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Subject: ERA23FA238 Toxicology Report

A toxicology report was received from the NTSB Medical Officer, dated 5/1/2025 regarding the accident of N272S. The following is an excerpt from the report received.

"Postmortem toxicological testing by the FAA Forensic Sciences laboratory detected delta-9-tetrahydrocannabinol (delta-9-THC) at 9.8 ng/mL in heart blood and at 1.8 ng/mL in urine, 11-hydroxy-tetrahydrocannabinol (11-hydroxy-THC) at 1.5 ng/mL in heart blood and at 10.8 ng/mL in urine, and carboxy-delta-9-tetrahydrocannabinol (carboxy-delta-9-THC) at 29.1 ng/mL in heart blood and at 185.6 ng/mL in urine.

Delta-9-THC and metabolites - Delta-9-THC is the primary psychoactive chemical in cannabis, including marijuana, hashish, and other cannabis products such as extracts and edibles. 11-hydroxy-THC and carboxy-delta-9-THC are metabolites of delta-9-THC. Cannabis may be inhaled or ingested recreationally by users seeking mind-altering effects. It may also be used to treat symptoms of various medical conditions. Psychoactive effects of cannabis vary depending on the user, dose, and route of administration, and may impair motor coordination, reaction time, decision making, problem solving, and vigilance. A person's instantaneous blood concentration of delta-9-THC does not directly predict that person's impairment. Additional challenges exist to interpreting delta-9-THC concentrations measured in postmortem blood specimens, as such concentrations may vary from antemortem values. Marijuana is a federal Schedule I controlled

substance, and the FAA considers its use by pilots unacceptable, regardless of state laws.

The postmortem concentrations of delta-9-THC and its metabolites indicate that the pilot had used a cannabis product and may have been experiencing associated impairing effects at the time of the accident. However, the precise timing of last cannabis use, and whether significant impairment was present, cannot be determined from the toxicological evidence alone. "