



**Clarks River NWR
Research & Monitoring Activity
Special Use Permit**
(For Official Use Only)

Permit Term:

Permittee Name/Business:

Permit Activity Type: Research - Sampling

Permit Activity Type (Other/Not Listed): [Activity Type - Other] **Permit Status:** Approved

If approved, provide special conditions (if any) in the text box below. If denied, provide justification below.

1. The permittee has collected soil samples and installed gas sampling wells within the footprint of the attached map, using a small 2.5 inch augur to install the gas analyzer and attach PVC chambers on trees to understand Methane gas fluxes in forests. Samples were removed and sample holes will be back-filled. In 2022, the permittee will install gas sampling wells within the footprint of the orange highlighted area on the attached map, using a small 2.5 inch augur to install the gas analyzer. Additionally, PVC chambers will be placed on trees and cypress knees to study gas releases. This study will examine gas releases, bulk density, particle size, loss on ignition (LOI), magnetics, pH and EC of soil as well as a chemical analysis and thin-section fabrication on up to five post oak and five cherrybark oak sites as well as five on Cypress and other species. Some tree species may be cored to determine age or other needed data. No other activities are authorized by this permit other than those specifically identified are authorized. Failure to comply with conditions of this permit may result in permit revocation and/or a Notice of Violation.
2. Permittee and their assistants agrees to hold the U.S. Government, including Clarks River NWR and its employees, harmless from any claim that might result from actions authorized by this permit such as accident, injury, property damage, etc. permittee assumes personal liability associated with removal and disposal of the structure to be removed.
3. A copy of the special use permit must be possessed by the permittee while conducting all activities.
4. Permittee must adhere to all refuge regulations contained in the refuge's most recent hunting regulations brochure.
5. Permittee will provide results and summary of findings to Clarks River NWR for refuge records within 6 months of permit expiration.
6. Collection of artifacts is not permitted.
7. If evidence of buried anthropogenic soils and/or cultural midden is encountered in a core, the permittee is to provide to the Refuge and the Regional Archaeologist information about the soil layer, i.e. GPS coordinates, approximate depth to soil/midden, and description of soil and any inclusions. Additional coring at this specific location will not be permitted.
8. If human skeletal remains are observed on the surface or in an erosional context, the permittee is to contact the Refuge Manager immediately. The Refuge's Federal Law Enforcement Officer will secure the location and notify the County Medical Examiner. The Refuge Manager will contact the Regional Archaeologist for assistance.
9. Paper and digital copies of the technical report are to be provided to the Refuge and the Regional Archaeologist when available.

1. Are there additional special conditions attached to the permit? Yes No N/A

2. Are other licenses/permits required, and have they been verified? Yes No N/A
3. Are insurance and/or certification(s) required, and have they been verified? Yes No N/A
4. Record of Payments: Full Partial Exempt
5. Is a surety bond or security deposit required? Yes No N/A

This permit is issued by the U.S. Fish and Wildlife Service and accepted by the applicant signed below, subject to the terms, covenants, obligations, and reservations, expressed or implied therein, and to the notice, conditions, and requirements included or attached. A copy of this permit should be kept on-hand so that it may be shown at any time to any refuge staff

Permit approved/issued by: (Signature and title)

Permit accepted by: (Signature of permittee)