



August 4, 2021

JASON SCHUMAN
CENTRAL AG LLC
860 EAST 1ST STREET
CORSICA SD 57328

RE: Crop Duster Plane Accident Near Carroll, Iowa; Clean Up Required
Iowa DNR Field Office Incident No. 071321-CMA-0730
Iowa DNR Contaminated Sites No. 2666

Dear Mr. Schuman,

On July 13, 2021, the Iowa DNR Field Office 4 was notified of an incident involving an airplane operated by Central Ag LLC near Carroll, Iowa. The plane experienced mechanical issues and was forced to discharge a load of water mixed with agricultural chemicals before landing in a farm field. The chemical/water mix landed primarily on property owned by John Nepple at 21842 Mahogany Ave. DNR Field Office 4 responded to the scene and collected both soil and surface water samples. A sample collected from the pond on Mr. Nepple's property indicated elevated levels of the chemicals Chlorpyrifos and Bifentrin. Significant impact was noted to the aquatic community in the pond.

The Iowa Department of Natural Resources (Iowa DNR) has reviewed available information for evidence suggesting the existence of a hazardous condition (as defined in 567 Iowa Administrative Code (IAC) Chapter 131).

Under the Authority of IAC 567-131 *Notifications of Hazardous Conditions*, and IAC 567-133 *Rules for Determining Cleanup Actions and Responsible Parties*, further environmental investigation will be required. IAC 567-133.4(3) states:

"Significant risk. In cases of significant risk, the following investigatory and remedial measures shall be implemented: a. Investigation. The responsible party shall determine the extent and levels of contamination through a site assessment conducted under the supervision of a registered professional engineer, an expert in the field of hydrogeology, or other qualified person."

Two main areas of potential contamination exist at the site; a broader area near the Nepple residence where the jettisoned chemical mixture fell, and a more localized area south of 220th St., where the aircraft came to rest after a forced landing.

DNR has been made aware that significant soil remediation has already taken place near the Nepple residence, thus, *additional site work at this location shall be directed toward ensuring that cleanup of agricultural chemicals has been completed to pre-incident levels*

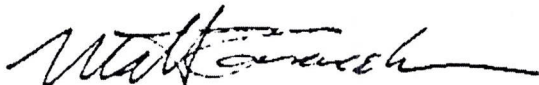
and mitigating risk to human health and the environment to the maximum extent possible. Additional site work in the vicinity of the crash landing shall include sampling to assess the level of fuel, oil, and other contaminants remaining at the site.

The required report should be completed by a qualified environmental scientist and submitted to Iowa DNR Contaminated Sites within 60 days, and shall include the following information:

- An overview of the incident and completed remedial activities.
- Sampling of soils near the Nepple pond, where the bulk of the chemicals are believed to have fallen. These samples shall be tested for agricultural chemicals of concern.
- Sediment samples taken from the bottom of the pond. These samples shall be tested for agricultural chemicals of concern.
- A groundwater sample from the nearby well, used for cattle watering, owned by Mr. Simons. This sample shall be tested for agricultural chemicals of concern.
- A surface water sample from the Nepple pond. This sample shall be tested for agricultural chemicals of concern.
- Appropriate sampling in the area of the plane crash to assess the success of remediation for fuel and oil leakage. These samples shall be tested for Iowa OA-1 and OA-2 compounds, as well as agricultural chemicals of concern.
- An account of the final disposition of contaminated soils removed from the site during remediation efforts prior to the environmental assessment required here.

If you have any questions or if we may be of further assistance please contact me at matthew.graesch@dnr.iowa.gov or by phone at (515) 725-8331. Thank you for your cooperation with this site.

Sincerely,



Matthew Graesch
Environmental Specialist
Land Quality Bureau

**Matthew
A Graesch** Digitally signed by
Matthew A Graesch
Date: 2021.08.10
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cc: Michael Sullivan, Iowa DNR Contaminated Sites Supervisor (email)
John Nepple, 21842 Mahogany Ave, Carroll, Iowa 51401
Dan Simons, 21656 Mahogany Av, Carroll, Iowa 51401
Ronald Juergens, 22224 220th St., Carroll, Iowa 51401
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