

SCIENTIFIC PERMIT NUMBER SPR-1010-166
IS HEREBY ISSUED TO:

Jean K. Krejca
Zara Environmental LLC

UNDER THE AUTHORITY OF CHAPTER 43, SUBCHAPTER C OF THE
TEXAS PARKS AND WILDLIFE CODE

The activities permitted by this document are to be carried out in accordance with the Texas Parks and Wildlife Code, the Rules and Regulations of the Texas Parks and Wildlife Commission, and all of the following provisions:

1. This permit may not be transferred, assigned or conveyed by the holder.
2. The issuance of this permit is not a guarantee that a subsequent permit or renewal of this permit will be granted.
3. Required information and data shall be maintained at the address of the permit holder and shall be available for inspection at the request of personnel of the Texas Parks and Wildlife Department during the active life of the permit.
4. Acceptance of this permit constitutes an acknowledgment and agreement that the holder will comply with all Rules, Regulations, Orders and Proclamations of the Texas Parks and Wildlife Commission issued in accordance with the law and the conditions precedent to the granting of this permit. Failure to comply with any and all provisions of this permit may result in enforcement action, including any criminal penalties authorized by the Parks and Wildlife Code.
5. This permit does not relieve the holder of the responsibility to obey all other local, county, state and federal laws while carrying out the authorized activities.

- ADDITIONAL PROVISIONS FOLLOW ON ATTACHED PAGES. -

Carter Smith
EXECUTIVE DIRECTOR
TEXAS PARKS AND WILDLIFE DEPARTMENT
Issued by:



Christopher Maldonado
Wildlife Permits Specialist



October 14, 2010
Effective date

6. This permit will expire at midnight, **October 14, 2013**.
7. The following individuals may conduct the activities authorized by this permit under the guidance of the permittee:

NONE

8. The following wildlife species in the specified quantities are authorized by this permit to be:

a. live-captured and taken as voucher specimens for scientific purposes.

Common name	Scientific Name	Quantity
Atlantic Rangia	<i>Dreissena polymorpha</i>	NTE 5 specimens / location
Bankclimber	<i>Dreissena polymorpha</i>	NTE 5 specimens / location
Bleufer	<i>Potamilius purpuratus</i>	NTE 5 specimens / location
Carolina Marshclam	<i>Polymesoda caroliniana</i>	NTE 5 specimens / location
Dark Falssemussel	<i>Mytilopsis leucophaeata</i>	NTE 5 specimens / location
Deertoe	<i>Truncilla truncate</i>	NTE 5 specimens / location
False spike	<i>Quadrula mitchelli</i>	NTE 1 specimen / location
Fawnsfoot	<i>Truncilla donociformis</i>	NTE 5 specimens / location
Flat Floater	<i>Anodonta suborbiculata</i>	NTE 5 specimens / location
Fragile Papershell	<i>Leptodea fragilis</i>	NTE 5 specimens / location
Giant Floater	<i>Anodonta grandis</i>	NTE 5 specimens / location
Golden Orb	<i>Quadrula aurea</i>	NTE 1 specimens / location
Lilliput	<i>Toxolasma parvum</i>	NTE 5 specimens / location
Little Spectaclecase	<i>Villosa lienosa</i>	NTE 5 specimens / location
Louisiana Fatmucket	<i>Lampsilis hydriana</i>	NTE 5 specimens / location
Louisiana Pigtoe	<i>Pleurobema ridellii</i>	NTE 1 specimen / location
Mapleleaf	<i>Quadrula quadrula</i>	NTE 5 specimens / location
Mexican Fawnsfoot	<i>Truncilla cognate</i>	NTE 1 specimen / location
Ouachita Rock-Pocketbook	<i>Arkansia wheeleri</i>	NTE 5 specimens / location
Paper Pondshell	<i>Anodonta imbecillis</i>	NTE 5 specimens / location
Pimpleback	<i>Quadrula pustulosa</i>	NTE 5 specimens / location
Pink Papershell	<i>Potamilius ohioensis</i>	NTE 5 specimens / location
Pistolgrip	<i>Tritogonia verrucosa</i>	NTE 5 specimens / location
Plain Pocketbook	<i>Lampsilis cardium</i>	NTE 5 specimens / location
Pond Mussel	<i>Ligumia subrostrata</i>	NTE 5 specimens / location
Pondhorn	<i>Unio merus tetralasmus</i>	NTE 5 specimens / location
Rio Grande Monkeyface	<i>Quadrula couchiana</i>	NTE 5 specimens / location
Rock-Pocketbook	<i>Arcidens confragosus</i>	NTE 5 specimens / location
Round Pearlshell	<i>Glebula rotundata</i>	NTE 5 specimens / location
Salina Mucket	<i>Potamilius metnecktayi</i>	NTE 1 specimen / location
Sandbank Pocketbook	<i>Lampsilis satura</i>	NTE 1 specimen / location
Smooth Pimpleback	<i>Quadrula houstonensis</i>	NTE 1 specimen / location
Southern Hickorynut	<i>Obovaria jacksoniana</i>	NTE 1 specimen / location
Southern Mapleleafs	<i>Quadrula apiculata</i>	NTE 5 specimens / location
Spike	<i>Elliptio dilatata</i>	NTE 5 specimens / location
Squawfoot	<i>Strophitus undulatus</i>	NTE 5 specimens / location
Tampico pearlymussels	<i>Cyrtoneias tampicoensis</i>	NTE 5 specimens / location
Tapered Pondhorn	<i>Unio merus declivis</i>	NTE 5 specimens / location
Texas Fatmucket	<i>Lampsilis bracteata</i>	NTE 1 specimen / location
Texas Fawnsfoot	<i>Truncilla macrodon</i>	NTE 1 specimen / location
Texas Heelsplitter	<i>Potamilius amphichaenus</i>	NTE 1 specimen / location
Texas Hornshell	<i>Popenaias popeii</i>	NTE 1 specimen / location
Texas Lilliput	<i>Toxolasma texasensis</i>	NTE 5 specimens / location
Texas Pigtoe	<i>Fusconaia askweii</i>	NTE 1 specimen / location
Texas Pimpleback	<i>Quadrula petrina</i>	NTE 1 specimen / location
Threehorn Wartyback	<i>Obliquaria reflexa</i>	NTE 5 specimens / location
Threeridge	<i>Amblemaplicata</i>	NTE 5 specimens / location

Triangle Pigtoe	<i>Fusconaia lananensis</i>	NTE 1 specimen / location
Wabash Pigtoe	<i>Fusconaia flava</i>	NTE 5 specimens / location
Wartyback	<i>Quadrula nodulata</i>	NTE 5 specimens / location
Washboard	<i>Megaloniaias nervosa</i>	NTE 5 specimens / location
Western Pimpleback	<i>Quadrula mortoni</i>	NTE 5 specimens / location
White Heelsplitter	<i>Lasmigona complanata</i>	NTE 5 specimens / location
Yellow Sandshell	<i>Lampsilis teres</i>	NTE 5 specimens / location
Zebra Mussel	<i>Dreissena polymorpha</i>	NTE 5 specimens / location

Excluding species listed by the Department as threatened or endangered, unless authorized above.

b. live-captured, brought to shore for identification, and released at exact site of collection in same orientation found for scientific purposes.

Common name	Scientific Name	Quantity
Freshwater Mussels		N.A.

Including species listed by the Department as threatened or endangered, unless authorized above.

c. received/possessed for salvage purposes, specimens found dead.

Common Name	Quantity
Mussel shells from dead mussels	N.A.

Including species listed by the Department as threatened or endangered, unless authorized above.

d. live-captured, relocate* to a more suitable habitat, GPS data recorded, marked using colored beads and rotary tool, and monitor.

Common name	Scientific Name	Quantity
Freshwater Mussels		N.A.

Including species listed by the Department as threatened or endangered, unless authorized above.

*Please contact TPWD before the relocation of any freshwater mussels.

9. The following means for taking or capture are authorized by this permit:
- Hand collection
 - Snorkeling, wading, walking shoreline, and SCUBA methods will be used to survey.
 - Live individuals will be collected in mesh sacks and brought to shoreline for identification.
10. The following locations for taking or capture are authorized by this permit:
- state of Texas.
 - See Appendix I for locations that are not authorized to collect wildlife

11. All specimens taken or salvaged shall be deposited with an appropriate collection of Zara Environmental, or otherwise disposed of in accordance with paragraph 13d of this permit.
12. All fish collection gear left unattended shall be clearly marked with permittee's name and permit number.
13. **PERMIT HOLDER IS REQUIRED TO:**
 - a. File a completed report form annually (provided on issuance of this permit), and any reports or publications based on data collected under authority of this permit, with the Texas Parks and Wildlife Department, Wildlife Permits Section, 4200 Smith School Rd., Austin, TX, 78744, no later than fourteen days following the anniversary date of the permit (or the expiration date if the permit is due for renewal).
YOUR PERMIT WILL NOT BE VALID UNLESS YOUR REPORT HAS BEEN RECEIVED.
 - b. Carry a copy of this permit at all times when exercising the provisions of this permit, which shall be subject to inspection by any authorized enforcement officer of the Department upon request.
 - c. Notify the Parks and Wildlife Department Law Enforcement Office(s) in the region(s) of your field activities by telephone not less than 24 hours nor more than 72 hours prior to collection if collection techniques or devices being used are ordinarily classified as illegal (i.e., hunting/collection along public roads and rights-of-way; shooting game animals at night by use of light; taking game species during closed seasons; using gill nets or electro-shocking devices to collect fish, etc.). **A confirmed response from the local game warden is required prior to collection if the sampling activities being conducted involve methods of capture ordinarily classified as illegal.** If the regional office(s) or telephone number(s) is unknown, the number(s) may be obtained at any time by calling a Parks and Wildlife Communication Center: Austin - (512) 389-4848; Houston - (281) 842-8100.
 - d. Dispose of protected wildlife taken under the authority of this permit in only one of the following ways:
 - (1). Kill and utilize by examination, experimentation, necropsy or dispose of as waste in accordance with state law and city or county regulations (burning is suggested if not in conflict with city, county or state regulations).
 - (2). Hold permanently for scientific or educational purposes, or donate to another educational display, scientific, or zoological permit holder authorized to receive such specimens, with required specimen donation form provided by the Department. A copy of the completed form must be submitted with the annual report.
 - (3). Release unharmed at collection site.
 - (4). Donate edible portions of game species to charitable organizations, public hospitals, orphanages or indigent persons. Arrangements for donations are the responsibility of the permit holder.
14. **PERMIT HOLDER IS PROHIBITED FROM:**
 - a. Selling or bartering specimens collected under the authority of this permit. Specimens may be donated to other permit holders by completing the receipt form enclosed with the permit.
 - b. Collecting on private premises without prior written consent of the owner or operator of the premises.
 - c. Collecting in a state park without prior written permission from Texas Parks and Wildlife Department Natural Resource Program: email: david.riskind@tpwd.state.tx.us

- d. Collecting in a wildlife management area without prior written permission from the area manager.
- e. Taking species listed by the department as threatened or endangered without express authority in paragraph 8 of this permit.

15. **ADDITIONAL PROVISIONS:**

a. No hunting or fishing license is required for permit holders or individuals listed in paragraph 7 while conducting the activities expressly authorized by this permit. Each listed individual should carry a copy of this permit during collection activities, and a letter of permission from the permittee if working independently.

b. **This permit is subject to any applicable federal permit requirements.** Where a federal permit is required, the permit holder is cautioned to carry a copy of the federal as well as the state permit during collecting activity. For information on the federal permit contact: U.S. Fish and Wildlife Service, PO Box 709, Albuquerque, NM, 87103-0709; (505)248-7882 or FW2_Birdpermits@fws.gov. Webpage address: <http://www.permits.fws.gov/>

16. PERMIT HOLDER'S ADDRESS FOR RECORDKEEPING PURPOSES:

Jean K. Krejca
Zara Environmental LLC
1707 W. FM 1626
Manchaca, TX 78652

APPENDIX I

- 1. Leon Creek in Pecos County
- 2. Springs and canals of Balmorhea in Reeves County
- 3. Dolan Creek in Val Verde County
- 4. Salt Creek in Culberson and Reeves County
- 5. San Marcos River upstream of its confluence with the Blanco River in Hays County
- 6. Comal River in Comal County
- 7. Clear Creek in Menard County
- 8. San Felipe Creek in Val Verde County
- 9. Sam Rayburn Reservoir in Angelina, Nacogdoches, Sabine, Jasper and San Augustine Counties
- 10. B.A. Steinhagen Reservoir in Jasper County