

## Washington State Report Questions on NDT Testing

1. What NDT testing methods for concrete materials, concrete pavements, and overlays are you trying?

NDT test methods used by WSDOT include the MIT Scan, MIT Scan T2 and maturity testing. The MIT Scan has been used for forensic work. The MIT Scan T2 was demonstrated to WSDOT as a result of a FHWA Mobile Concrete Lab project. Maturity testing is a routine specification for both pavement reconstruction and rehabilitation.

2. In your experience, how does the reliability of NDT testing methods compare to traditional testing methods?

MIT Scan measurements were not verified. MIT ScanT2 results are noted below. Results were excellent.

| Core | Panel Station ID | Average Thickness using MITSCAN T2 (mm) | Average Core Thickness (mm) | Difference (mm) |
|------|------------------|---|-----------------------------|-----------------|
| 1    | 164+69           | 226.8                                   | 225.2                       | 1.6             |
| 2    | 163+35           | 223.8                                   | 221.7                       | 2.1             |
| 3    | 162+90           | 242.9                                   | 244.0                       | -1.1            |
| 4    | 162+45           | 239.3                                   | 238.1                       | 1.2             |
| 5    | 162+15 *         | 249.8                                   | 245.6                       | 4.2             |
| 6    | 161+85           | 232.0                                   | 232.7                       | -0.7            |

Maturity testing requires field verification. Contractors are normally able to verify calibrated mix design.