



**VAN ELLE**

TOTAL FOUNDATION SOLUTIONS

## Van Elle Ltd – Geotechnical Techniques

- ❖ **Geotechnical Services**
  - Vetrak Restricted Access Cable Percussive Rig
  - Cable Percussive and Rotary Boreholes
  - Window Sampling and Dynamic Probing
  - Environmental Drilling
  - Insitu Testing and Sampling
  - Laboratory Testing
  - Noise and Vibration Monitoring
  - Insitu Monitoring and Instrumentation
  - Pile Testing (static, dynamic & integrity)
  - Geothermal Borehole Installation
  
- ❖ **Restricted Access Piling**
  - **Driven Piles**
    - Steel Cased Driven – 75mm to 323mm diameter
    - Vemch Precast Concrete Piles – 150mm or 200mm square
    - Circular Hollow Section (CHS)
  - **Drilled Piles**
    - Rotary Auger Bored Piles – up to 1000mm diameter
    - Sectional Flight Auger (SFA) - up to 750mm diameter
    - Rotary Percussive – up to 600mm
    - Duplex Rotary Percussive – up to 660mm diameter casing and 600mm diameter socket
    - Odex Rotary Percussive – up to 275mm diameter
    - Screw piles
    - Drilled Hollow Threaded Bar Systems
    - Geothermal Piles
  
- ❖ **Open Site Piling**
  - **Driven Piles**
    - Precast Concrete – 200mm to 350mm square
    - Steel Tube
    - Steel H-Section
    - Bottom Driven thin Wall Steel
  - **Drilled Piles**
    - Odex Rotary Percussive – up to 275mm diameter
  - **Augered Piles**
    - Continuous Flight Auger (CFA) – 300mm to 1050mm diameter
    - Contiguous and Secant Piled retaining Walls – up to 1050mm diameter
    - Bored Piles
    - Auger Displacement – up to 450mm diameter
    - Geothermal Piles
  
- ❖ **Ground Stabilisation**
  - Drilling and Grouting – investigation and subsequent consolidation
  - Ground Anchors – temporary and permanent bar, strand and self-drilling
  - Soil Nails – temporary and permanent bar, strand and self-drilling
  - Soil Mixing
  
- ❖ **Smartfoot® Precast Modular Foundations**
  - Uniquely installed with or without piles
  - Fast/Safe
  - Cost-effective
  - Sustainable
  - No waste/reduced excavation
  
- ❖ **Subsidence Repair**
  - Piled Rafts/Needle Beams
  - Hoopsafe® Structural Stabilisation System
  - Brickbeam® Structural Stabilisation System
  - Compaction Grouting and Void Grouting Beneath Floor Slabs
  - Jackdown Piling
  - Jacking Up and Levelling of Structures

