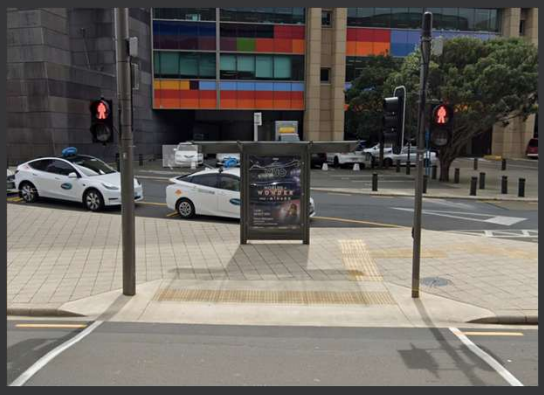
# Pole Assessment by Revo Group




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# WCC Traffic Signal Poles

- There are 1,229 Traffic Signal poles.
- No reliable asset age data.
- Majority of poles are placed in concrete pedestrian ramps / footpath.



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# WCC Streetlighting Poles



- There are 19,185 Streetlighting poles.
- Reliable asset age data.
- Various types of poles with a mix of installs in footpaths and grass berms.

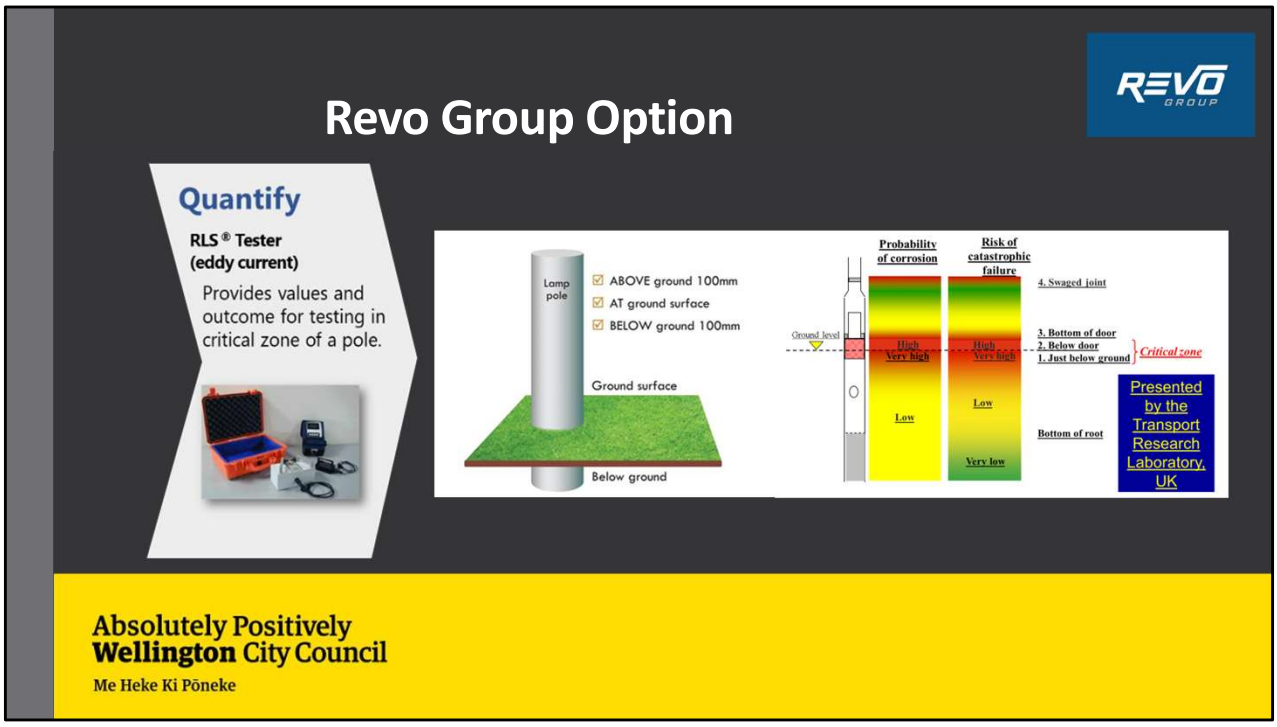
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# Pole assessment scoping & renewal plan

- Physical pole assessments can be costly and time consuming
- Relying on the pole age data for renewals has proven as not reliable given some of the impacting surrounding conditions
- Revo Group option provides an accurate, quick and non-invasive assessment – saving on budget and time



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As per the diagram, the main failure points of a pole is the ground level, 100mm above and below ground. The RLS tool has capacity to check the pole condition of upto 120mm above and below ground.

# Revo Group Option

**Quantify**

**RLS ® Tester (eddy current)**

Provides values and outcome for testing in critical zone of a pole.



**Record**

**Structural Lines (field mobility solution)**

Sophisticated field data capture with real time reporting and offline capability



- The RLS Meter is a non-destructive testing tool designed specifically to assess corrosion in steel poles, lighting columns, and similar tubular structures, especially around the ground line, which is where most failures occur.
- Uses electromagnetic/magnetic field to provide the data.

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## Process

- Non-invasive 4-point scan at the base of the pole
- Less than 5min per pole
- Observations and data uploaded to cloud
- GPS coordinates provided for each asset
- Can be linked to asset management program

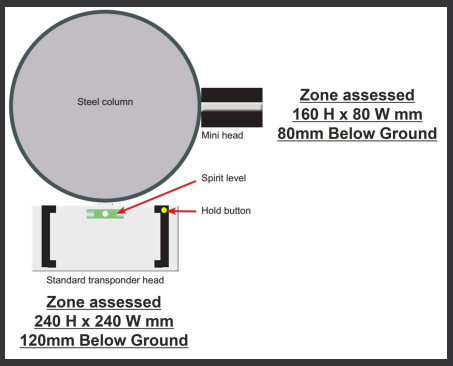


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Long story short, this option is far less time consuming, non invasive and is a 5th of the price which is why we are going ahead with the use of this tool.

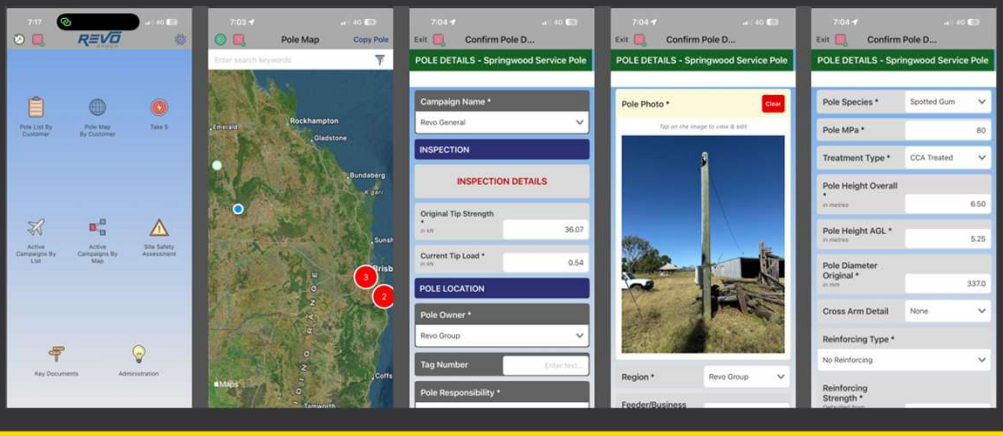
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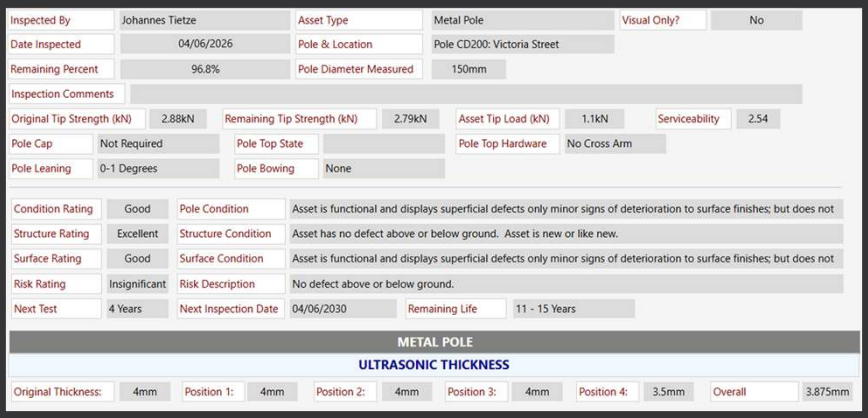
# Output




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This is the app which a technician would be using when assessing the poles. This later feeds into the report which can be linked to the asset.

# Output



| | | | | | |
|---|---|---|---|---|---|
| Inspected By | Johannes Tietze | Asset Type | Metal Pole | Visual Only? | No |
| Date Inspected | 04/06/2026 | Pole & Location | Pole CD200: Victoria Street | | |
| Remaining Percent | 96.8% | Pole Diameter Measured | 150mm | | |
| Inspection Comments | | | | | |
| Original Tip Strength (kN) | 2.88kN | Remaining Tip Strength (kN) | 2.79kN | Asset Tip Load (kN) | 1.1kN |
| Serviceability | 2.54 | | | | |
| Pole Cap | Not Required | Pole Top State | | Pole Top Hardware | No Cross Arm |
| Pole Leaning | 0-1 Degrees | Pole Bowing | None | | |

| | | | |
|---|---|---|---|
| Condition Rating | Good | Pole Condition | Asset is functional and displays superficial defects only minor signs of deterioration to surface finishes; but does not |
| Structure Rating | Excellent | Structure Condition | Asset has no defect above or below ground. Asset is new or like new. |
| Surface Rating | Good | Surface Condition | Asset is functional and displays superficial defects only minor signs of deterioration to surface finishes; but does not |
| Risk Rating | Insignificant | Risk Description | No defect above or below ground. |
| Next Test | 4 Years | Next Inspection Date | 04/06/2030 |
| Remaining Life | 11 - 15 Years | | |

**METAL POLE**

**ULTRASONIC THICKNESS**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Original Thickness: | 4mm | Position 1: | 4mm | Position 2: | 4mm | Position 3: | 4mm | Position 4: | 3.5mm | Overall | 3.875mm |

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This is an example of the report produced. Our key takeway is the remaining life section as this give us a more accurate and upto date lifespan.




Some background information regarding the Revo group




Contact details if you want to reach out to Revo Group.

**Nga mihi Nui**

Thank you

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