Federal Aviation Administration – William J. Hughes Technical Center

National Airport Pavement Test Facility (NAPTF)

Contract No: DTFACT-15-D-00007

TO 003 Nondestructive Airport Pavement Testing Support

5.1.63 Continuation of NAPTF Construction Cycle Support – CC9 (4.1.10.19a)

CC9 NDT Survey Notes

Device: GPR – Cart

Survey: Weekly Trafficking 20210614

Date: 06/17/2021

Operators: Steve Augustyn

Folder Name: 20210617 GPR Cart CC9 Weekly Raw Data

File Format: DZT

**General Notes**

* Data collected along the ten (10) Standard Transverse Test Lines at Stations.
* Cart is aligned with white transverse line and direction of travel is from Offset -26.66 ft. to +26.66 ft. (North to South).
* Survey starts and stops with the antenna centered on the yellow longitudinal edge of test area lines.
* Data collected with 900 MHz and 2.6 GHz ground-coupled antennas.
* Calibration of DMI performed before data collection with each antenna and value recorded.

**Settings**

Parameter 900 MHz Antenna 2.6 GHz Antenna

Transmit Rate 100 KHz 100 KHz

Samples/Scan 512 512

Bits/Sample 16 16

Range 15 ns 8 ns

Dielectric 4.00 (default) 4.00 (default)

Rate (Scans/Second) 100 (default) 100 (default)

Scans/Unit 30 scans/ft. 90 scans/ft.

Gain Points 3 2

Vertical Low Pass – LPIIR 2500 MHz 0

Vertical High Pass – HPIIR 225 MHz 10 MHz

Vertical Low Pass – LPFIR 0 5000 MHz

Vertical High Pass – HPFIR 0 400 MHz

**DMI Calibration**

Distance 900 MHz Antenna 2.6 GHz Antenna

10.00 ft. -497.40 -492.20

**Data Collection File Numbers**

Location 900 MHz Antenna 2.6 GHz Antenna

Station 0+15 LFS-1 198 188

Station 0+30 LFS-1 199 189

Station 0+75 LFS-2 200 190

Station 0+90 LFS-2 201 191

Station 1+35 LFC-3 202 192

Station 1+50 LFC-3 203 193

Station 1+95 LFC-4 204 194

Station 2+10 LFC-4 205 195

Station 2+55 LFC-5 206 196

Station 2+70 LFC-5 001 197

**Survey Notes**

* 900 MHz and 2.6 GHz data does not seem as defined as previous data collections when viewed on the SIR-3000 display. Will require troubleshooting with GSSI.
  + Requires visual comparison to be done between older and newer data.
* Compact Flash disc ran out of space on the station 2+70 run with the 900 MHz antenna. The data was backed up to the NDT team external drive and on GDIT’s replacement for the P drive. It will be placed on the G Drive as well in the future.
  + This is why the files restart their numbering, beginning at 001.