In addition to analysis, design, and other pile testing and monitoring, PND is pleased to announce the addition of the Pile Driving Analyzer® (PDA) system with the Case Pile Wave Analysis Program (CAPWAP®) to their list of non-destructive testing (NDT) capabilities. The PDA technology is the most prevalent system for Dynamic Load Testing and Pile Driving Monitoring. The High Strain Dynamic Load Tests, referred to as PDA tests, assess the capacity, integrity, and driving stresses during the installation of driven piles. Further monitoring of hammer energy and efficiency can be made during driving. All testing procedures follow ASTM D4945 Standard Test Method for High-Strain Dynamic Testing of Deep Foundations.

Our trained engineers can perform this work on both test and production piles, utilizing the high strain impact provided by either an impact hammer or a drop weight. Piles can be steel, concrete, or timber with sensors temporarily attached to the pile which allow for monitoring during driving and collecting data real time. The real time collection of data allows for more efficient field direction during pile installation. PND has successfully used PDA and CAPWAP analysis in on- and off-shore capacities including a recent job in the remote Canadian Arctic.