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Resistsograph of Chatham Scarlet Oak

Target

One 50 Inch DBH Scarlet Oak In center of field between Chatham Borough Hall and Chatham Train Station.

Material

Calibrated DBH measuring tape and calibrated 15" Resistograph machine.

Methods

First, the diameter of the tree was determined using standard Diameter at Breast Height (DBH) measurement. The DBH was calculated using a calibrated DBH measuring tape. The DBH of the Scarlet Oak was determined to be 50 inches.

Finally, the Resistograph machine was then used to determine the solidity of the outer 15 inches of the Oak's main stem. Tests were taken with the machine facing North, South, East and West at approximately 36 inches above ground level as well as through root flare where visible decay was observed.

Results

Results of the Resistograph test strongly suggest that the Scarlet Oak is a viable candidate for long term care and preservation. The tree is no less than 46% and no more than 84% intact. This makes the statistical assumption based on the results about 65% intact. The average void (hollow / decay) space acceptable in oaks ranges from 50% - 60%, therefore the tree is within the acceptable range of safety.

Conclusion

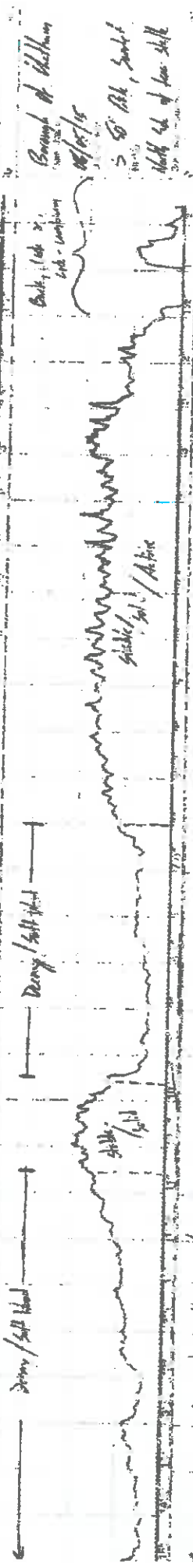
In general the tree appears to be in general good health and is a definite candidate for long term care an preservation. The most compromised section is the west northwest section, however this appears to be very isolated. The majority of the tree appears to be intact and at least stabile. Some decay is present in the roots on the west northwest section and should be watched. Recommendations would include crown cleaning and restoration pruning, fall fertilization, root stimulation, and growth regulation.

James Houck

ISA Certified Arborist



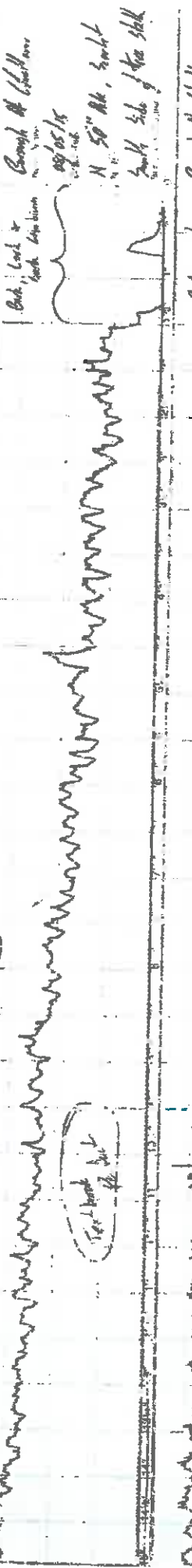
Both ends of Borough of Charleston
 05/05/15
 W 50° N 50° NE side
 West side of tree cut line



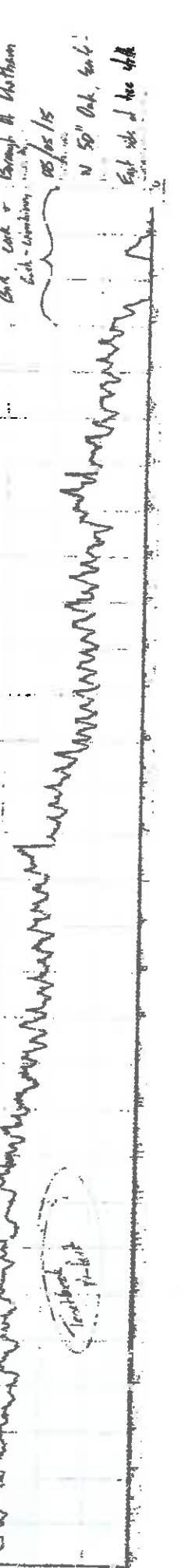
Borough of Charleston
 05/05/15
 S 50° NE, South
 West side of tree cut line



Borough of Charleston
 05/05/15
 E 50° NE, South
 West side of tree cut line



Borough of Charleston
 05/05/15
 N 50° NE, South
 West side of tree cut line



Borough of Charleston
 05/05/15
 W 50° NE, South
 East side of tree cut line