

## Summary:

The below analysis is based on information from 'C3\_concrete\_test\_result\_sheet\_20220324.xls'. For this analysis, a total of 12 sheets were considered, out of which 8 were deemed to have the data necessary for analysis.

| Sheet Name                      | Status   | Sets Considered |
|---------------------------------|----------|-----------------|
| Summary - Sets Received         | Skipped  | N/A             |
| CIP Concrete Test Results       | Skipped  | N/A             |
| W1 - Watertight Concrete        | Analysed | 32              |
| W2 - Exterior Structural        | Analysed | 32              |
| W3-Interior Structural          | Analysed | 7               |
| W4 - Large Manhole Outfall      | Analysed | 1               |
| W5 - Lean Concrete              | Analysed | 4               |
| W6 - Watertight Walls           | Analysed | 106             |
| 11BLOCK-Interior Masonary Walls | Analysed | 2               |
| W-72 - Manhole and Footings     | Analysed | 3               |
| Other Tests                     | Skipped  | N/A             |
| Charts                          | Skipped  | N/A             |

## Result Summary

The following tables list the sets of tests whose results are not optimal.

### Missing Data

*Sets missing past test data*

| Mix Name & Desc.                | Sets   |
|---------------------------------|--|
| W1 - Watertight Concrete        | 9, 10, 15, 16, 17, 18, 19, 21, 30, 31, + 16 more |
| W2 - Exterior Structural        | 25, 27, 28, 29, 41, 44, 55, 65, 67, 91, 116      |
| W3-Interior Structural          | 185, 186, 187                                    |
| W4 - Large Manhole Outfall      | 22   |
| W5 - Lean Concrete              | 115, 127, 128, 130                               |
| W6 - Watertight Walls           | 4, 5, 32, 33, 34, 35, 36, 48, 50, 51, + 83 more  |
| 11BLOCK-Interior Masonary Walls | 115, 127   |
| W-72 - Manhole and Footings     | 38   |

### Testing day != str. req. day

*Sets where proposed test days don't match up with the req. strength days*

| Mix Name & Desc.         | Sets                               |
|--------------------------|------------------------------------|
| W1 - Watertight Concrete | 76, 83                             |
| W2 - Exterior Structural | 39, 40, 42, 43, 45, 46, 57, 59, 63 |
| W3-Interior Structural   | 74                                 |
| W6 - Watertight Walls    | 37, 49, 79, 88, 99, 104, 108       |

## Sheet Summary

The following tables list the summary of tests by sheet

### W1 - Watertight Concrete

*Summary for W1 - Watertight Concrete: 35 MPa @ 56 days*

| Status                       | # of sets | Remarks  |
|------------------------------|-----------|--|
| Passed                       | 8         | Str. requirements met  |
| Failed                       | 0         | Str. requirements not met                                    |
| Missing Data                 | 21        | Tests where scheduled test data missing                      |
| Testing day != str. req. day | 2         | Testing day do not match req. testing day from italics above |
| Future tests                 | 1         | These tests will be performed in future                      |

### W2 - Exterior Structural

*Summary for W2 - Exterior Structural Concrete: 35 MPa @ 28 days*

| Status                       | # of sets | Remarks  |
|------------------------------|-----------|--|
| Passed                       | 12        | Str. requirements met  |
| Failed                       | 0         | Str. requirements not met                                    |
| Missing Data                 | 11        | Tests where scheduled test data missing                      |
| Testing day != str. req. day | 9         | Testing day do not match req. testing day from italics above |
| Future tests                 | 0         | These tests will be performed in future                      |

### W3-Interior Structural

*Summary for W3 - Interior Structural Concrete: 35 MPa @ 28 days*

| Status                       | # of sets | Remarks  |
|------------------------------|-----------|--|
| Passed                       | 3         | Str. requirements met  |
| Failed                       | 0         | Str. requirements not met                                    |
| Missing Data                 | 3         | Tests where scheduled test data missing                      |
| Testing day != str. req. day | 1         | Testing day do not match req. testing day from italics above |
| Future tests                 | 0         | These tests will be performed in future                      |

### W4 - Large Manhole Outfall

*Summary for W4 - Large Manhole Outfall Concrete: 32 MPa @ 56 days*

| Status                       | # of sets | Remarks  |
|------------------------------|-----------|--|
| Passed                       | 0         | Str. requirements met  |
| Failed                       | 0         | Str. requirements not met                                    |
| Missing Data                 | 1         | Tests where scheduled test data missing                      |
| Testing day != str. req. day | 0         | Testing day do not match req. testing day from italics above |
| Future tests                 | 0         | These tests will be performed in future                      |

### W5 - Lean Concrete

*Summary for W5 - Lean Concrete: 15 MPa @ 56 days*

| Status                       | # of sets | Remarks  |
|------------------------------|-----------|--|
| Passed                       | 0         | Str. requirements met  |
| Failed                       | 0         | Str. requirements not met                                    |
| Missing Data                 | 4         | Tests where scheduled test data missing                      |
| Testing day != str. req. day | 0         | Testing day do not match req. testing day from italics above |
| Future tests                 | 0         | These tests will be performed in future                      |

## W6 - Watertight Walls

*Summary for W6 - Watertight Concrete - Bio Walls: 32 MPa @ 56 days*

| Status                       | # of sets | Remarks  |
|------------------------------|-----------|--|
| Passed                       | 11        | Str. requirements met  |
| Failed                       | 0         | Str. requirements not met                                    |
| Missing Data                 | 88        | Tests where scheduled test data missing                      |
| Testing day != str. req. day | 7         | Testing day do not match req. testing day from italics above |
| Future tests                 | 0         | These tests will be performed in future                      |

## 11BLOCK-Interior Masonry Walls

*Summary for 11BLOCK F - Masonary Walls: 25 MPa @ 56 days*

| Status                       | # of sets | Remarks  |
|------------------------------|-----------|--|
| Passed                       | 0         | Str. requirements met  |
| Failed                       | 0         | Str. requirements not met                                    |
| Missing Data                 | 2         | Tests where scheduled test data missing                      |
| Testing day != str. req. day | 0         | Testing day do not match req. testing day from italics above |
| Future tests                 | 0         | These tests will be performed in future                      |

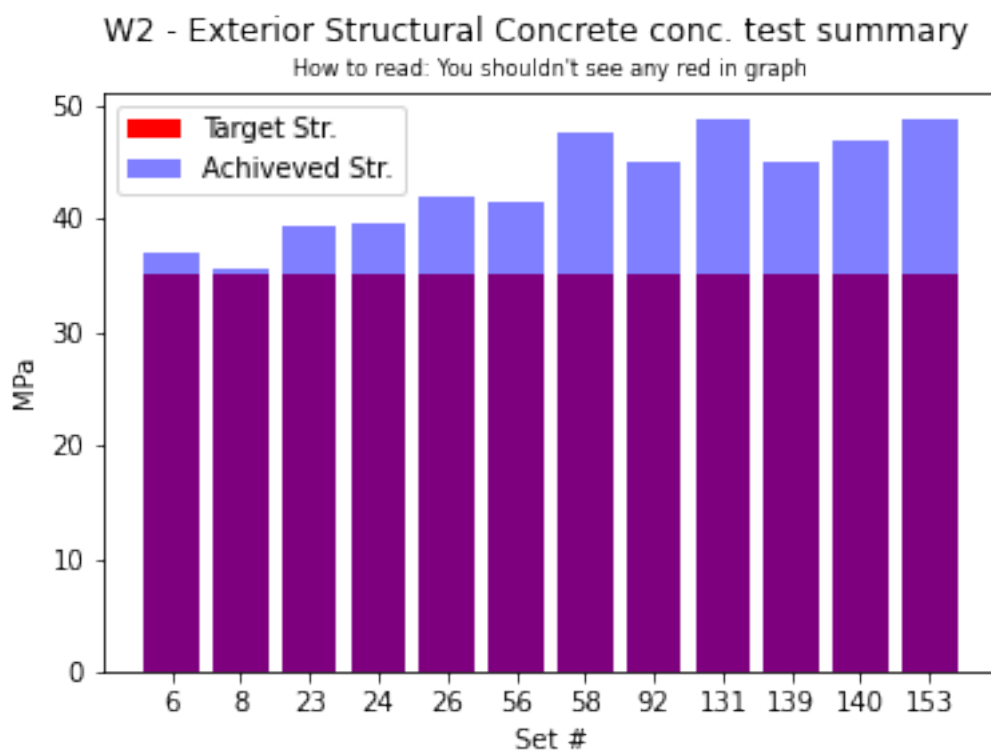
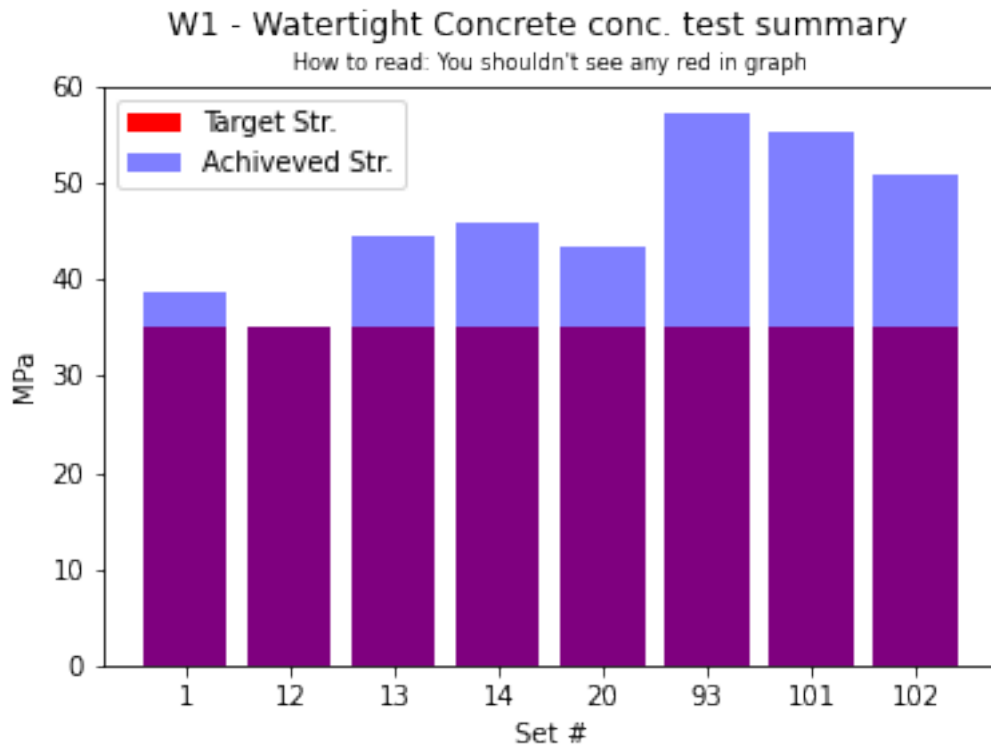
## W-72 - Manhole and Footings

*Summary for W-72 - Manhole and Footings: 25 MPa @ 56 days*

| Status                       | # of sets | Remarks  |
|------------------------------|-----------|--|
| Passed                       | 2         | Str. requirements met  |
| Failed                       | 0         | Str. requirements not met                                    |
| Missing Data                 | 1         | Tests where scheduled test data missing                      |
| Testing day != str. req. day | 0         | Testing day do not match req. testing day from italics above |
| Future tests                 | 0         | These tests will be performed in future                      |

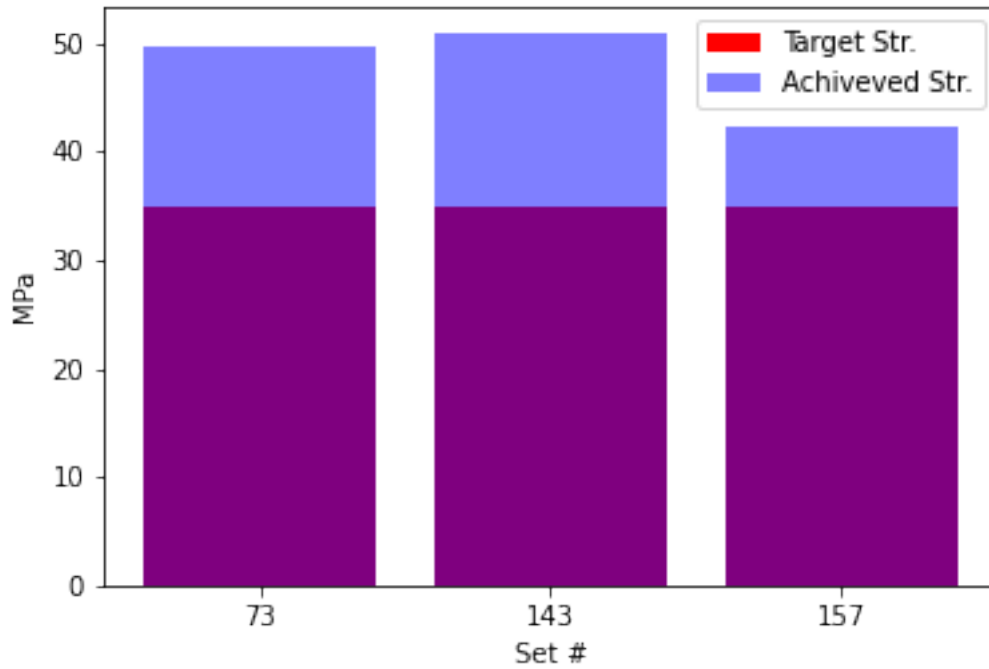
## Target strength vs Achived strength

The charts plot the target strengths vs achieved strengths.



## W3 - Interior Structural Concrete conc. test summary

How to read: You shouldn't see any red in graph



## W6 - Watertight Concrete - Bio Walls conc. test summary

How to read: You shouldn't see any red in graph

