



# FEDERAL FISH AND WILDLIFE PERMIT

2. AUTHORITY-STATUTES  
16 USC 1539(a)

REGULATIONS  
50 CFR 17.22

50 CFR 13

3. NUMBER  
**TE208531-1** AMENDMENT

4. RENEWABLE  
 YES  
 NO

5. MAY COPY  
 YES  
 NO

6. EFFECTIVE  
06/18/2010

7. EXPIRES  
08/01/2012

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

9. TYPE OF PERMIT  
NATIVE ENDANGERED SP. RECOVERY - E WILDLIFE

10. LOCATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED  
Within Texas

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 has been amended as follows. The terms and conditions set forth in the original permit dated July 9, 2009, and any subsequent amendments or renewals are hereby superseded by this document.

E. Acceptance of this permit serves as evidence that the Permittee agrees 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 the Permittee agrees to abide by all conditions stated. **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).** Terms and conditions of this permit are inclusive. Any activity not specifically permitted is prohibited. Please read through these conditions carefully as violations of permit terms and conditions could result in your permit being revoked or denial of a new permit when the current one expires. Violations of your permit terms and conditions which contribute to a violation of the Endangered Species Act (ESA) could also subject the Permittee to criminal or civil penalties.

ADDITIONAL CONDITIONS AND AUTHORIZATIONS ALSO APPLY

12. REPORTING REQUIREMENTS

See Terms and Conditions

ISSUED BY

TITLE

FORWARD - ECOLOGICAL SERVICES

DATE

06/18/2010

G. Disposal, transplant, or release of live wildlife/plants or plant parts taken or held under the terms of this permit, 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  
Albuquerque, New Mexico 87103  
505/248-6665 or 505/248-6920

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

San Marcos National Fish Hatchery  
500 East McCarty Lane  
San Marcos, Texas 78666  
512/353-0011

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](mailto: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. 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. These reports may be disclosed pursuant to the Freedom of Information Act.

K. Should any mortality or physical injury 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 Austin 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/permits/contacts/contacts.shtml>.

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.

## SALAMANDERS

S. Sarah J. Zappitello (Permittee) is authorized for scientific research and recovery purposes to conduct presence/absence surveys in previously **undocumented** locations only and to document and map new locations for the San Marcos salamander (*Eurycea nana*) and the Texas blind salamander (*Typhlomolge rathbuni*) within Texas. Permittee is to follow survey methods developed by Nelson (1993). The following permit conditions also apply:

1. Permittee is authorized to collect (for positive species identification only) no more than 3 adult voucher specimens (each) of the San Marcos salamander and the Texas blind salamander. Voucher specimens of all species must be collected from previously undocumented locations.
2. Annual reporting requirements: 1) precise locations of previously undocumented surveyed areas, identified on either a USGS topographic map (7.5 minute or larger scale) or on a GIS (Geographic Information System) layer with reference layers such as roads, political boundaries, and Digital Ortho Quarter Quads (DOQQs), 2) location of surveyed areas with negative results, 3) date of survey attempts of all surveys conducted, 4) survey/collection methods used, 5) survey results (both positive and negative) including the number of all neotenic salamander species observed during each survey attempt at each location 6) results of any species identification performed by a taxonomist, 7) the number of salamanders from each site transferred to another location for species identification, 8) the number of salamanders handled at each site, and 9) any observations of abnormal behavior or condition of salamanders observed or captured.
3. Salamander specimens may be transferred to other locations for species identification; however, locations must be approved by the Austin ESFO (512/490-0057) prior to such a transfer.
4. Information (such as the number and species of observed, dates and times of survey attempts, and the behavior and condition of salamanders observed) for unlisted neotenic salamanders is appreciated, but not required.
5. Because permitted activities are restricted to previously undocumented locations, the Permittee should research information on documented locations prior to surveying. Sources for some information on documented localities include, but are not limited to, the San Marcos and Comal Springs and Associated Aquatic Ecosystems (revised) Recovery Plan (USFWS 1996) for the San Marcos and Texas blind salamanders, and information from the Texas Parks and Wildlife Department and the Austin ESFO (512-490-0057).
6. No surveys will be conducted within the following locations, unless a study plan outlining work to be done in these areas has been submitted to and approved by Austin ESFO: Barton Springs complex (including Upper Barton Springs, Barton Springs swimming pool, Eliza Springs, and Sunken Garden Springs); springs encompassed by Spring Lake and the San Marcos River from the Spring Lake Dam to the University Street bridge; the artesian well on the campus of Texas State University; or any cave locations known to contain the Texas blind salamander
7. Permittee is not authorized to capture, handle, and/or mark any federally-listed *Eurycea* species for purposes other than positive species identification as described in S.1 unless a study plan outlining all the work that will be done has been submitted to and approved by the Austin ESFO.
8. Cave clothing and equipment will be thoroughly cleaned between visits and all nets and capture equipment (if appropriate and approved through the approval of a study plan) will be site-dedicated to ensure that pathogens are not introduced to new sites.
9. San Marcos salamander and Texas blind salamander voucher specimens will be delivered with precise locality

information within 30 days of collection for species determination to either: (a) Dr. Andrew Price, TPWD - Austin (512/912-7022); or (b) Patrick Connor, USFWS-Austin (512-490-0057 ext. 227).

10. Prior to any surveys for the San Marcos salamander on the upper San Marcos River below University Drive, Permittee must coordinate with the Austin ESFO.

### **COMAL SPRINGS DRYOPID BEETLE, COMAL SPRINGS RIFFLE BEETLE, and PECK'S CAVE AMPHIPOD**

T. Sarah J. Zappitello (Permittee) is authorized for scientific research and recovery purposes to conduct presence/absence surveys from previously **undocumented** locations (unless a study plan has been approved in writing by Austin ESFO), document and map locations of, and collect voucher specimens (for positive identification) of the Peck's Cave amphipod (*Stygobromus pecki*), Comal Springs dryopid beetle (*Stygoparnus comalensis*), and Comal Springs riffle beetle (*Heterelmis comalensis*). The following permit conditions also apply:

1. The Permittee is authorized to collect no more than 4 voucher specimens of the Peck's Cave amphipod per location per calendar year, no more than 2 voucher specimens of the Comal Springs dryopid beetle per location per calendar year, and no more than 2 voucher specimens of the Comal Springs riffle beetle per location per calendar year. Voucher specimens of all species must be collected from previously **undocumented** locations such as springs, spring runs, caves, or wells. Specimens must be preserved in 70-90 percent ethanol (without the use of formalin).
2. Authorization of research and/or recovery activities for these species beyond that listed in this permit is contingent upon prior written approval from the Austin ESFO for each proposed project. Proposals must be submitted in writing to the Austin ESFO (address above in section G).
3. Live specimens, collected at levels above authorized voucher total given above, of Peck's Cave amphipod, Comal Springs dryopid beetle, and Comal Springs riffle beetle shall be kept in spring water and taken to the San Marcos National Fish Hatchery and Technology Center (Monday - Friday, 8:00 am - 4:00 pm) as soon as practical. If possible, contact them by phone (512/353-0011) prior to bringing live material.
4. Annual report will include: (1) precise locations of areas surveyed identified on either a USGS topographic map (7.5 minute or larger scale) or on a GIS (Geographic Information System) layer with reference layers such as roads, political boundaries, and Digital Ortho Quarter Quads (DOQQs) with survey results (**both positive and negative**) including number and species of individuals observed, (2) survey/collection methods used, (3) the number and species of invertebrates handled and collected as voucher specimens, (4) dates and times of survey attempts, (5) information on where each voucher specimen was deposited, and (6) results of any species identification performed by a taxonomist.

### **KARST INVERTEBRATES**

U. Sarah J. Zappitello (Permittee) is authorized for scientific research and recovery purposes to conduct presence/absence surveys, document and map locations of, and collect (for positive identification) a combined total of no more than 10 voucher specimens of the following federally-listed species from Travis, Williamson, and Bexar Counties from locations not previously known to contain them.

The 10 voucher limit is a combined total under this permit, annually.

#### Bexar County

*Rhadine exilis* (ground beetle, no common name)

*Rhadine infernalis* (ground beetle, no common name)  
*Batrisodes 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

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

The following conditions also apply:

1. No collection of listed species from known sites is authorized.
2. Methodology and reporting must follow the attached: USFWS Section 10(a)(1)(A) Scientific Permit Requirements for Conducting Presence/Absence Surveys for Endangered Karst Invertebrates in Central Texas (March 8, 2006 version). This document can be found at <http://www.fws.gov/southwest/es/Library>.
3. Permittee is **not** authorized to enter caves known to contain listed species unless a monitoring plan has been approved in writing by the Austin ESFO.

**UNLISTED SPECIES**

V. A permit from the USFWS is not currently required for Jollyville plateau salamander (*Eurycea tonkawae*), Cascade Caverns salamander (*Eurycea latitans*), or Texas salamander (*Eurycea neotenes*) as they are not listed as federally threatened or endangered species. However, information regarding this species would be helpful to the Austin ESFO and a copy of survey findings would be appreciated. Permittee is subject to all other local, state, and Federal laws.

\*\*\*End Permit TE208531-1\*\*\*