

Software Test Report

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# Overview

This document is the Software Test Report of the testing phase of the reproject spatial vector data software development project.

Testing phases have been developed to ensure that the code submitted to the client is robust in accepting or rejecting input data appropriately.

# Testing phases

## Planning

Plan the testing by completing the table below.

Table 1 – Test plan

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test name | Summary | Expected result |
| 1 | Function 1 | Ensure function 1 only accepts valid file. | If a valid vector file is supplied, the function will write to a geodataframe. |
| 2 | Function 2 | Ensure the number of rows returned is defined by the user in the command line. | The user can continue to see additional rows by returning ‘y’ or exit the function by returning ‘n’. |
| 3 | Function 3 | Ensure function 3 only accepts a valid CRS ESPG reference. | If a valid ESPG is supplied the function will continue to transform the input geodataframe. |

## Method

[Click/tap to add some information about the tests performed such as:

* when the tests were run
* who was involved
* what software version and/or platform was used.]

## 

## Results

Complete the table below with the test results. Include the Test ID (as listed in the Test planning), the actual results from the testing, screenshots of the testing and any relevant comments or information (where required), and the outcome of the test (did it pass or fail?).

Table 2 – Test results

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test results | Screenshots of testing/ relevant comments | Test outcome  (pass/fail) |
| 1 | A non-valid file (.txt) was supplied to the function for error message testing.  A valid (.shp) was supplied to confirm functionality. | When a non-valid filetype such as a txt file is passed to the function, an error is returned as expected:    When a valid filetype is passed to the function, the function returns nothing as expected. | Pass |
| 2 | The function was run with the geodataframe supplied by the previous function. | The function successfully returned the desired results, where the ‘y’ produced the next row in the attribute table. | Pass |
| 3 | [Click/tap to add the actual results] | When a non-valid ESPG code such as “abc” is passed to the function, an error is returned as expected:    When a valid ESPG code is passed to the function, the function returns nothing as expected. | Pass |

## 

## Analysis and conclusions

The assessment requirements are outlined in the table below. Error testing was undertaken and minimal changes to the script were required. The software handled non-valid inputs well, returning useful error messaging. The script is suitable for use for other input vector files.

Table 3 – Software evaluation

|  |  |
| --- | --- |
| Software specification | Evaluation |
| You must write a script to view and reproject spatial vector data | The script successfully runs 3 sequential functions to take an input shapefile, reproject and export to an output shapefile. |
| You must use Geopandas library [GeoPandas 1.0.1](https://geopandas.org/en/stable/) | Geopandas was utilised within the functions. |
| The script must be written in an acceptable integrated development environment (IDE) such as [Microsoft Visual Studio](https://visualstudio.microsoft.com/) Code | Microsoft Visual Code was used to write and debug the script. |

# Software approval

Software is approved for installation by:

Name

Caitlin Hanrahan

Role

Spatial Specialist

Signature Date

C.Hanrahan 21/10/2025