



# FEDERAL FISH AND WILDLIFE PERMIT

2. AUTHORITY-STATUTES  
16 USC 1539(a)

REGULATIONS (Attached)  
50 CFR 17.22

50 CFR 13

3. NUMBER  
**TE040341-1** AMENDMENT

4. RENEWABLE  
 YES  
 NO

5. MAY COPY  
 YES  
 NO

6. EFFECTIVE  
07/09/2008

7. EXPIRES  
07/01/2011

1. PERMITTEE

WILLIAM CHARLES LARSEN

8. NAME AND TITLE OF PRINCIPAL OFFICER (If #1 is a business)

9. TYPE OF PERMIT  
ENDANGERED SPECIES

10. LOCATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED  
ON LANDS SPECIFIED WITHIN THE ATTACHED SPECIAL TERMS AND CONDITIONS

11. CONDITIONS AND AUTHORIZATIONS:

A. GENERAL CONDITIONS SET OUT IN SUBPART D OF 50 CFR 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTINUED VALIDITY, OR RENEWAL, OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIMELY COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUIRED INFORMATION AND REPORTS.

B. THE VALIDITY OF THIS PERMIT IS ALSO CONDITIONED UPON STRICT OBSERVANCE OF ALL APPLICABLE FOREIGN, STATE, LOCAL OR OTHER FEDERAL LAW.

C. VALID FOR USE BY PERMITTEE NAMED ABOVE.

D. Your permit is being renewed for a period of 3 years. The terms and conditions set forth in the original permit dated January 28, 2002 and any subsequent amendments or renewals are hereby superseded by this document.

E. Acceptance of this permit serves as evidence that Permittees agree to abide by the "General Conditions for Native Endangered and Threatened Wildlife Species Permits" (copy attached)

F. Acceptance of this permit serves as evidence that Permittees agree to abide by all conditions stated. Terms and conditions of this permit are inclusive. Any activity not specifically permitted is prohibited.

**NOTE: Some terms and conditions within this permit may have changed, either to reflect the most current language available or in response to requests by applicants or requirements by species' lead biologist(s). Please read through these conditions carefully as violations of permit terms and conditions could result in your permit being revoked or in not being issued a new permit when the current one expires.**

G. Disposal, transplant, or release of live wildlife/plants or plant parts taken or held under the terms of this permit,

ADDITIONAL CONDITIONS AND AUTHORIZATIONS ALSO APPLY

12. REPORTING REQUIREMENTS

ISSUED BY  
*Nancy J Roman*

TITLE *Acting*  
ARD - ECOLOGICAL SERVICES

DATE  
07/09/2008

unless specifically authorized, requires prior written approval by the species lead U.S. Fish and Wildlife Service (USFWS) office. You must dispose of dead wildlife/plants or plant parts as specified by the terms of this permit. If terms are not specified, they can be destroyed or transferred to a public institution. A copy of the permit and this letter, along with a cover letter referencing your permit number, must accompany each shipment and must be retained with the specimens. The cover letter must specify who will receive the specimens and the numbers involved. A copy of the letter must be furnished to the following addresses:

U.S. Fish and Wildlife Service  
Regional Office  
Division of Endangered Species - Section 10 Permits  
P.O. Box 1306 / Room 4102  
Albuquerque, New Mexico 87103  
505/248-6654 or 505/248-6920

Austin Ecological Services Field Office  
10711 Burnet Road, Suite 200  
Compass Bank Building  
Austin, Texas 78758  
512/490-0057

A copy should also be retained in your files. Transfers deviating from the above conditions require prior written approval by the USFWS.

H. *Unless otherwise instructed within the species-specific language below*, an **annual report** based on each species and activity conducted under the authority of this permit (including where activities took place, number and location of species collected/captured, and field data forms, if appropriate) must be submitted to the respective **Ecological Services Field Office (ESFO)** listed above, including negative data (i.e., negative survey findings or lack of breeding success). If no activities were conducted under this permit, for one or more species during the calendar year, a report stating such will satisfy the annual reporting requirements. The annual report should also include recovery permit number, species common and scientific name, date of survey, observer, observer contact information (in case of questions), location (provide GPS or UTM coordinates, or Township and Range and at least quarter Section), number of individuals observed, their sex, age class, and breeding condition, if known or determined in recovery permit report for all surveys conducted. If habitat quality/condition was noted at time of survey, please include that information. Annual reports may also be submitted on a CD. Failure to submit a report, or failure to submit an adequate report, is a violation of the permit and is cause for suspension or revocation of the permit. A violation may disqualify a person from receiving or exercising the privileges of a permit as long as the deficiency exists.

Data collected in lat/long, NAD 83 is preferred. If collected in an alternate coordinate system, please report the coordinate system and datum the information was collected in. Optional information that can be included to help further define the precision of the locational information includes: 1) Positional Dilution of Precision (PDOP) level at time of acquisition, and 2) whether the Wide Area Augmentation System (WAAS) was enabled.

I. An annual report transmittal letter is the only document to be submitted to the **Regional Office**, Division of Endangered Species - Section 10 Permits, Albuquerque, NM at the above address (or to the following electronic mailing address: **FW2\_TE\_Permits@fws.gov**) on or before December 15 of each year (unless date is otherwise stated). The transmittal letter should state the following information: name of field office(s) and name of species, where data was forwarded; date report(s) sent to field office; and list of species for which no activities were conducted, if applicable.

*If an amendment or renewal request is also needed at this time, please make sure the annual report transmittal*

*letter and request(s) are submitted under separate cover. Do not include permit requests along with annual reports.*

J. If applicable, hard copies of any unpublished or published reports generated by the study and other data that would be useful for the conservation or recovery of the species should also be submitted to the ESFO(s). The reports should include one copy of USGS 7.5 minute quad sheets or larger scale maps, depicting sites where listed species covered by this permit were found or not found.

K. Should any mortality occur to an individual of the species during permitted activities (above the amount that may be specified below for a specific species) all operations must immediately cease and you are required to contact the ESFO(s) above within 24 hours.

L. Please note that this permit is limited to the activities and species described below and is functional only when used in combination with a valid state permit.

M. Activities involving migratory birds and their parts (see 50 CFR 10, Migratory Bird Treaty Act (16 USC 703- et seq) and implementing Regulations at 50 CFR 21) or bald and golden eagles (see Bald and Golden Eagle Protection Act (16 USC 668a) and 50 CFR 22), may require additional permits or authorizations. Please contact the respective Regional Migratory Bird Permit Office for additional information at: <<<http://www.fws.gov>>>.

N. This permit does not, either directly or by implication, allow or grant right of trespass. Permission to enter lands must be obtained in writing from the landowner or land managing agency.

O. If conducting research on a National Wildlife Refuge, you must obtain a refuge special use permit. The refuge permit will need to be used in conjunction with this permit and a valid state permit in order to meet all applicable laws.

P. You must furnish the USFWS, Division of Endangered Species - Section 10 Permits (address above) with a copy of the permit issued to you by the Indian Tribal Government(s) prior to conducting research and recovery activities on Tribal lands.

Q. You must have a copy of this permit and any other pertinent information in your possession while conducting the authorized activities.

R. A request for **renewal**, if appropriate, must be submitted to the Division of Endangered Species - Section 10 Permits (at the above address) at least 30 days prior to the expiration date of the current permit. Any person holding a valid, renewable permit who submits a written request (application form 3-200-55) for renewal at least 30 days prior to the expiration date, may continue to conduct those activities under the expired permit while the USFWS takes action on such person's request for renewal.

All requests to renew, amend, or obtain a new permit will require submittal of an application. The application may be obtained by going to the following website: <<<http://forms.fws.gov/3-200-55.pdf>>>. Please submit this application and a cover letter describing your request to the attention of the Section 10 Coordinator located in the Regional Office. The address is listed under condition G above. If you wish to confirm your application request was received, please send your application via certified mail or Federal Express, or provide an e-mail address for electronic notification.

#### **TEXAS BLIND SALAMANDER**

S. William C. Larsen (Permittee) is authorized for scientific research and recovery purposes to conduct presence/absence surveys for the Texas blind salamander (*Eurycea rathbuni*) at Edwards Aquifer in Hays County,

Texas. The following conditions also apply:

1. Prior to testing, the Permittee must inform the Austin ESFO of any dye tracing to be performed within the Edwards Aquifer and its associated aquatic habitat in the Comal and San Marcos Springs area, including but not limited to: Hueco Springs, Fern Bank Springs, and the vicinity of the proposed Wonder World Drive Extension in San Marcos.
2. Permittee is authorized to collect one live Texas blind salamander if the locality is: 1) a new site/locality for the Texas blind salamander, or 2) a site that has not been collected since January 1, 2005.
3. Permittee is authorized to transport and transfer any live Texas blind salamander samples to the San Marcos National Fish Hatchery and Technology Center in San Marcos, Hays County, Texas.
4. Annual reports must include: name of the observer, location of the observation/collection, and any habitat conditions recorded of all sample sites. Annual reports must be mailed to the Austin ESFO (address above in section G). For questions regarding whether a site has been documented to have Texas blind salamanders since January 1, 2005, please contact the Austin ESFO at 512/490-0057 ext. 227.

### **KARST INVERTEBRATES**

T. William C. Larsen (Permittee) is authorized for scientific research and recovery purposes to conduct presence/absence surveys of, document and map locations of, and collect (for positive identification) no more than 10 voucher specimens per cave of each species of the following federally-listed species (listed under the Endangered Species Act), from locations in Travis, Williamson, Bexar, and surrounding Texas counties:

#### Bexar County

- Rhadine exilis* (ground beetle, no common name)
- Rhadine infernalis* (ground beetle, no common name)
- Batrissodes venyivi* (Helotes mold beetle)
- Texella cokendolpheri* (Cokendolpher Cave harvestman)
- Cicurina baronia* (Robber Baron Cave meshweaver)
- Cicurina madla* (Madla Cave meshweaver)
- Cicurina venii* (Bracken Bat Cave meshweaver)
- Cicurina vespera* (Government Canyon Bat Cave meshweaver)
- Neoleptoneta microps* (Government Canyon Bat Cave spider)

#### Travis & Williamson Counties

- Neoleptoneta myopica* (Tooth Cave spider)
- Texella reddelli* (Bee Creek Cave harvestman)
- Texella reyesi* (Bone Cave harvestman)
- Rhadine persephone* (Tooth Cave ground beetle)
- Texamaurops reddelli* (Kretschmarr Cave mold beetle)
- Batrissodes texanus* (Coffin Cave mold beetle)
- Tartarocreagris texana* (Tooth Cave pseudoscorpion)

1. **No collection** of listed species named above **from known sites** is authorized.
2. Permittee is **not** authorized to enter caves known to contain listed species unless a monitoring plan has been approved by the Austin ESFO.

Presence/absence survey methodology:

U. The following methodology is recommended to determine the presence/absence of listed karst invertebrates:

1. Number of sampling occasions: Survey all caves and significant features at least three times during suitable sampling conditions. Each survey should occur no sooner than one week apart during suitable sampling conditions. If all listed species known from that county and that Karst Fauna Region (KFR) as described by Veni (1992; 1994) are found, further surveys are not necessary to show presence/absence. Otherwise, at least three surveys should be conducted to demonstrate absence of species with a high degree of certainty.
2. Suitable sampling conditions: Survey during appropriate weather conditions. Appropriate weather conditions include average weather (temperature and rainfall) for time of year; surface air temperatures during the previous week no greater than 100 degrees Fahrenheit or less than 40 degrees Fahrenheit; lack of drought conditions; recent rain; and absence of recent flooding. Surveys should be conducted in Spring (March through June) or Fall (September through December). Ideally at least one sample should be conducted in each of the two seasons in order to observe species that may be more active or visible in one season or the other. Areas in a cave 300 m or more away from a cave entrance may be sampled any time of the year. For caves with multiple known entrances, these areas should be at least 300 m from *any* known entrance. Areas in a cave within 300 m of a cave entrance should only be sampled during both the appropriate time of year and under the appropriate weather conditions.
3. Sampling diligence and thoroughness: In general, search times should be proportional to the size of the cave. We recommend caves and features be searched for a minimum of 1 person-hour, longer in larger caves and features. For caves that have large volume rooms, it may be necessary to search using a system of transects or other method to ensure the entire cave is thoroughly searched. Do not count time spent mapping the cave, excavating, or conducting any activity other than surveys specifically for karst invertebrates in the minimum search time. Where applicable, the following should also be done:
  - a) Check under all loose and easily moveable rocks; rocks should be moved with care to ensure species are not injured. All rocks should be returned to their original position immediately after examination.
  - b) Check under clumps of dried, cracked sediment; these should also be moved with care and returned to their original position after examination. Look in crevices, on ceilings, and walls as much as logistically possible.
  - c) Sift samples of loose sediment and look on and in scat and dead animals. Small samples of these may be taken for later examination.
  - d) To the extent practicable, search all habitat types, not only those that are believed to be the preferred habitat of the listed species, because habitat profiles are incomplete. This will also provide information on habitat selection by the listed species.

Karst invertebrate survey reports:

V. These survey requirements will replace the annual reporting activities listed in section H above. The annual report should include, but is not limited to, the following items:

1. Personnel: Names of all persons involved in the surveys and their duties, and names of person(s) directly responsible for writing the report.
2. Location: Indicate location of caves and features surveyed and the property boundaries on either a USGS