



GEOLABS, INC.

Geotechnical Engineering

WAIMEA CANYON DRIVE /
KOKEE ROAD IMPROVEMENTS, PHASE 2
WAIMEA, KAUAI, HAWAII

Log of
Boring

1

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet) : 1733.5 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	21	81			37					SM	3-inch ASPHALTIC CONCRETE
										MH	Reddish brown SILTY SAND with some gravel (basaltic), dense, dry (fill)
	24				33						Reddish brown CLAYEY SILT , very stiff, dry (residual soil)
											grades to hard
	26	91			89	4.5				CH	Brown SILTY CLAY , hard, dry (residual soil)
							5				Boring terminated at 5 feet
											* Elevations estimated from Grading Plans transmitted by Wilson Okamoto Corporation on September 13, 2021.
							10				
							15				

Date Started: August 27, 2021

Date Completed: August 27, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 6" Hollow-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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2

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 1774 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
LL=43 PI=19	22	90			33	4.5					5-inch ASPHALTIC CONCRETE
										GP- GM CL	Gray SANDY GRAVEL (BASALTIC) with a little silt, dense, dry (fill)
	31				10						Brown SANDY CLAY , very stiff, dry (residual soil) grades to stiff
	30	88			50	4.5					grades to very stiff
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 27, 2021

Date Completed: August 27, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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3

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 1848 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	27	94			35						3-inch ASPHALTIC CONCRETE
	28				12						Gray SANDY GRAVEL (BASALTIC) with a little silt, dense, dry (fill)
					50/1"						Reddish brown CLAYEY SILT with traces of sand, very stiff, dry (residual soil) grades to stiff
											Gray BOULDERS (BASALTIC) , very dense (residual soil) Boring terminated at 4 feet
							5				
							10				
							15				

Date Started: August 27, 2021

Date Completed: August 27, 2021

Logged By: D. Gremminger

Total Depth: 4 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 6" Hollow-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 1850 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
LL=82 PI=46	33	79			18	4.5					8-inch ASPHALTIC CONCRETE
	35				6					GP GM CH	Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill)
	34	70			10	1.5					Reddish brown SILTY CLAY with a little sand and gravel, stiff to medium stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 27, 2021

Date Completed: August 27, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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5

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 2793 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	30	75			20	4.5					6-inch ASPHALTIC CONCRETE
	27				3						Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill)
	31	62			4	0.5					Reddish brown CLAYEY SILT with traces of sand, stiff, dry (residual soil) grades to soft
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 6" Hollow-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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6

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet) : 2926.5 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	48	71			22	4.0				GP	3-inch ASPHALTIC CONCRETE
	39				28					MH	Gray SANDY GRAVEL (BASALTIC) , medium dense, dry (fill)
	48	62			60	4.5					Orangish brown CLAYEY SILT with traces of sand, stiff, moist (residual soil)
											grades to very stiff
											grades to hard
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 2948 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
LL=74 PI=36	42	70			20	4.5					4-inch ASPHALTIC CONCRETE
	47				10					GP- GM MH	Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill) Orangish brown CLAYEY SILT , stiff, moist (residual soil)
	47	60			12	2.5				MH	Grayish brown CLAYEY SILT , stiff to medium stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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8

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet) : 2963.5 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
Direct Shear	43	70			17	4.5				GP- GM MH	3-inch ASPHALTIC CONCRETE Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill) Reddish brown CLAYEY SILT , stiff, moist (residual soil)
	52										
	35	88			19	3.5					grades to purplish brown
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 6" Hollow-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet) : 3070.5 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
LL=74 PI=36	30	96			38	4.5					4-inch ASPHALTIC CONCRETE
	37				19					GP- GM MH	Gray SANDY GRAVEL (BASALTIC) with a little silt, dense, dry (fill) Brown CLAYEY SILT , very stiff, moist (residual soil)
Direct Shear	31	85			18	4.5				MH	Orangish brown with grayish mottling CLAYEY SILT with a little sand, stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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Boring

10

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3171 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	62	55			22	4.5				GP- GM MH	3-inch ASPHALTIC CONCRETE Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill) Brown to orangish brown CLAYEY SILT , stiff, moist (residual soil) grades to very stiff
	41				16						
	42	74			33	4.0					
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3234 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
LL=71 PI=39	37	71			32	4.5					4-inch ASPHALTIC CONCRETE
	34				15						Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill)
	35	78			34	4.5					Brown SILTY CLAY , very stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 6" Hollow-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3335 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	44	75			29	4.5					4-inch ASPHALTIC CONCRETE
	41				20						Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill)
	41	73			42	4.0					Reddish brown CLAYEY SILT with traces of sand, very stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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13

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3431 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
LL=72 PI=44	31	85			26	4.0					4-inch ASPHALTIC CONCRETE
	38				16						Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill)
	37	89			30	4.5					Brown SILTY CLAY with some gravel, stiff, moist (residual soil) grades to very stiff
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 26, 2021

Date Completed: August 26, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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14

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3487 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	46	63			15	2.0					4-inch ASPHALTIC CONCRETE
	60				11						Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill)
	58	63			19	3.0					Orangish brown SILTY CLAY , medium stiff to stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 25, 2021

Date Completed: August 25, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 6" Hollow-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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WAIMEA, KAUAI, HAWAII

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15

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3472 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
Sieve - #200 = 66.6%	31	55			9	0.5					5-inch ASPHALTIC CONCRETE
										GP GM ML	Gray SANDY GRAVEL (BASALTIC) with a little silt, loose, dry (fill)
	43				2						Brown SANDY SILT with traces of gravel, medium stiff, dry (residual soil) grades to soft
	33	64			14	2.0					grades to medium stiff
							5			ML/MH	Orangish brown CLAYEY SILT with a little decomposed gravel, medium stiff, dry (residual soil) Boring terminated at 5 feet
							10				
							15				

Date Started: August 25, 2021

Date Completed: August 25, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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16

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3462 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
Sieve - #200 = 36.1%	45	64			19	4.5				GP- GM GM	3-inch ASPHALTIC CONCRETE Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill) Brown SILTY GRAVEL (BASALTIC) with some sand, medium dense, dry (saprolite)
	42				9					MH	Brown CLAYEY SILT with some gravel, stiff, moist (residual soil)
	49	66			13	4.0				MH	Purplish brown CLAYEY SILT with a little sand, medium stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 25, 2021

Date Completed: August 25, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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17

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3483 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	43	71			20	4.5				GP- GM MH	3-inch ASPHALTIC CONCRETE Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill) Orangish brown with multi-color mottling CLAYEY SILT with a little sand and traces of decomposed gravel, stiff, moist (residual soil) grades to medium stiff
	44				6						
	32	75			11	2.5					
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 25, 2021

Date Completed: August 25, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: N/A

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3469 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
LL=78 PI=43	36	77			21	4.5					4-inch ASPHALTIC CONCRETE
	42				17					GP CH	Gray SANDY GRAVEL (BASALTIC) , medium dense, dry (fill)
	34	74			34	4.5					Brown SILTY CLAY , very stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 25, 2021

Date Completed: August 25, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

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Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3393 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	40	63			28	4.5					3-inch ASPHALTIC CONCRETE
	47				21						Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill)
	46	71			33	4.5					Brown SILTY CLAY , very stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 25, 2021

Date Completed: August 25, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

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Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3480 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
LL=78 PI=42	40	68			13	4.5				GP- GM MH	3-inch ASPHALTIC CONCRETE Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill) Orangish brown CLAYEY SILT with traces of sand, medium stiff, moist (residual soil)
	38				2						grades to soft
	34	77			16	3.5					grades to dark brown, stiff
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 25, 2021

Date Completed: August 25, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 4" Solid-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

A - 20



GEOLABS, INC.

Geotechnical Engineering

WAIMEA CANYON DRIVE /
KOEKE ROAD IMPROVEMENTS, PHASE 2
WAIMEA, KAUAI, HAWAII

Log of
Boring

21

Laboratory			Field				Depth (feet)	Sample	Graphic	USCS	Approximate Ground Surface Elevation (feet): 3605 *
Other Tests	Moisture Content (%)	Dry Density (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)					Description
	47	70			22	4.5					4-inch ASPHALTIC CONCRETE
	50				9					GP- GM	Gray SANDY GRAVEL (BASALTIC) with a little silt, medium dense, dry (fill)
	36	80			22	4.5				MH	Grayish brown to orangish brown CLAYEY SILT with traces of sand, stiff, moist (residual soil)
										ML	Dark reddish brown SANDY SILT with a little clay, stiff, moist (residual soil)
							5				Boring terminated at 5 feet
							10				
							15				

Date Started: August 25, 2021

Date Completed: August 25, 2021

Logged By: D. Gremminger

Total Depth: 5 feet

Work Order: 6829-10

Water Level: ▼ Not Encountered

Drill Rig: CME-55D (Energy Transfer Ratio = 77.2%)

Drilling Method: 6" Hollow-Stem Auger

Driving Energy: 140 lb. wt., 30 in. drop

Plate

A - 21