Borehole ID: BH-33

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| Client | t: Geo | o-Institute | Proie | ect N | lame: | Ven | dor DIGGS | Challe | nge | | | | | |
|--------------|--|--|----------------|-------------|---------------|------------|-----------------------------|----------------------|-----------------------|--------------|------------|--------------------------------------|--------------------------------|---|
| | ct Nur | | | | | | iewhere Ov | | | bow | | | | |
| | | d: Jun 04 2015 Completed: Jun 04 2015 | | | By: Sc | | | _ | cked | | | | | |
| Drillin | ng Con | tractor: Big Dog Drillers | Nort | hing | : 1402 | 115.1 | Easting: | 22 | 72085 | 5.8 E | levati | on: 3 | 318.00 |) |
| Drillin | ng Me | thod: 4.25" Hollow stem auger, NQ | Grou | nd \ | Water L | evels. | | | | | | | | |
| Equip | ment | CME 550, Arco 9000 | | 4t ti | me of d | rilling | 19.00 on | | | | | | | |
| | ner Ty | | | | d of dri | _ | 13.00 on | | | | | | | |
| Notes | : No | tes go here | | At | fter drill | ling | 15.00 on | Jun 05 | 5 2015 | 5 | | | | |
| Depth (ft) | Graphic | Material Description | Elevation (ft) | Sample Type | Number | Recovery % | Blow Counts (N Value) | Pocket Pen. (tsf) | Dry Unit Wt. (pcf) | 2 | 0 40 | MC (% _ & LL () 6(s Conte |) 80 (%) (%) (ent (%) |) |
| | | Asphalt | _ | | | | | | | 2 | 0 40 |) 60 | 0 80 | |
| 1 | 00000000000000000000000000000000000000 | POORLY GRADED GRAVEL WITH CLAY AND SAND, COBBLES AND BOULDERS (GP-GC); mostly fine to medium very hard subrounded flat GRAVEL; some fine hard well rounded elongated sand; few low plasticity fines; about 7% cobbles by vol., angular, hard, elongated; about 5% boulders by vol., subangular, very hard, flat; dark brownish black and light grayish brown, moist to wet, medium dense, stratified, trace ferrous nodules, trace construction debris, trace manganese, no odor, moderate cementation, iron oxide staining, max size = 3 in., Something else goes here, FILL Unit A LEAN CLAY (CL); mostly low plasticity FINES no dilatancy; dark brown, moist, medium stiff to stiff, varved, FILL | 313.0 - | T | 1 | 100 | 4.2.4 | 0.25 | 100 | | • | | | |
| 9- | | Unit A | 308.0 - | X | 2 3A | 93 | 1-2-1 (3) 2-4-6 | 2.25 | | A | • | | | |
| 12 – | | POORLY GRADED SAND (SP); mostly rounded SAND; light brown, moist, loose to medium dense, trace silt, hydrocarbon odor, ALLUVIUM Unit A | - | A V | 3B | | (10) | | | | | | | |
| 14 — 15 — | | ∞ | 303.0 - | | 4 | 87 | 3-6-9 (15) | | | | | | | |
| 16 — | | LEAN CLAY (CL); mostly medium plasticity FINES; dark brown, moist to wet, very stiff to very hard, iron oxide staining, ALLUVIUM Unit A | - - - | | 5 | 67 | 5-10-15 (25) | 3.50 | | | A • | | | |
| | | | | | | | | | | | | | | |

Borehole ID: BH-33

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Client: Geo-Institute Project Name: Vendor DIGGS Challenge Project Number: 20250110 - DIGGS Challenge **Project Location:** Somewhere Over the Rainbow **Date Started:** Jun 04 2015 Completed: Jun 04 2015 **Logged By:** Scott Deaton **Checked By:** 2272085.8 **Elevation:** 318.00 **Drilling Contractor:** Big Dog Drillers **Northing:** 1402115.1 **Easting: Drilling Method:** 4.25" Hollow stem auger, NQ **Ground Water Levels Equipment:** CME 550, Arco 9000 \triangle At time of drilling 19.00 on Jun 04 2015 Hammer Type: End of drilling 13.00 on Jun 04 2015 Automatic **Notes:** Notes go here After drilling 15.00 on Jun 05 2015

| E3. <u>110</u> | tes go here | | A1 | fter drill | ing | 15.00 on | Jun O: | 2012 | |
|----------------|---|----------------|-------------|------------|------------|---|----------------------|-----------------------|--------------------------|
| Graphic | Material Description | Elevation (ft) | Sample Type | Number | Recovery % | Blow Counts (N Value) | Pocket Pen. (tsf) | Dry Unit Wt. (pcf) | ▲ SPT N Value 20 40 60 8 |
| | LEAN CLAY (CL); mostly medium plasticity FINES; dark brown, moist to wet, very stiff to very hard, iron oxide staining, ALLUVIUM Unit A becoming gray | | Å | 6 | 60 | 1-0-0 (WOH) | | | 20 40 00 0 |
| | | | | 7 | 100 | | 2.50 | - | |
| | FAT CLAY (CH); mostly high plasticity FINES; few fine sand; dark red, very dense, ALLUVIUM Unit B | - 293.0 - | X | 8A 8B | 83 | 9-12-50/2 " (50/2") | 1.50 | _ | |
| | | | X | 9 10 | 71 100 | 15-50/2" (50/2") 50/1" (50/1") | 4.50 4.50 | - | 10-1 |
| | CALCAREOUS LIMESTONE AND SANDSTONE, moderately weathered to highly weathered, dark brownish gray and light olive green, very fine grained to medium grained sand, strong to very strong, medium, 0° to 15° bedding angle, wet | 288.0 | | R-1A | 100 | | | - | |
| | becoming vuggy LIMESTONE, freshly weathered, dark gray, wet, Comments go here | | | R-1B | | | | - | |
| | | 283.0 | | | | | | | |

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Dataforensics

Vendor DIGGS Challenge Client: Geo-Institute Project Name: Project Number: 20250110 - DIGGS Challenge **Project Location:** Somewhere Over the Rainbow **Date Started:** Jun 04 2015 Completed: Jun 04 2015 **Logged By:** Scott Deaton **Checked By:** 2272085.8 **Elevation:** 318.00 **Drilling Contractor:** Big Dog Drillers **Northing:** 1402115.1 **Easting: Drilling Method:** 4.25" Hollow stem auger, NQ **Ground Water Levels Equipment:** CME 550, Arco 9000 ✓ At time of drilling 19.00 on Jun 04 2015 T Hammer Type: Automatic End of drilling 13.00 on Jun 04 2015 **Notes:** Notes go here After drilling 15.00 on Jun 05 2015

| | | | | او | | <u>。</u> | | نہ | نو | ▲ SPT N Value | | | |
|--|---------|---|-------------------|-------------|--------|------------|-----------------------------|---------------------|-----------------------|---------------|--|---|----------------------|
| (1) | Graphic | Material Description | Elevation (ft) | Sample Type | Number | Recovery % | Blow Counts (N Value) | Pocket Pen (tsf) | Dry Unit Wt. (pcf) | 20 F 20 | 40 ● MC (⊢PL & L 40 Fines Cor | 60 8 (%) L (%) 60 8 ntent (%) | 80 80 6) 80 |
| 7-1 | | LIMESTONE, freshly weathered, dark gray, wet, Comments go here | | | R-2 | 80 | | | | 20 | 40 | | |
| | | | | | | | | | | | | | † - |
|) | | Boring terminated at 40.0 feet. | 278.0 – - - | | | | | | | | | | <u> </u> |
| | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | 1 |
| بالبينيانينيانينيا | | | 273.0 - | | | | | | | | | | † |
| | | | - | | | | | | | | | | 1 |
| | | | - | | | | | | | | | | 1 |
| Limitari | | | 268.0 | | | | | | | | | | 1 |
| hhh. | | | _ | | | | | | | | | | 1 |
| 1 | | | _ | | | | | | | | | | |