|
| Salidy IIIai No. | Sandy Trial No. Time | (Min) | Level (Inches) | Level (Inches) | (Inches) |
| 1 | 0:00 | 0:10 | 10 | 3.25 | 6.75 |
| 1 0:1 | 0:10 | 0.10 | 10 | 5.25 | 0.75 |
| 2 | | | | | |
| 2 | | | | | |

Testing Trial: Fill test hole to 8 in. from bottom of hole (6 in. above gravel). If more than 5 in. of water is gone in 30 Min, take readings every 10 minutes for one hour minimum. If less than 1 in. drops in 30 min, take 30 min readings for at least 3 hrs.

| Test Trial | 0:00 0:09 | 0:09 | 6 | 0 | 6 |] |
|--------------|--------------|---------------------|-------------------|------------------|--------------------|-------------|
| All | | als shall provide a | minimum of 1 inch | drop and not mor | e than a 3 inch dı | |
| | Time | Total | Initial Water | Final Water | Water | Percolation |
| Time | Interval | Elapsed | Level | Level | Drop | Rate |
| | (Min) | Time (Min) | (Inches) | (Inches) | (Inches) | (Min/Inch) |
| 0:00 | 3 | 3 | 6 | 3.75 | 2.25 | 1.333 |
| 0:03 | 5 | 5 | ÷ | 5.75 | 2.20 | 1.555 |
| 0:00 | 3 | 6 | 6 | 3.75 | 2.25 | 1.333 |
| 0:03 | - | - | - | | | |
| 0:00 0:03 | 3 | 9 | 6 | 3.75 | 2.25 | 1.333 |
| 0:03 | | | | | | |
| 0:03 | 3 | 12 | 6 | 4 | 2 | 1.500 |
| 0:00 | | | | | | |
| 0:03 | 3 | 15 | 6 | 4 | 2 | 1.500 |
| 0:00 | 2 | 10 | _ | 0.55 | | 1 2 2 2 |
| 0:03 | 3 | 18 | 6 | 3.75 | 2.25 | 1.333 |
| 0:00 | 3 | 21 | 6 | 4 | 2 | 1.500 |
| 0:03 | 5 | 21 | 0 | 4 | 2 | 1.300 |
| 0:00 | 3 | 24 | 6 | 3.75 | 2.25 | 1.333 |
| 0:03 | 5 | 24 | 0 | 5.75 | 2.23 | 1.555 |
| 0:00 | 3 | 27 | 6 | 4 | 2 | 1.500 |
| 0:03 | 3 | 27 | Ű | • | 2 | 1.500 |
| 0:00 | 3 | 30 | 6 | 4 | 2 | 1.500 |
| 0:03 | | | | | | |
| 0:00 | 3 | 33 | 6 | 4 | 2 | 1.500 |
| 0:03 0:00 | | | | | | |
| 0:00 | 3 | 36 | 6 | 4 | 2 | 1.500 |
| 0:00 | | | | | | |
| 0:03 | 3 | 39 | 6 | 3.75 | 2.25 | 1.333 |
| 0:00 | | | _ | | | 1 700 |
| 0:03 | 3 | 42 | 6 | 4 | 2 | 1.500 |
| 0:00 | 2 | 45 | ć | 4 | 2 | 1 500 |
| 0:03 | 3 | 45 | 6 | 4 | 2 | 1.500 |
| 0:00 | 3 | 48 | 6 | 4 | 2 | 1.500 |
| 0:03 | 5 | 40 | 0 | 4 | 2 | 1.500 |
| 0:00 | 3 | 51 | 6 | 4 | 2 | 1.500 |
| 0:03 | 5 | 51 | 0 | - | 2 | 1.500 |
| 0:00 | 3 | 54 | 6 | 4 | 2 | 1.500 |
| 0:03 | - | · · · | ~ | | | |
| 0:00 | 3 | 57 | 6 | 4 | 2 | 1.500 |
| 0:03 | | | | | | |
| 0:00 | 3 | 60 | 6 | 4 | 2 | 1.500 |
| 0:03 | - | | - | | | |

P-3

| Project: Redlands Islamic Commun | ity Center | Job No.: | 16027-01 |
|--|------------|----------------------|-----------|
| Test Hole No.: | P-3 | Date Excavated: | 2/27/2016 |
| Depth of Test Hole: | 43" | Soil Classification: | SM |
| Check for Sandy Soil Criteria Tested by: | MS | Presoak Date: | 3/18/2016 |
| Actual Percolation Tested by: | MS | Test Date: | 3/18/2016 |
| | | Test Date: | |

Sandy Soil Criteria Test

Presoak: Fill test hole with 12 inches of water (10 iches above gravel). If the water completely seeps away in less than 10 minutes, in two consecutive readings, begin testing immediately. If not, maintain water level at 10 in above gravel for 4 hrs.

| Sandy Trial No. | Time | Time Interval | Initial Water | Final Water | Water Drop |
|-----------------------|------|---------------|----------------|----------------|------------|
| Sandy I fiai No. 11me | | (Min) | Level (Inches) | Level (Inches) | (Inches) |
| 1 | 0:00 | 0:10 | 10 | 4.5 | 5.5 |
| 1 | 0:10 | 0.10 | 10 | 4.5 | 5.5 |
| 2 | | | | | |
| 2 | | | | | |

Testing Trial: Fill test hole to 8 in. from bottom of hole (6 in. above gravel). If more than 5 in. of water is gone in 30 Min, take readings every 10 minutes for one hour minimum. If less than 1 in. drops in 30 min, take 30 min readings for at least 3 hrs.

| Test Trial | 0:00 0:11 | 0:11 | 6 | 0 | 6 |] | |
|--------------|--------------|---------------------|-------------------|------------------|-------------------------------------|-------------|--|
| All | | als shall provide a | minimum of 1 inch | drop and not mor | op and not more than a 3 inch drop. | | |
| | Time | Total | Initial Water | Final Water | Water | Percolation | |
| Time | Interval | Elapsed | Level | Level | Drop | Rate | |
| | (Min) | Time (Min) | (Inches) | (Inches) | (Inches) | (Min/Inch) | |
| 0:00 | 3 | 3 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:03 | 5 | 5 | 0 | 4.373 | 1.025 | 1.040 | |
| 0:00 | 3 | 6 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:03 | 5 | 0 | 0 | 4.373 | 1.025 | 1.040 | |
| 0:00 | 3 | 9 | 6 | 4.25 | 1.75 | 1.714 | |
| 0:03 | 5 | · · | 0 | 1.20 | 1.75 | 1., 11 | |
| 0:00 | 3 | 12 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:03 | U | | Ű | | 1.020 | 110.10 | |
| 0:00 | 3 | 15 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:03 | - | - | - | | | | |
| 0:00 | 3 | 18 | 6 | 4.25 | 1.75 | 1.714 | |
| 0:03 | | | | | | | |
| 0:00 | 3 | 21 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:03 | | | | | | | |
| 0:00 | 3 | 24 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:03 | | | | | | | |
| 0:00 0:03 | 3 | 27 | 6 | 4.25 | 1.75 | 1.714 | |
| 0:00 | | | | | | | |
| 0:03 | 3 | 30 | 6 | 4.25 | 1.75 | 1.714 | |
| 0:00 | | | | | | | |
| 0:03 | 3 | 33 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:00 | | | | | | | |
| 0:03 | 3 | 36 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:00 | | | | | | | |
| 0:03 | 3 | 39 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:00 | _ | | | | | | |
| 0:03 | 3 | 42 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:00 | 2 | | | 1.25 | 1 5 5 | 1 51 1 | |
| 0:03 | 3 | 45 | 6 | 4.25 | 1.75 | 1.714 | |
| 0:00 | 2 | 40 | 6 | 4.275 | 1.005 | 1.0.46 | |
| 0:03 | 3 | 48 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:00 | 2 | 51 | C | 1 275 | 1.025 | 1.946 | |
| 0:03 | 3 | 51 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:00 | 3 | 54 | 6 | 4.375 | 1 625 | 1.846 | |
| 0:03 | 3 | 34 | 0 | 4.373 | 1.625 | 1.840 | |
| 0:00 | 3 | 57 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:03 | 3 | 57 | 0 | 4.373 | 1.025 | 1.040 | |
| 0:00 | 3 | 60 | 6 | 4.375 | 1.625 | 1.846 | |
| 0:03 | 3 | | 0 | 4.373 | 1.023 | 1.040 | |

| P-4 |
|-----|
|-----|

| Project: Redlands Islamic Comm | unity Center | Job No.: | 16027-01 |
|--|--------------|----------------------|-----------|
| Test Hole No.: | P-4 | Date Excavated: | 2/27/2016 |
| Depth of Test Hole: | 42" | Soil Classification: | SM |
| Check for Sandy Soil Criteria Tested by: | MS | Presoak Date: | 3/18/2016 |
| Actual Percolation Tested by: | MS | Test Date: | 3/18/2016 |

Sandy Soil Criteria Test

Presoak: Fill test hole with 12 inches of water (10 iches above gravel). If the water completely seeps away in less than 10 minutes, in two consecutive readings, begin testing immediately. If not, maintain water level at 10 in above gravel for 4 hrs.

| Sandy Trial No. | Sandy Trial No. Time | | Initial Water | Final Water | Water Drop |
|------------------|----------------------|------|----------------|----------------|------------|
| Salidy Illai NO. | | | Level (Inches) | Level (Inches) | (Inches) |
| 1 | 0:00 | 0:10 | 10 | 3.75 | 6.25 |
| 1 | 0:10 | 0.10 | 10 | 5.15 | 0.23 |
| 2 | | | | | |
| 2 | | | | | |

Testing Trial: Fill test hole to 8 in. from bottom of hole (6 in. above gravel). If more than 5 in. of water is gone in 30 Min, take readings every 10 minutes for one hour minimum. If less than 1 in. drops in 30 min, take 30 min readings for at least 3 hrs.

| 0:00 | 0:10 | 6 | 0 | 6 | |
|----------|---|--|---|---|--|
| | lls shall provide a 1 | ninimum of 1 inch | drop and not mor | e than a 3 inch dr | ор. |
| Time | Total | Initial Water | Final Water | Water | Percolation |
| Interval | Elapsed | Level | Level | Drop | Rate |
| (Min) | Time (Min) | (Inches) | (Inches) | (Inches) | (Min/Inch) |
| 3 | 3 | 6 | | | 1.500 |
| 5 | 5 | 0 | 4 | 2 | 1.500 |
| 2 | 6 | 6 | 4 125 | 1 975 | 1.600 |
| 5 | 0 | 0 | 4.123 | 1.075 | 1.000 |
| 3 | 9 | 6 | 4 | 2 | 1.500 |
| 5 | , | 0 | - | ~ | 1.500 |
| 3 | 12 | 6 | 4 125 | 1 875 | 1.600 |
| 5 | 12 | Ŭ | | 1.075 | 1.000 |
| 3 | 15 | 6 | 4 | 2 | 1.500 |
| 5 | 10 | Ŭ | | - | 1.500 |
| 3 | 18 | 6 | 4.125 | 1.875 | 1.600 |
| U | 10 | Ű | | 1.070 | 1.000 |
| 3 | 21 | 6 | 4.125 | 1.875 | 1.600 |
| č | | Ű | | 1.070 | 1.000 |
| 3 | 24 | 6 | 4 | 2 | 1.500 |
| | | - | | | |
| 3 | 27 | 6 | 4.125 | 1.875 | 1.600 |
| | | | | | |
| 3 | 30 | 6 | 4.125 | 1.875 | 1.600 |
| | | | | | |
| 3 | 33 | 6 | 4 | 2 | 1.500 |
| | | | | | |
| 3 | 36 | 6 | 4 | 2 | 1.500 |
| | | | | | |
| 3 | 39 | 6 | 4.125 | 1.875 | 1.600 |
| | | | | | |
| 3 | 42 | 6 | 4.125 | 1.875 | 1.600 |
| | | | | | |
| 3 | 45 | 6 | 4 | 2 | 1.500 |
| | | | | | |
| 3 | 48 | 6 | 4.125 | 1.875 | 1.600 |
| | | | | | |
| 3 | 51 | 6 | 4.125 | 1.875 | 1.600 |
| | | | | | |
| 3 | 54 | 6 | 4.125 | 1.875 | 1.600 |
| | | | | | <u> </u> |
| 3 | 57 | 6 | 4.125 | 1.875 | 1.600 |
| | | | | | + |
| 3 | 60 | 6 | 4.125 | 1.875 | 1.600 |
| | 0:10 Interval Time Interval (Min) 3 | 0:10 0:10 Time Total Interval Elapsed (Min) Time (Min) 3 3 3 6 3 9 3 12 3 15 3 15 3 21 3 24 3 27 3 30 3 36 3 37 3 34 3 24 3 37 3 36 3 36 3 36 3 36 3 36 3 36 3 36 3 36 3 36 3 42 3 48 3 51 3 54 3 57 | 0:10 6 Ifinal time intervals shall provide a minimum of 1 inch 1 initial Water Interval Elapsed Level (Min) Time (Min) (Inches) 3 3 6 3 6 6 3 6 6 3 6 6 3 6 6 3 12 6 3 15 6 3 15 6 3 21 6 3 27 6 3 30 6 3 36 6 3 27 6 3 30 6 3 33 6 3 36 6 3 36 6 3 36 6 3 42 6 3 45 6 3 51 6 3 54 <t< td=""><td>0:10 6 0 final time intervals shall provide a minimum of 1 incl trop and not more Trime Total Initial Water Final Water Initial Wine Final Water Level Level Level (Min) Time (Min) (Inches) (Inches) (Inches) 3 3 6 4 4 3 6 6 4.125 3 9 6 4 3 12 6 4.125 3 15 6 4 3 21 6 4.125 3 21 6 4.125 3 27 6 4.125 3 30 6 4 3 36 6 4 3 37 6 4.125 3 30 6 4 1 3 36 6 4 1 3 30 6 4 125 3</td><td>0:10 0:10 6 0 0 0 Inititime intervals shall provide a minimum of 1 inch drop and not more than a 3 inch dr 1nitial Water Final Water Water Drop Interval Elapsed Level Level Drop (Min) Time (Min) (Inches) (Inches) (Inches) 3 3 6 4 2 3 6 6 4.125 1.875 3 9 6 4 2 3 12 6 4.125 1.875 3 15 6 4 2 3 12 6 4.125 1.875 3 15 6 4 2 3 16 4 1.875 1.875 3 21 6 4.125 1.875 3 30 6 4 2 3 33 6 4 2 3 30 6 4.125</td></t<> | 0:10 6 0 final time intervals shall provide a minimum of 1 incl trop and not more Trime Total Initial Water Final Water Initial Wine Final Water Level Level Level (Min) Time (Min) (Inches) (Inches) (Inches) 3 3 6 4 4 3 6 6 4.125 3 9 6 4 3 12 6 4.125 3 15 6 4 3 21 6 4.125 3 21 6 4.125 3 27 6 4.125 3 30 6 4 3 36 6 4 3 37 6 4.125 3 30 6 4 1 3 36 6 4 1 3 30 6 4 125 3 | 0:10 0:10 6 0 0 0 Inititime intervals shall provide a minimum of 1 inch drop and not more than a 3 inch dr 1nitial Water Final Water Water Drop Interval Elapsed Level Level Drop (Min) Time (Min) (Inches) (Inches) (Inches) 3 3 6 4 2 3 6 6 4.125 1.875 3 9 6 4 2 3 12 6 4.125 1.875 3 15 6 4 2 3 12 6 4.125 1.875 3 15 6 4 2 3 16 4 1.875 1.875 3 21 6 4.125 1.875 3 30 6 4 2 3 33 6 4 2 3 30 6 4.125 |