



**ROAD PAVEMENTS
FORUM**

26 November 2025

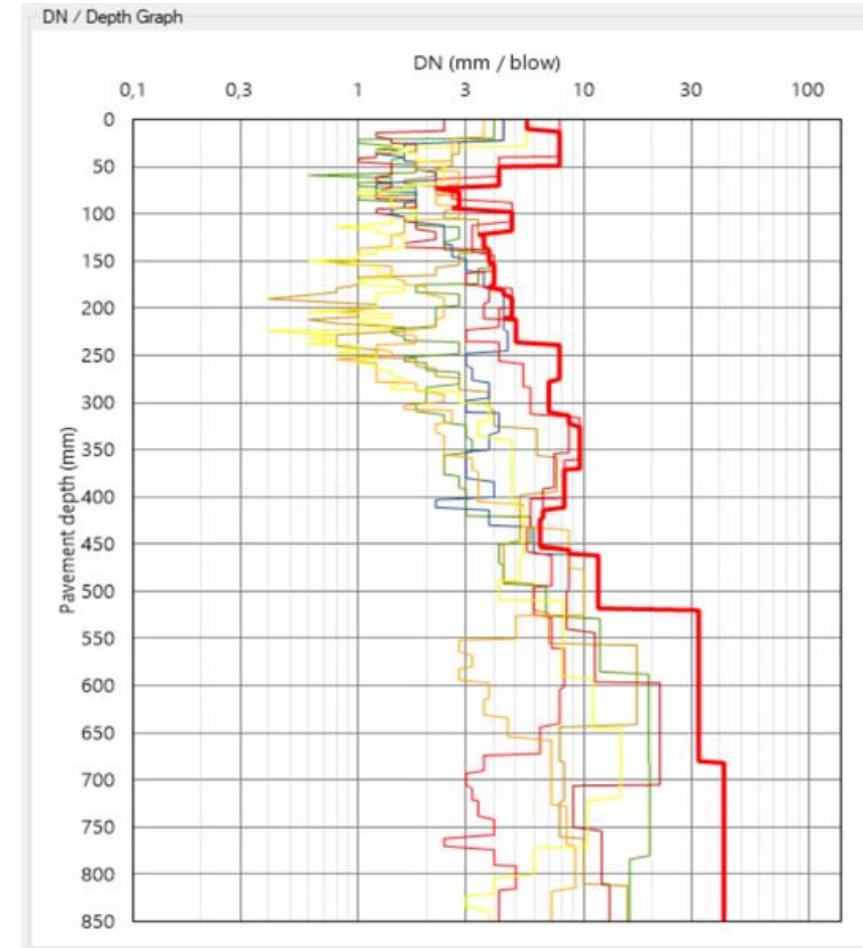
Introduction of the EBIT-DCP Software to support TRH24 implementation

**Dr Julius Komba
University of Pretoria**

Purpose of presentation

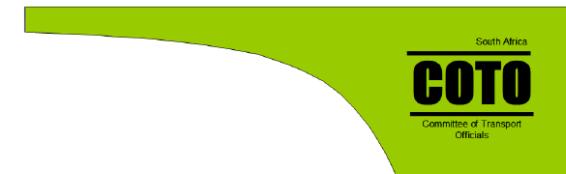
- Introduce EBIT-DCP Software

- Website
- How do download the software
- Key features



Background

- Draft TRH 24 recommends DCP design method – **See Chapter 5**
- DCP data processing to determine **inherent bearing capacity**
 - AFCAP/ReCAP LVR DCP – up to **1 MESA**
 - EBIT-DCP software – up to **10 MESA**
 - **Manually – Using simple Excel spreadsheet**



TRH 24

$$In-situ \text{ bearing capacity} = 10^{\left(\frac{Depth + 1285 - 457 \log((C_f)(DCP-DN))}{194} \right)} \quad \dots \quad (5.4)$$

Where:

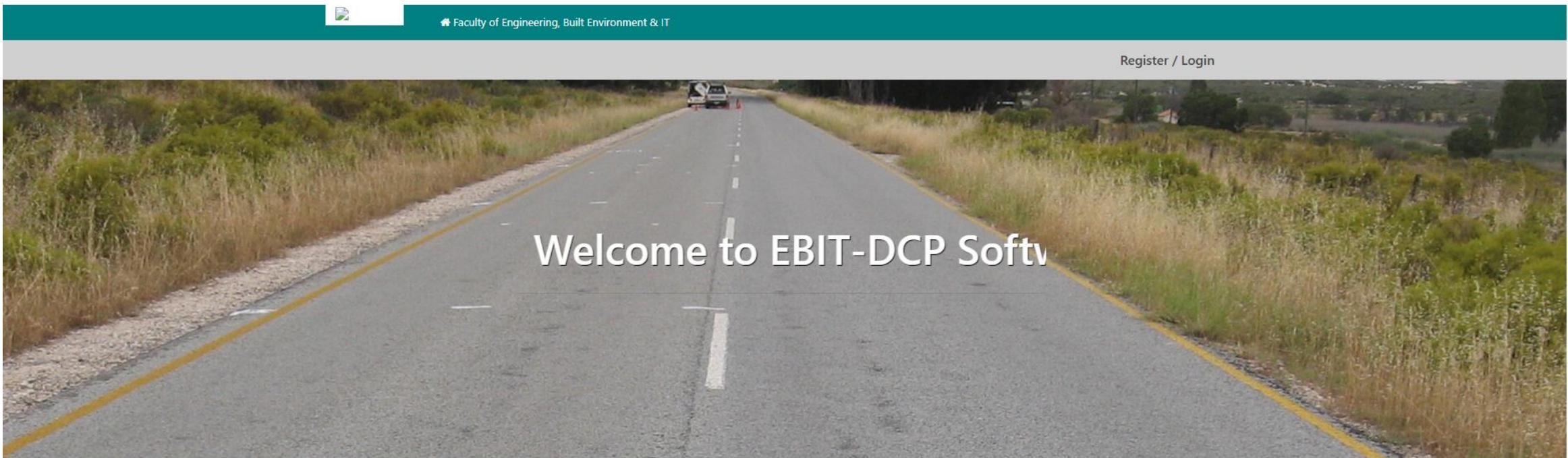
In-situ Bearing capacity = DCP-DN related bearing capacity in depth in E80s;
 Depth = depth in pavement structure in mm
 DCP-DN = processed percentile value of DCP tests in mm/blow
 C_f = Climatic adjustment factor (Table 35)

UPGRADING OF UNPAVED ROADS

Draft Standard (DS)
 October 2024

Website

- www.ebitpostgraduelifecycle.website/EBIT-DCP/index.php



EBIT DCP Software

Website – How to register/log in

Registration

Your Email address

Password

Name of Organisation / Institution

Register

[Back to Login](#)

EBIT DCP Software Login

Your Email address

Password

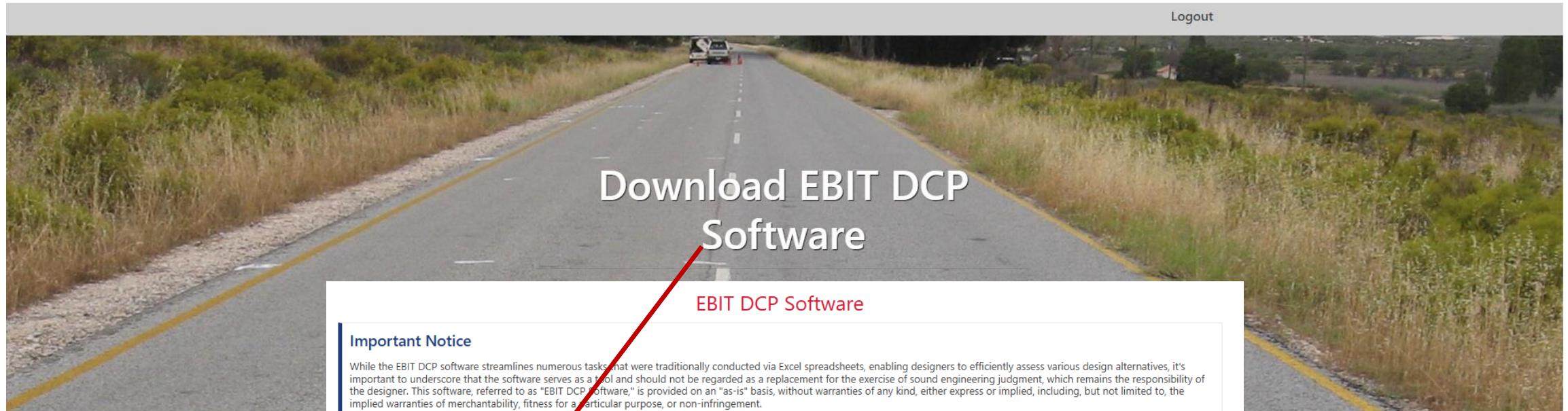
Log in

[New user](#) [Lost password](#) [Contact support](#)

Contact Support

For all Technical Problems, Please send an email to Dr Julius Komba at julius.komba@up.ac.za or Christopher Njaravani at u15022392@tuks.co.za

Website – Download software



Technical Problems

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Using the software

Confirm

Terms

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

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A "covered work" means either the unmodified Program or a work based on the Program.

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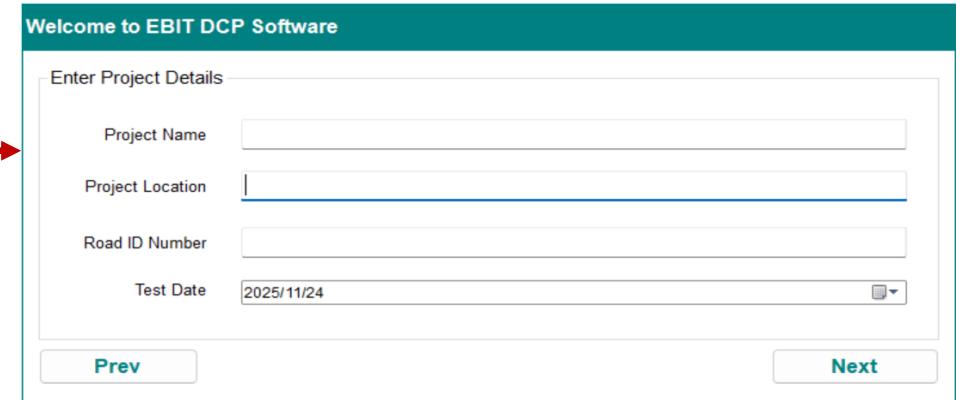
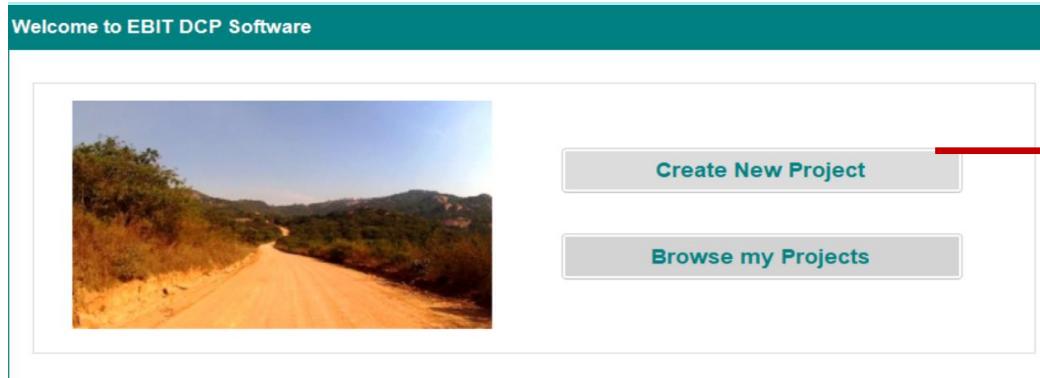
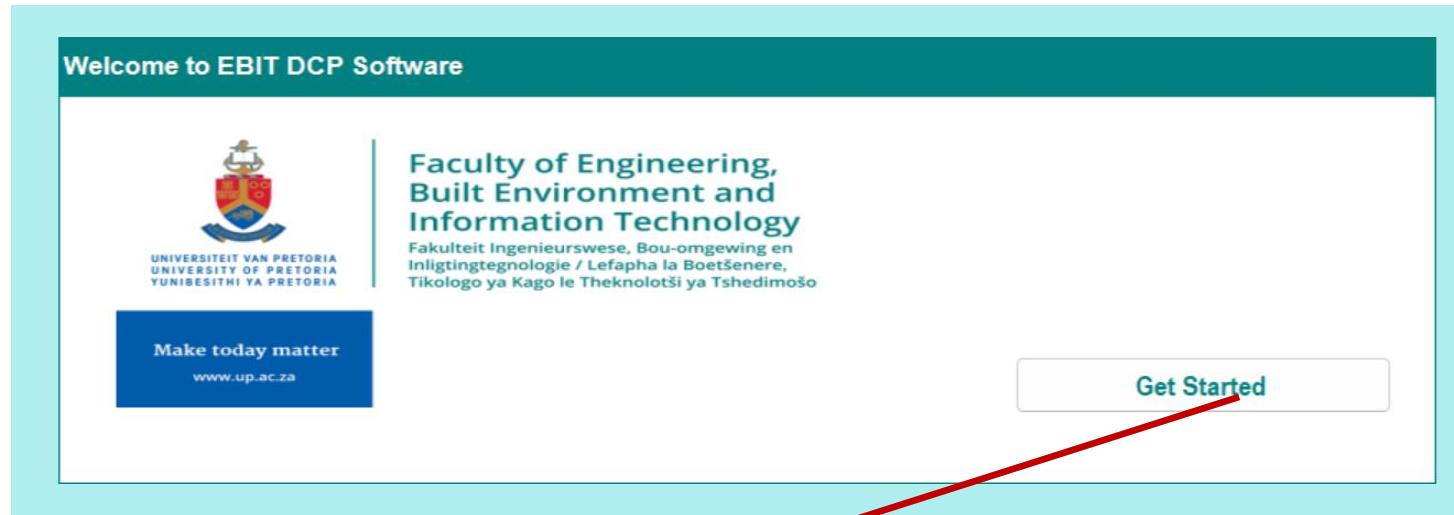
To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

Key features - Home screen



Welcome to EBIT DCP Software

Enter Project Details

Project Name:

Project Location:

Road ID Number:

Test Date: 2025/11/24

Prev

Typical project

Ebit DCP Tool

File Export Analysis Sections Help

Project Information

Tests

- Test Project
 - 1
 - 2
 - 3
 - 4
 - 6**
 - 7
 - 8
- Single Test Analysis
- Multiple Test Analysis
 - 1
 - 2
 - 3
 - 4
 - 6
 - 7
 - 8

Add Test Points

Test Information

Blows

Fixed Blows Variable Blows

Blows per reading:

TLC Cf Road Category Road Side Chainage (km)

User defined - TLC(MESA) User defined Percentile

DCP Test Data

Reading Number	Cumulative Blows	Depth(mm)	Comments	Select Row
1	0	10		<input type="checkbox"/>
2	5	49		<input type="checkbox"/>
3	10	70		<input type="checkbox"/>
4	15	81		<input type="checkbox"/>
5	20	94		<input type="checkbox"/>
6	25	118		<input type="checkbox"/>
7	30	134		<input type="checkbox"/>
8	35	150		<input type="checkbox"/>
9	40	170		<input type="checkbox"/>
10	45	185		<input type="checkbox"/>
11	50	209		<input type="checkbox"/>
12	55	230		<input type="checkbox"/>
13	60	245		<input type="checkbox"/>
14	65	266		<input type="checkbox"/>
15	70	293		<input type="checkbox"/>
16	75	322		<input type="checkbox"/>
17	80	370		<input type="checkbox"/>
18	85	411		<input type="checkbox"/>
19	90	440		<input type="checkbox"/>
20	95	460		<input type="checkbox"/>

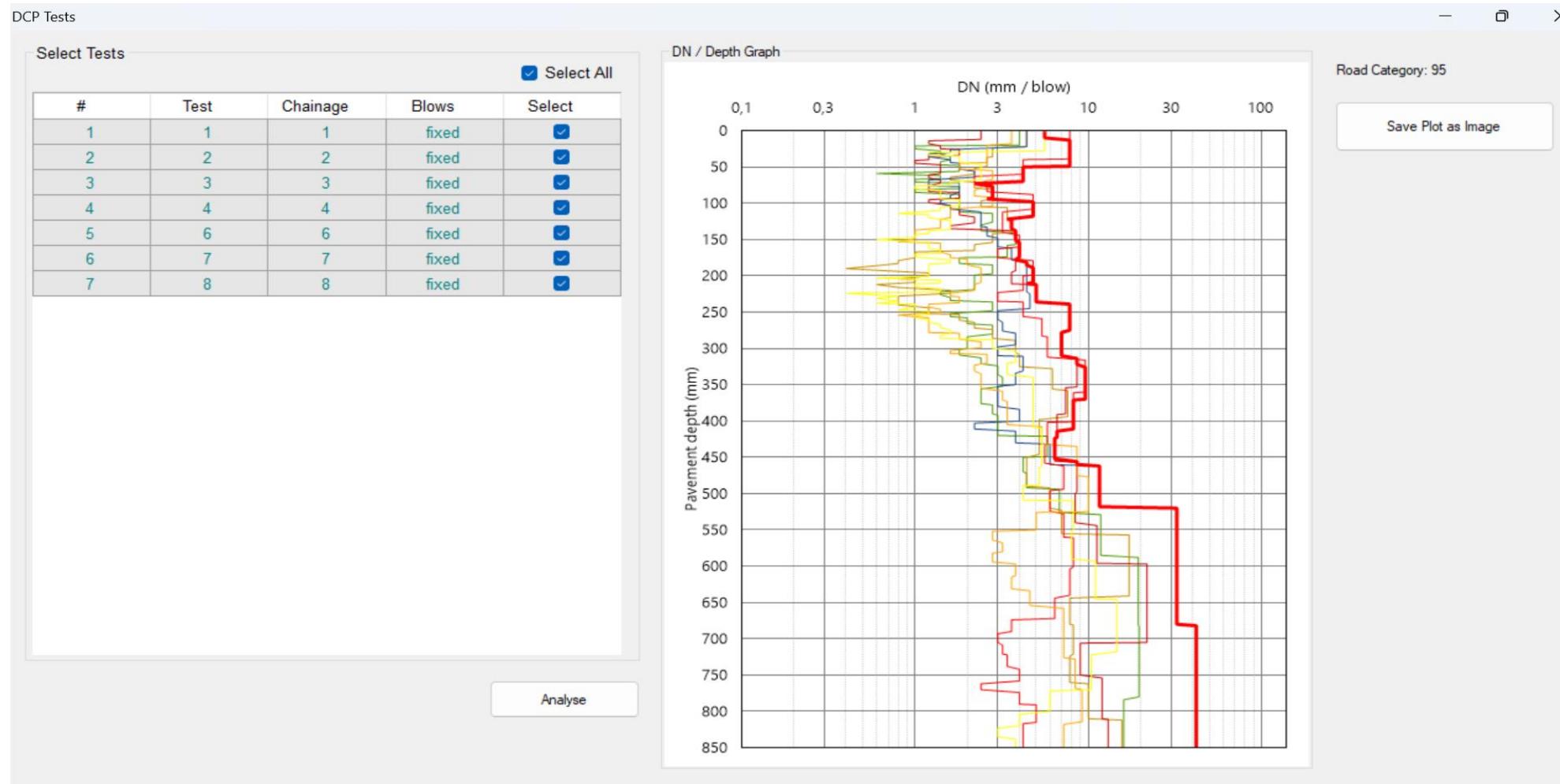
Add Row Delete Row Paste Points

Test Number / ID: 6

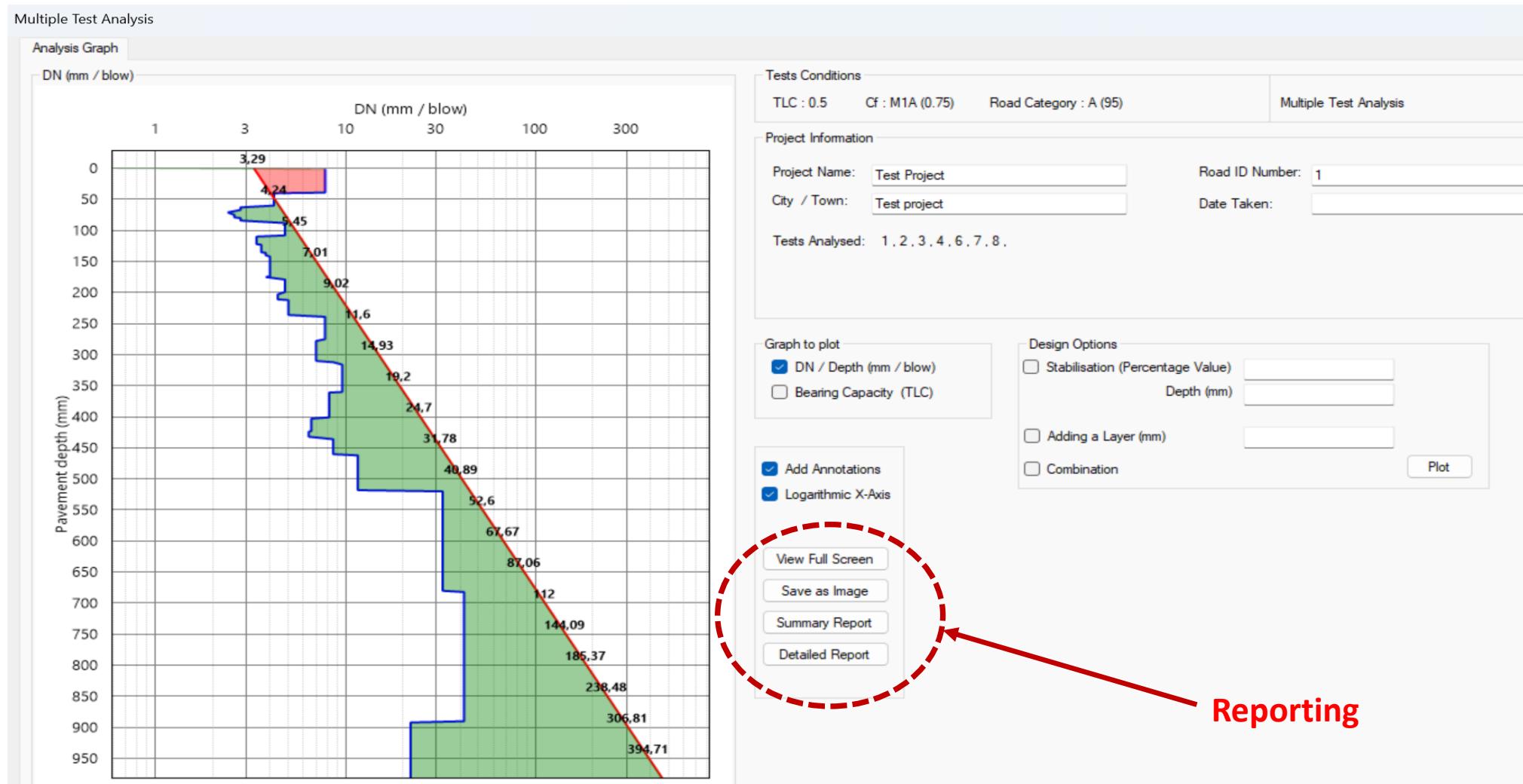
Survey Date: Wednesday, 30 October

Test Notes

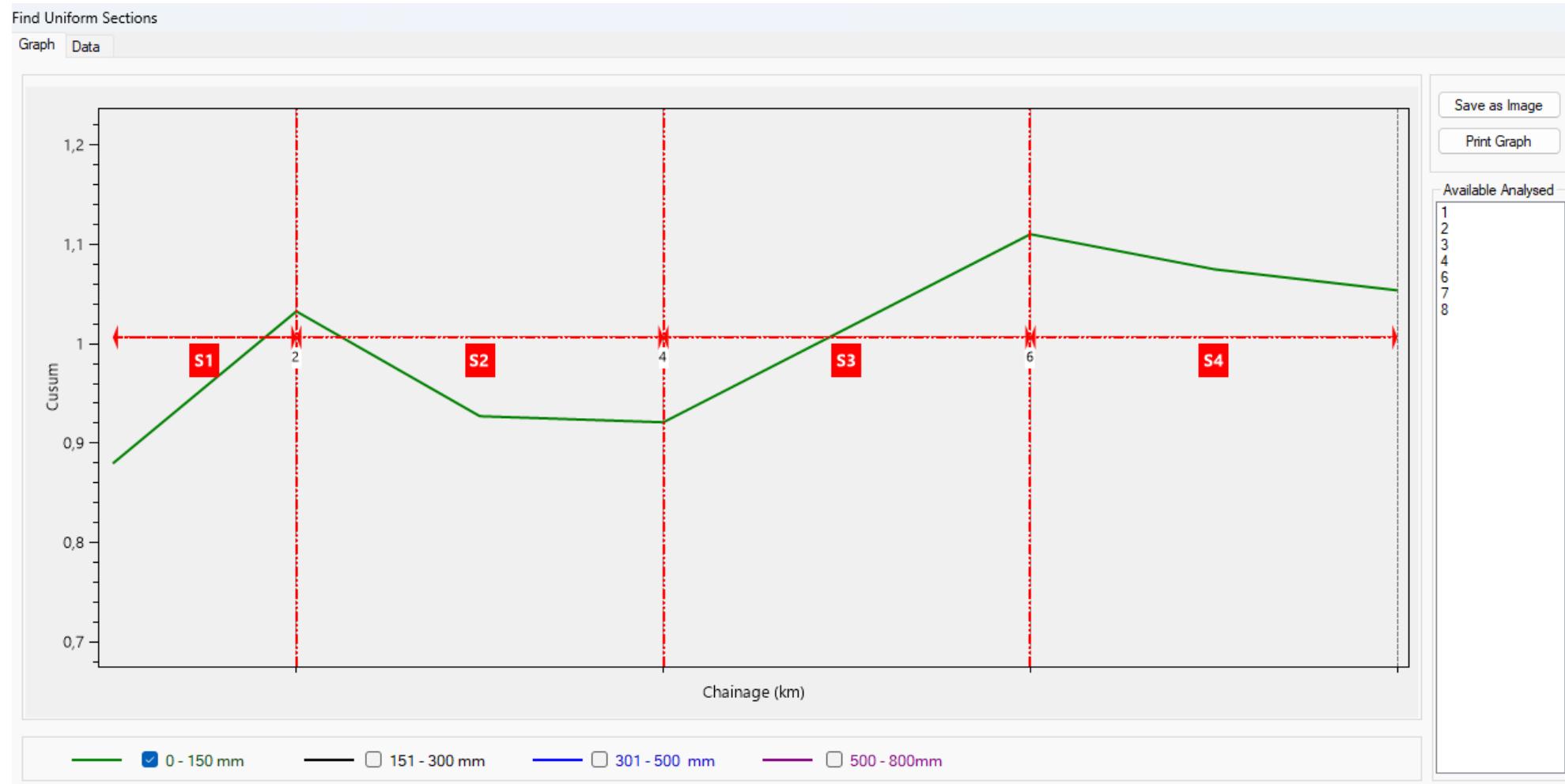
Data analysis/processing



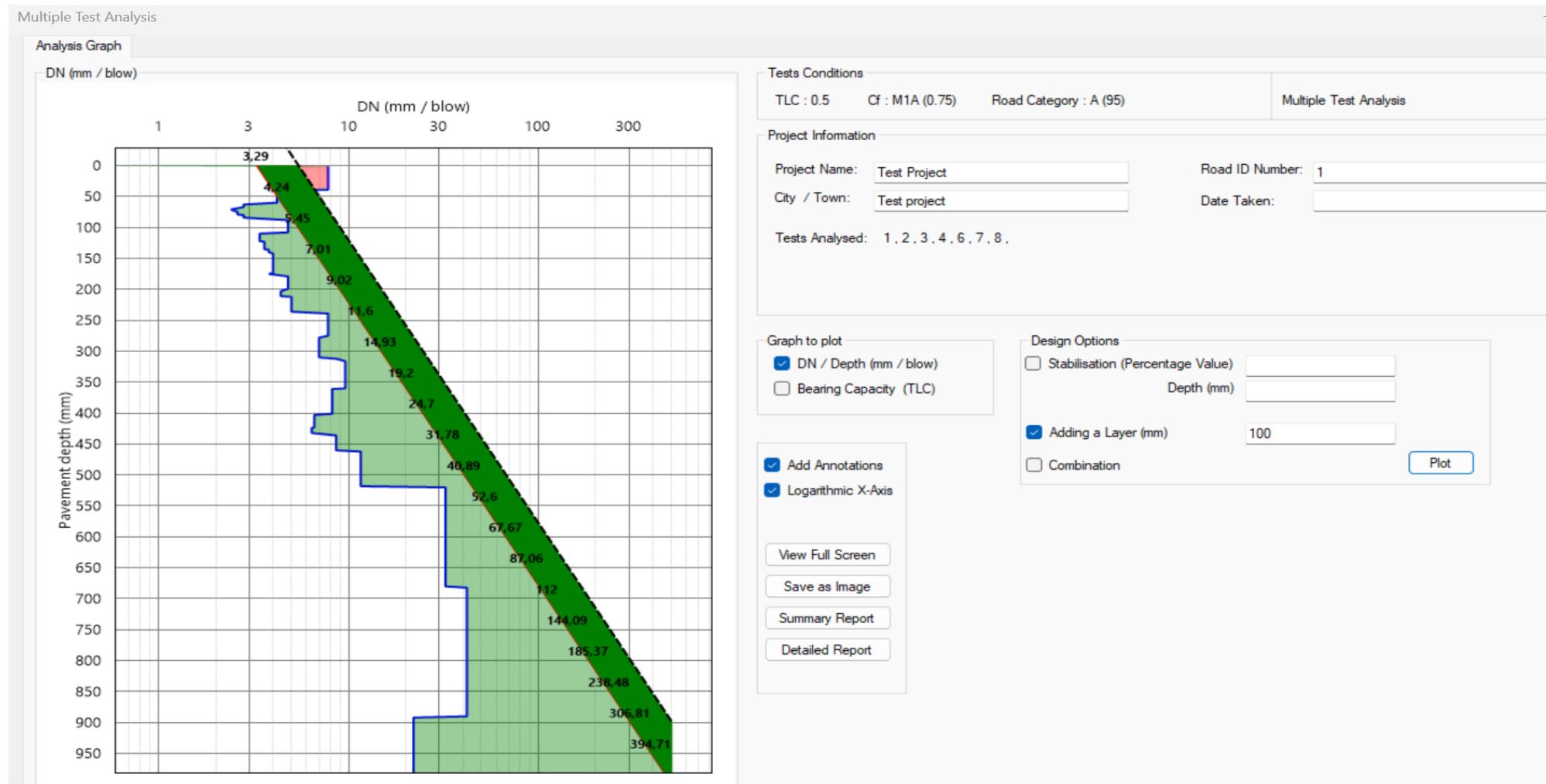
Data analysis/processing



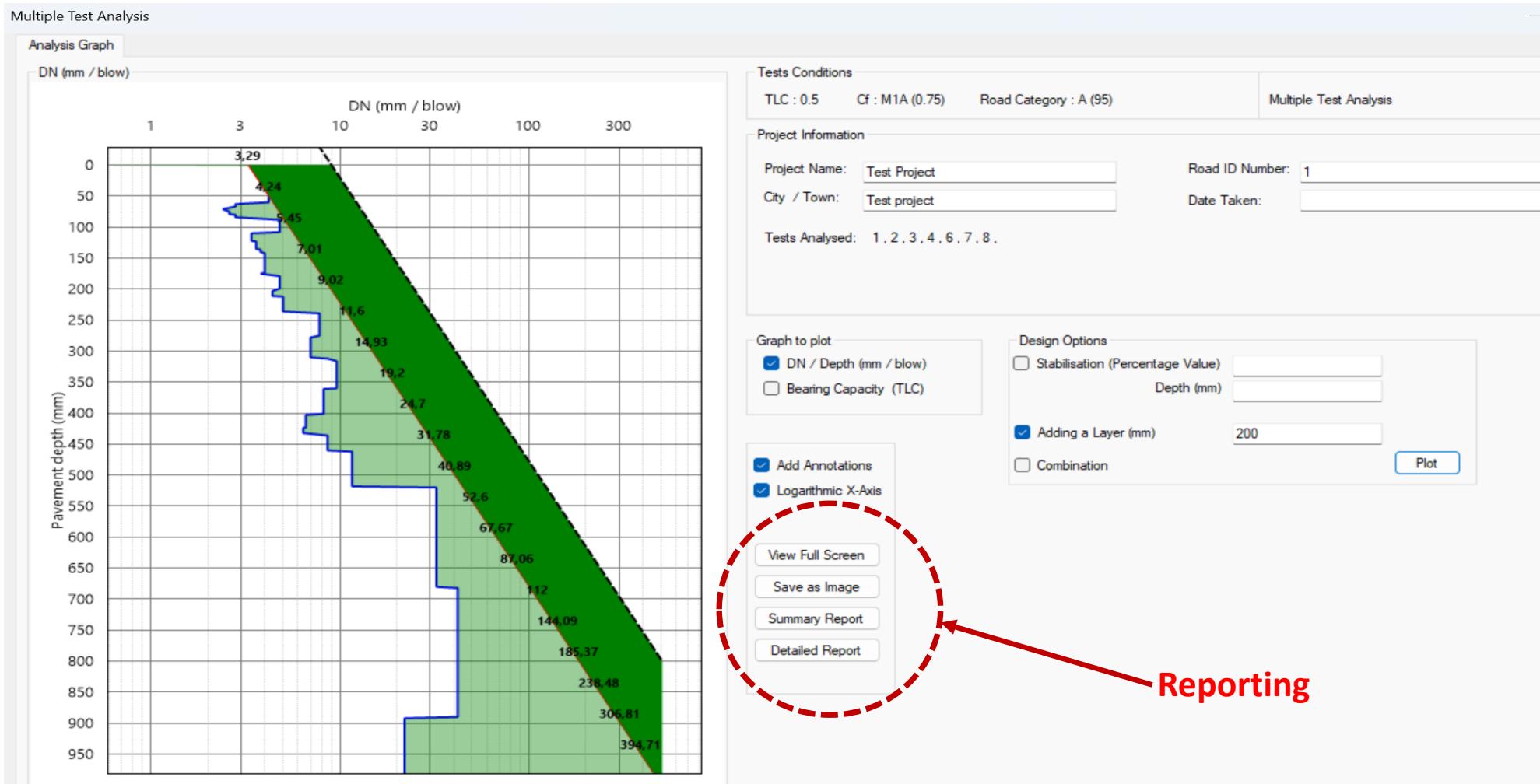
Analysis: Uniform sections – End of Phase 1



Analysis – Phase 2 – Add 100 mm layer



Analysis – Phase 2 – Add 200 mm layer



Thank you

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