AS Engineering and Consulting LLC

Density Test Report

Date : 11/17/2025
Project No : 2025C211
Client Company : Pulte
Arrival Time : 11/17/2025 07:30
Onsite Hours : 07:30

ASEC Report ID : 88050
Name of the Project : Haley's Bluff - Philadelphia Rd.
Project Location : Jasper
Weather : Sunny
Departure Time : 11/17/2025 15:00
ASEC Technician Name : Sean Willett

Test Date	Test Number	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Max. Dry Density (pcf)	Optimum Moisture (%)	Compaction (%)	Specified Compaction (%)	ASTM Test Method	Pass/Fail
11/17/2025	1	17.5	95.2	FP 3	100.5	20.5	94.7	98	D6938	Fail
Location :	Deceleration lane BC4.0 to 5.0, Elv/Depth :1 to 2 feet from finished grade									
Comment :	This is a high traffic area with loaded trucks driving across this area and requires compaction to +98%. Will plan to retest within this week. Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett					Gauge Serial No. : 77-19952				
11/17/2025	2	17.5	95.9	FP 3	100.5	20.5	95.4	98	D6938	Fail
Location :	Deceleration lane BC4.0 to BC5.0, Elv/Depth :1 to 2 feet from finished grade									
Comment :	This is a high traffic area with loaded trucks driving in this area and should compact to +98%. Will plan to retest within this week. Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett					Gauge Serial No. : 77-19952				
11/17/2025	3	16.1	94.9	FP 3	100.5	20.5	94.4	98	D6938	Fail
Location :	Deceleration lane BC4.1, Elv/Depth :1 to 2 feet from finished grade									
Comment :	This is a high traffic area with loaded trucks driving in this area and should compact to +98%. Will plan to retest within this week. Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett					Gauge Serial No. : 77-19952				
11/17/2025	4	17.5	92.7	FP 3	100.5	20.5	92.2	98	D6938	Fail
Location :	Deceleration lane BC4.0 to BC4.1, Elv/Depth :1 to 2 feet from finished grade									
Comment :	This is a high traffic area with loaded trucks driving in this area and should compact to +98%. Will plan to retest within this week. Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett					Gauge Serial No. : 77-19952				
11/17/2025	5	17.5	91.8	FP 3	100.5	20.5	91.3	98	D6938	Fail
Location :	Deceleration lane BC4.1 to BC4.2, Elv/Depth :1 to 2 feet from finished grade									
Comment :	This is a high traffic area with loaded trucks driving in this area and should compact to +98%. Will plan to retest within this week. Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett					Gauge Serial No. : 77-19952				
11/17/2025	moisture check	17.5	0.0						Check	
Location :	Deceleration lane, Elv/Depth :1 to 2 feet from finished grade									
Comment :	in place moisture check									
Tested By :	Sean Willett									
11/17/2025	6	17.5	112.5	FP 3	100.5	20.5	95.2	95	D6938	Pass
Location :	Lot #4, Elv/Depth :1507									
Comment :	Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett					Gauge Serial No. : 77-19952				
11/17/2025	7	18.1	98.8	FP 3	100.5	20.5	98.3	95	D6938	Pass
Location :	Lot #3, Elv/Depth :1508									
Comment :										
Tested By :	Sean Willett					Gauge Serial No. : 77-19952				

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11/17/2025	8	17.5	96.4	FP 3	100.5	20.5	95.9	98	D6938	Fail
Location :	Lot #1, Elv/Depth :1509-1510									
Comment :	Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett			Gauge Serial No. : 77-19952						
11/17/2025	9	17.5	93.3	FP 3	100.5	20.5	92.8	98	D6938	Fail
Location :	Roadway in front of Lot #3 , Elv/Depth :1 foot from finished grade									
Comment :	This is a high traffic area for loaded trucks, will test again within this week. Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett			Gauge Serial No. : 77-19952						
11/17/2025	10	17.5	87.9	FP 3	100.5	20.5	87.5	98	D6938	Fail
Location :	Roadway in front of Lot #1, Elv/Depth :1 foot from finished grade									
Comment :	Contractor stated they had not packed this area yet. Will test again soon. This is also a high traffic area for loaded trucks. Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett			Gauge Serial No. : 77-19952						
11/17/2025	11	25.8	73.2	2025-055	107.3	15.5	68.2	100	D6938	Fail
Location :	Topsoil test over BA headwall , Elv/Depth :									
Comment :	No proctor for topsoil. This test was requested by the contractor									
Tested By :	Sean Willett			Gauge Serial No. : 77-19952						
11/17/2025	12	15.0	109.9	FP 3	100.5	20.5	95.1	95	D6938	Pass
Location :	Lot #4 , Elv/Depth :1509									
Comment :	Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett			Gauge Serial No. : 77-19952						
11/17/2025	13	15.0	95.9	FP 3	100.5	20.5	95.4	95	D6938	Pass
Location :	Lot #3, Elv/Depth :1509									
Comment :	Moisture content was adjusted with an in-place dry back moisture content due to large amount of mica present in soil.									
Tested By :	Sean Willett			Gauge Serial No. : 77-19952						
	in-place moisture check	15.0	0.0						Check	
Location :	Fill used on Lots #3 and #4, Elv/Depth :									
Comment :										
Tested By :	Sean Willett									

Remark: Test performed in general accordance with signatured referenced ASTM Method.

Kenneth Mosman

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PROCTOR DATA SUMMARY

TEST DATE	PROCTOR ID	MAX DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR TYPE	SOIL DESCRIPTION
10/13/2025	2025-048	109.2	16.1	Standard	Red micaceous sandy silt (fine to coarse sand)
10/15/2025	FP 1	95.0	22.0	Standard	Red micaceous silty sand with clay
11/03/2025	2025-055	107.3	15.5	Standard	Light brown sandy silt
10/31/2025	FP 2	100.0	18.5	Standard	Brown micaceous sandy silt
11/10/2025	FP 3	100.5	20.5	Standard	Red sandy silt with clay