CBR PUERTO VILLAMIZAR

UK DCP V3.1

Penetration Data Report

Project Name: Vias Rurales San José de Cúcuta

Chainage (km):	0.000	Surface Type:	Unpaved
Direction:	0	Thickness (mm):	0
Location/Offset:	Lane 1	Base Type:	
Cone Angle:	60 degrees	Thickness (mm):	
Zero Error (mm):	0	Surface Moisture:	Moderate
Test Date:	11/06/2025	Moisture adjustment factor:	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	0	0.00					
2	2	2	70	35.00					
3	2	4	135	32.50					
4	2	6	195	30.00					
5	2	8	310	57.50					
6	2	10	375	32.50					
7	4	14	470	23.75					
8	4	18	560	22.50					
9	4	22	643	20.75					
10	6	28	735	15.33					
11	6	34	855	20.00					

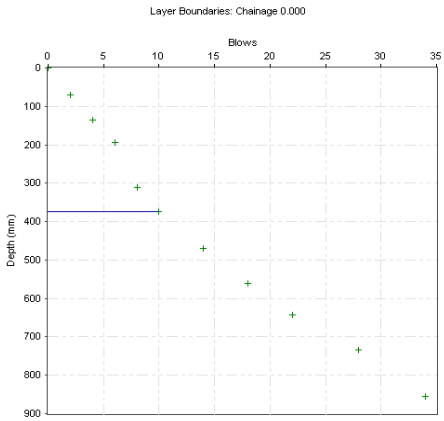
Remarks: AP1 - Calle 5 - Corregimiento Puerto Villamizar

UK DCP V3.1

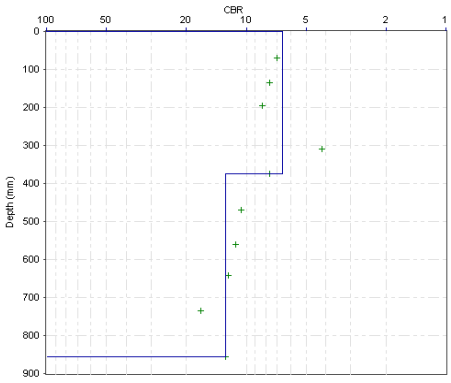
DCP Layer Strength Analysis Report

Project Name: Vias Rurales San José de Cúcuta

Chainage (km):	0.000	Surface Type:	Unpaved
Direction:	0	Thickness (mm):	0
Location/Offset:	Lane 1	Base Type:	
Cone Angle:	60 degrees	Thickness (mm):	
Zero Error (mm):	0	Surface Moisture:	Moderate
Test Date:	11/06/2025	Moisture adjustment factor:	Not adjusted



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Position	Strength Coefficient	SN	SNC	SNP
1	37.50	7	375	375	Subgrade	--	--	--	--
2	20.00	13	480	855	Subgrade	--	--	--	--

Pavement Strength

	Layer Contribution		
Layer	**SN**	**SNC**	**SNP**
Surface	--	--	--
Base	--	--	--
Sub-Base	--	--	--
Subgrade	--	0.87	0.87
Pavement Strength	--	0.87	0.87

CBR Relationship:

TRL equation: $\log_{10}(CBR) = 2.48 - 1.057 \times \log_{10}(Strength)$

Report produced by .....

UK DCP V3.1

Penetration Data Report

Project Name: Vias Rurales San José de Cúcuta

Chainage (km):	0.000	Surface Type:	Unpaved
Direction:	0	Thickness (mm):	0
Location/Offset:	Lane 2	Base Type:	
Cone Angle:	60 degrees	Thickness (mm):	
Zero Error (mm):	0	Surface Moisture:	Moderate
Test Date:	11/06/2025	Moisture adjustment factor:	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	0	0.00					
2	1	1	80	80.00					
3	2	3	211	65.50					
4	2	5	280	34.50					
5	2	7	393	56.50					
6	4	11	482	22.25					
7	4	15	555	18.25					
8	6	21	655	16.67					
9	6	27	730	12.50					
10	8	35	805	9.38					
11	8	43	905	12.50					

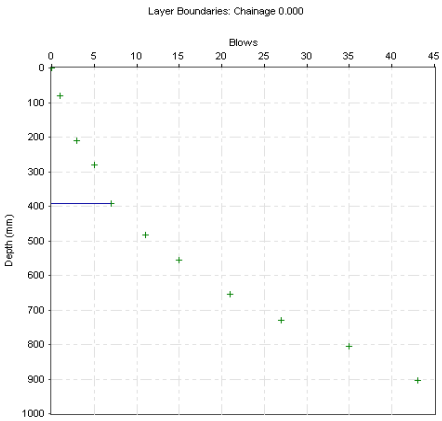
Remarks: Calle 4 - Corregimiento de Puerto Villamizar

UK DCP V3.1

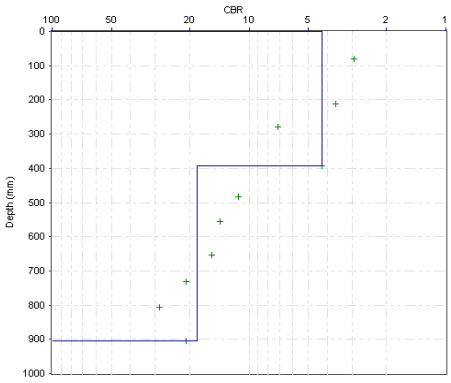
DCP Layer Strength Analysis Report

Project Name: Vias Rurales San José de Cúcuta

Chainage (km):	0.000	Surface Type:	Unpaved
Direction:	0	Thickness (mm):	0
Location/Offset:	Lane 2	Base Type:	
Cone Angle:	60 degrees	Thickness (mm):	
Zero Error (mm):	0	Surface Moisture:	Moderate
Test Date:	11/06/2025	Moisture adjustment factor:	Not adjusted



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Position	Strength Coefficient	SN	SNC	SNP
1	56.14	4	393	393	Subgrade	--	--	--	--
2	14.22	18	512	905	Subgrade	--	--	--	--

Pavement Strength

	Layer Contribution		
Layer	**SN**	**SNC**	**SNP**
Surface	--	--	--
Base	--	--	--
Sub-Base	--	--	--
Subgrade	--	0.45	0.45
Pavement Strength	--	0.45	0.45

CBR Relationship:

TRL equation: $\log_{10}(CBR) = 2.48 - 1.057 \times \log_{10}(Strength)$

Report produced by .....

CBR LA FLORESTA

UK DCP V3.1

Penetration Data Report

Project Name: Vias Rurales San José de Cúcuta

Chainage (km):	0.000	Surface Type:	Unpaved
Direction:	0	Thickness (mm):	0
Location/Offset:	Lane 3	Base Type:	
Cone Angle:	60 degrees	Thickness (mm):	
Zero Error (mm):	0	Surface Moisture:	Moderate
Test Date:	11/06/2025	Moisture adjustment factor:	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	0	0.00					
2	2	2	50	25.00					
3	2	4	95	22.50					
4	4	8	195	25.00					
5	4	12	300	26.25					
6	4	16	428	32.00					
7	4	20	540	28.00					
8	4	24	675	33.75					
9	4	28	780	26.25					
10	4	32	890	27.50					

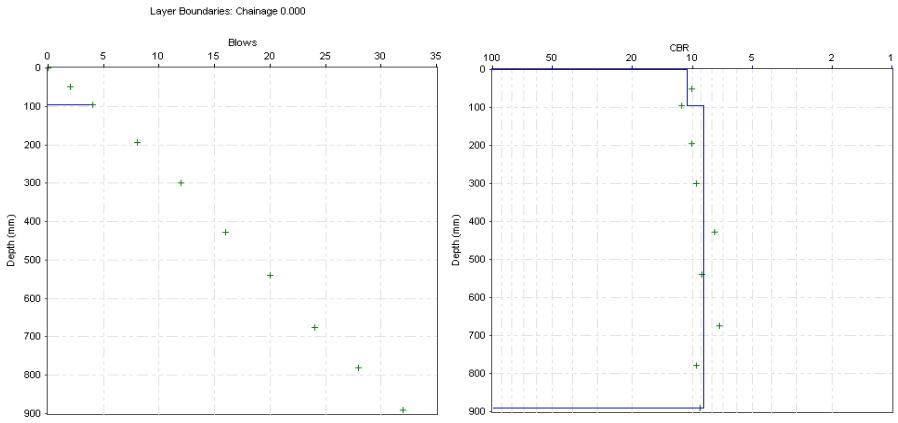
Remarks: AP3 - Calle 8 - La Floresta - Camilo Torres

UK DCP V3.1

DCP Layer Strength Analysis Report

Project Name: Vias Rurales San José de Cúcuta

Chainage (km):	0.000	Surface Type:	Unpaved
Direction:	0	Thickness (mm):	0
Location/Offset:	Lane 3	Base Type:	
Cone Angle:	60 degrees	Thickness (mm):	
Zero Error (mm):	0	Surface Moisture:	Moderate
Test Date:	11/06/2025	Moisture adjustment factor:	Not adjusted



Layer Boundaries Chart

CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Position	Strength Coefficient	SN	SNC	SNP
1	23.75	11	95	95	Subgrade	--	--	--	--
2	28.39	9	795	890	Subgrade	--	--	--	--

Pavement Strength

	Layer Contribution		
Layer	**SN**	**SNC**	**SNP**
Surface	--	--	--
Base	--	--	--
Sub-Base	--	--	--
Subgrade	--	1.13	1.13
Pavement Strength	--	1.13	1.13

CBR Relationship:

TRL equation: $\log_{10}(CBR) = 2.48 - 1.057 \times \log_{10}(Strength)$

Report produced by .....

UK DCP V3.1

Penetration Data Report

Project Name: Vias Rurales San José de Cúcuta

Chainage (km):	0.000	Surface Type:	Unpaved
Direction:	0	Thickness (mm):	0
Location/Offset:	Lane 4	Base Type:	
Cone Angle:	60 degrees	Thickness (mm):	
Zero Error (mm):	0	Surface Moisture:	Moderate
Test Date:	11/06/2025	Moisture adjustment factor:	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	0	0.00					
2	2	2	60	30.00					
3	2	4	110	25.00					
4	4	8	210	25.00					
5	4	12	310	25.00					
6	4	16	440	32.50					
7	4	20	580	35.00					
8	4	24	700	30.00					
9	4	28	810	27.50					
10	4	32	910	25.00					

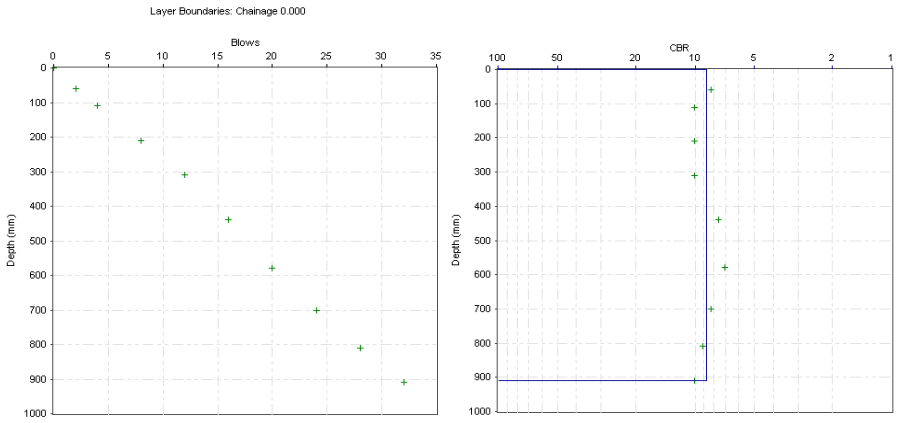
Remarks: AP4 - Calle 8 - La Floresta - Camilo Torres

UK DCP V3.1

DCP Layer Strength Analysis Report

Project Name: Vias Rurales San José de Cúcuta

Chainage (km):	0.000	Surface Type:	Unpaved
Direction:	0	Thickness (mm):	0
Location/Offset:	Lane 4	Base Type:	
Cone Angle:	60 degrees	Thickness (mm):	
Zero Error (mm):	0	Surface Moisture:	Moderate
Test Date:	11/06/2025	Moisture adjustment factor:	Not adjusted



Layer Boundaries Chart | CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)	Position	Strength Coefficient	SN	SNC	SNP
1	28.44	9	910	910	Subgrade	--	--	--	--

Pavement Strength

	Layer Contribution		
Layer	**SN**	**SNC**	**SNP**
Surface	--	--	--
Base	--	--	--
Sub-Base	--	--	--
Subgrade	--	1.12	1.12
Pavement Strength	--	1.12	1.12

CBR Relationship:

TRL equation: $\log_{10}(CBR) = 2.48 - 1.057 \times \log_{10}(Strength)$

Report produced by .....

CONSOLIDADO CBR – VIAS RURALES CÚCUTA

UK DCP V3.1

Tests Summary Report

Project Name: Vias Rurales San José de Cúcuta

Test Details					Upper Layers			Test Layers			Pavement Strength	
No.	Test Date	Chainage (km)	Location	Offset (m)	Surface Type	Surface Moisture	Base Type	Base Thickness (mm)	Sub-base Thickness (mm)	Subgrade CBR (%)	SN	SNP
1	11/06/2025	0.000	Lane 1	--	Unpaved	0.71 (Moderate)	--	--	--	7	--	0.87
2	11/06/2025	0.000	Lane 2	--	Unpaved	0.71 (Moderate)	--	--	--	4	--	0.45
3	11/06/2025	0.000	Lane 3	--	Unpaved	0.71 (Moderate)	--	--	--	9	--	1.13
4	11/06/2025	0.000	Lane 4	--	Unpaved	0.71 (Moderate)	--	--	--	9	--	1.12

CBR PUERTO VILLAMIZAR

CBR LA FLORESTA

