



Smithsonian Institution  
National Museum of Natural History

Joshua Cawthra  
National Transportation Safety Board  
[REDACTED]  
Federal Way, Washington, 98003  
[REDACTED]

14 March 2019

RE: Smithsonian Feather Lab Case #190312.34; WPR19LA058

**FINAL REPORT**

Dear Mr. Cawthra,

Feather samples that were collected adjacent to the accident site (WPR19LA058) outside of Colusa, California were received on 12 March 2019.

The feathers were in very good condition and have been identified, using microscopy and whole feather comparisons with museum specimens, as Northern Shoveler (*Anas clypeata*). The average weight of this duck is 1.3 lbs. (610 g).

Good luck with this investigation, let us know if you have any questions.

Sincerely,

[REDACTED]

Carla J. Dove, Ph.D.  
Feather Identification Lab  
Smithsonian Institution  
NHB E-600, MRC 116