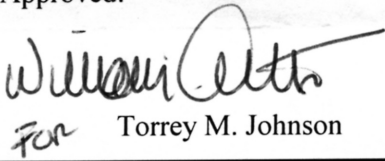


Florida Department of Environmental Protection  
Division of Recreation and Parks

Permit Number  
04210412

RESEARCH/COLLECTING PERMIT

This Permit Must Be Carried At All Times While Researching/Collecting

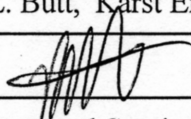
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                             |                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Names of Collectors:<br>Peter Butt, Tom Morris, James Brown,<br>Gerald Murphy, Mark Long, Dan Lins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Address:<br>5779 NE CR 340<br>High Springs, FL 32643                                                                                                        | Issue - Expiration Dates:<br>April 21, 2004 –<br>August 31, 2004 |
| Representing: Karst Environmental Services, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             |                                                                  |
| To Research/Collect: Release of groundwater tracer dye and collection of water samples for dye trace study                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                             |                                                                  |
| In the Following Areas: Madison Blue Spring State Park                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                             |                                                                  |
| <b>Special Conditions or Restrictions:</b> <ol style="list-style-type: none"><li>1. Contact the Park Manager, Kevin Jones, 386.362.2746, in advance of dive visits (3 days notice when possible), for coordination and arrangements.</li><li>2. Check in upon arrival at and departure from the site. Collected material is subject to inspection.</li><li>3. Provide names of additional divers to the park prior to their diving.</li><li>4. Collect only materials as stated above, in the quantities and manner indicated in the attached application form.</li><li>5. Any other applicable state and federal permits are the responsibility of the permittee.</li><li>6. Collected objects may not be sold, bartered, or traded.</li><li>7. Research reports concerning project data shall be submitted to the district biologist and the park by <b>September 30, 2004</b>. Incidental observations and species lists are also appreciated.</li><li>8. Collecting shall be conducted in such a manner as not to attract attention or cause damage to the environment.</li><li>9. The permit is non-transferable. At least one named collector (above) must be present.</li><li>10. The permittee and research associates will not be subject to park day-fees.</li><li>11. The permit is revocable.</li></ol> |                                                                                                                                                             |                                                                  |
| Approved:<br><br>for Torrey M. Johnson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Title: Chief, Bureau of Parks District 2<br>Division of Recreation and Parks<br>District 2 Administration<br>4801 SE 17th Street Gainesville, FL 32641-9299 | Phone: (352) 955-2135<br>Suncom: 625-2135<br>FAX: (352) 955-2139 |

cc: District Biologist  
Park Manager

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Division of Recreation and Parks (DRP)

## APPLICATION FOR RESEARCH/COLLECTING PERMIT

(Please Print or Type)

Applicant's Name Peter L. Butt, Karst Environmental Services, Inc. Date of Application 4 / 21 /04  
Applicant's Signature  Occupation Project Manager  
Affiliation Karst Environmental Services, Inc. (KES) performing services for the Suwannee River Water Management District  
Address 5779 NE County Road 340  
High Springs, FL 32643

Phones (386) 454-3556 (386) 454-2147 (386) 454-3541  
*Business Home FAX*  
Email kes@atlantic.net

**Additional Persons to be Authorized Under Permit:**

|      |                      |             |                             |
|------|----------------------|-------------|-----------------------------|
| Name | <u>Tom Morris</u>    | Affiliation | <u>KES Staff</u>            |
| Name | <u>Gerald Murphy</u> | Affiliation | <u>KES Staff</u>            |
| Name | <u>Mark Long</u>     | Affiliation | <u>KES Staff</u>            |
| Name | <u>Dan Lins</u>      | Affiliation | <u>Assisting Cave Diver</u> |

\*Other staff and divers will also be participating; all KES staff and divers will have a copy of any required permits with them.

Do you have a federal or other state agency permit for the proposed activity? Yes ☒ No ☐ if Yes, please attach a copy.

Have you previously had a DRP research/collecting permit? ☒ Yes ☐ No if Yes, give permit number. 03200312

List parks to be included in permit.

Madison Blue Spring Park and any other state lands that may have springs/sinks located on them, along the reach of the Withlacoochee River from just north of Highway 6 to the confluence with the Suwannee River.

Why is a state park/preserve proposed for this project?

It is the physical location of Madison Blue Spring, (the site requested by the SRWMD for a dye release as part of a groundwater tracer study) and other target springs and sinks along that area of the Withlacoochee River.

Describe/propose benefits to state park/preserve.

This project seeks to identify underground connections of the Downstream Blue Spring Cave system to other springs and features along that reach of the Withlacoochee River.

This project is being requested and funded by the SRWMD, as part of its Minimum Flows and Levels (MFL) study of the site, with all information collected to be in their public record. David Hornsby is the SRWMD contact for this project.

**Project Start Date** 4/20/04 (planning underway)

**Project End Date** 8/31/04

**Describe research/collecting needs and objectives (attach additional page if necessary). Append a copy of a research proposal if available.**

A groundwater tracer dye is to be released within the downstream Courtyard Passage of Blue Spring Cave. Water samples and emplaced charcoal samplers would be collected from various locations.

**Species/samples to be collected/studied (if taking is necessary, specify numbers requested and justify need for sample size).**

No animals or plants will be collected. Any water samples will typically be collected in vials of less than 250 ml in volume.

**Methodology (describe collecting/trapping/marketing methods)**

Background conditions will be checked with charcoal sampler packets and water samples. Scouting dives will be made to confirm access to the selected dye release location within the cave. A dive will be made to release the dye. After release of the dye, packets and water samples will be collected at scheduled intervals for at least one month. Sample analysis will be performed at a spectrofluorophotometer-equipped lab. Follow-up dives may be made into the cave to check post-release conditions, and dives will be made when after sample collection has ended to retrieve dye release devices from within the cave.

**Proposed disposition of collected specimens** n/a

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**Return to:** District 2 Administration, 4801 SE 17th Street, Gainesville, FL 32641-9299.

Phone (352) 955-2135 FAX (352) 955-2139

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**OFFICE USE ONLY:**

**Date Application Received** \_\_\_\_\_ **30 Day Review Due** \_\_\_\_\_

**Biologist Recommendation:** Approved \_\_\_\_\_ Denied \_\_\_\_\_

**Issue Date** \_\_\_\_\_ **Permit No.** \_\_\_\_\_

**Biologist Reviewer**

**Notification Method:** mailed / phoned / FAXed / e-mailed

FPS-R009 rev. 02/95

2/04 GM

Project Start Date 4/20/04 (planning underway) Project End Date 8/31/04

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Proposed disposition of collected specimens n/a

Return to: District 2 Administration, 4801 SE 17th Street, Gainesville, FL 32641-9299.

Phone (352) 955-2135 FAX (352) 955-2139

OFFICE USE ONLY:

Date Application Received 4/21/04 30 Day Review Due 5/21/04

Biologist Recommendation: Approved SR Denied \_\_\_\_\_

Issue Date 4/21/04 Permit No. 04210412

Biologist Reviewer [Signature]

Notification Method: mailed / phoned / FAXed / e-mailed

FPS-R009 rev. 02/95

2/04 GM