

Drilled	Start 4/25/2025	End 4/29/2025	Total Depth (ft)	246.5	Logged By Checked By	EMM KRH	Driller Holocene Drilling, Inc.	Drilling Method	Mud Rotary	
Surface Elevation (ft) Vertical Datum			29.407 NAVD88		Hammer Data		Autohammer 140 (lbs) / 30 (in) Drop		Drilling Equipment	Diedrich D70 Turbo #137
Easting (X) Northing (Y)		1636578.973 608022.842			System Datum		Project Datum		Groundwater not observed at time of exploration	
Notes: Autohammer Average Transfer Efficiency = 85%; State Plane Coordinates 1308441, 279927.9; Laboratory testing completed by GeoEngineers, WSDOT, and Haley & Aldrich										

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log				
0						Silty sand and gravel			Soil samples not collected in upper 30 feet; soil description based on drilling spoils
5									
10									
15									
20									
25									Driller noted easier drilling at 28 feet AL (LL=37; PI=17) Range of moisture content 36 to 46% ¹
30	9	WOH		1 AL, SG		Gray lean clay (very soft, moist)	46		
35									

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-1-25



Project: I-405, Brickyard to SR 527 Improvement Project
 Project Location: King and Snohomish Counties, Washington
 Project Number: 0180-423-01

Figure A-44
 Sheet 1 of 7

Date: 3/23/26 Path: \\GEOENGINEERS.COM\W\PROJECTS\0180423\GINT\018042303.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEL\GEO TECH_STD_SF_NO_GW_NO DATA SOURCE

Date: 3/23/2018 Path: \\GEOENGINEERS.COM\W\PROJECTS\0180423\GINT\018042303.GPJ DBLibrary\Library\ENGINEERS_DF_STD_US_JUNE_2017\GLB\GEOTECH_STD_%F_NO_GW_NO_DATA_SOURCE

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing				
35									
40					2 AL, GS, %F	Grades to with vertical sand seams and silty sand lenses	33	89	AL (LL=28; PI=9) Range of moisture content 31 to 33% ¹ Range of fines content 69 to 89% ¹
45					3 AL, TX, %F	Grades to with silt and sand lenses to Elevation -18.8 feet	32	100	AL (LL=37; PI=16) Range of moisture content 31 to 32% ¹
50					4 AL, SG, %F		35	100	AL (LL=37; PI=16) Range of moisture content 33 to 35% ¹
55					5 AL, TX, %F		38	100	AL (LL=38; PI=17) Range of moisture content 36 to 38% ¹
60					6 AL	Grades to with a silty sand lens from Elevation -28.7 to -28.8 feet	33		AL (LL=36; PI=16)
65									
70					7 AL		33		AL (LL=42; PI=21)
75					8 AL, GS, %F		39	94	AL (LL=42; PI=20) Range of moisture content 34 to 39% ¹ AL ² (LL=53; PI=29)

Log of Boring B-1-25 (continued)



Project: I-405, Brickyard to SR 527 Improvement Project
 Project Location: King and Snohomish Counties, Washington
 Project Number: 0180-423-01

Figure A-44
 Sheet 2 of 7

Date: 3/23/26 Path: \\GEOENGINEERS.COM\WAN\PROJECTS\010180423\GINT\018042303.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEL\GEO TECH STD_%F_NO_GW_NO DATA SOURCE

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample						
75		18	7	9			Grades to with sand, becomes medium stiff			Gravel in shoe
80		18	5	10						
85		18	4	11			Grades to without sand, becomes soft			
90										
95										
100		18	5	13			Grades to with vertical sand seams at Elevation -66.6 feet Becomes medium stiff	36	99	AL (LL=43; PI=21) AL ² (LL=46; PI=23) Range of moisture content 35 to 36% ¹
105										
110										
115		18	3	17			Becomes soft			

Log of Boring B-1-25 (continued)



Project: I-405, Brickyard to SR 527 Improvement Project
 Project Location: King and Snohomish Counties, Washington
 Project Number: 0180-423-01

Figure A-44
 Sheet 3 of 7

Date: 3/23/26 Path: \\GEOENGINEERS.COM\WAN\PROJECTS\0180423\GINT\018042303.GPJ DBLibrary\Utility\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEL\GEO TECH STD_%F_NO GW_NO DATA SOURCE

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample						
120				18 AL				31		AL (LL=41; PI=19)
125		18	3	19						
130				20 AL, %F				34	97	AL (LL=42; PI=20) Range of moisture content 32 to 34% ¹
135		18	WOH	21			Becomes very soft			
140				22 %F				33	99	
145		18	17	23 AL			Becomes very stiff	28		AL (LL=36; PI=16)
150		18	3	24 AL			Becomes soft	28		Gravel observed at top of sampler AL (LL=35; PI=15)
155		18	WOH	25 SG			Becomes very soft	37		

Log of Boring B-1-25 (continued)



Project: I-405, Brickyard to SR 527 Improvement Project
 Project Location: King and Snohomish Counties, Washington
 Project Number: 0180-423-01

Figure A-44
 Sheet 4 of 7

Date: 3/23/26 Path: \\GEOENGINEERS.COM\W\PROJECTS\010180423\GINT\018042303.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEL\GEO TECH_STD_%F_NO_GW_NO DATA SOURCE

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample						
135				26 AL				34		AL (LL=36; PI=15)
165		18	4	27			Becomes soft			
140				28 AL, CS, %F				34	98	AL (LL=34; PI=13); Range of moisture content 29 to 34% ¹
170										
145										
175		4	WOH	29			Becomes very soft			
150										
180				30 AL, HA, SA, SG, TX				28	95	AL (LL=30; PI=9) Range of moisture content 27 to 28% ¹ AL ² (LL=30; PI=9)
155										Organic material observed in drilling spoils
185		0	WOH	31						No recovery, rock stuck in sampler
160										
190				32 %F				35	96	
165										
195		5	50	33 %F			Becomes hard	43	72	Driller noted stiffer conditions at 194½ feet
170										Drill chatter from 197 to 198 feet
200		18	19	34			Grades to blocky with sand lenses, becomes very stiff			

Log of Boring B-1-25 (continued)



Project: I-405, Brickyard to SR 527 Improvement Project
 Project Location: King and Snohomish Counties, Washington
 Project Number: 0180-423-01

Figure A-44
 Sheet 5 of 7

Date: 3/23/26 Path: \\GEOENGINEERS.COM\WAN\PROJECTS\010180423\GINT\018042303.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017\GLB\GEL\GEO TECH STD_%F_NO GW_NO DATA SOURCE

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample						
175										
205		18	28	35			Grades to without sand lenses			
180										
210		18	31	36			Becomes hard			
185										
215		18	29	37 %F			Becomes very stiff	30	98	
190										
220		18	28	38						
195										
225		18	35	39			Becomes hard			
200										
230		18	31	40 %F				32	99	
205										
235		18	40	41						
210										
240		18	43	42						

Log of Boring B-1-25 (continued)



Project: I-405, Brickyard to SR 527 Improvement Project
 Project Location: King and Snohomish Counties, Washington
 Project Number: 0180-423-01

Figure A-44
 Sheet 6 of 7

Elevation (feet)	Depth (feet)	FIELD DATA				MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log			
245	245	18	40		43				
Boring terminated at 246.5 feet below ground surface. Notes: 1. Where multiple moisture or fines content tests were performed within a single sample, the range of reported results is presented in the Remarks column and the highest reported result is presented in the respective Moisture or Fines Content (%) columns. 2. Sample was collected from the top or bottom of the piston tube prior to extracting the entire piston sample. Laboratory tests performed were used for screening purposes only and results were not used for USCS classification.									

Log of Boring B-1-25 (continued)



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Figure A-44
 Sheet 7 of 7