



THE UNIVERSITY OF  
SOUTHERN MISSISSIPPI

Department of Marine Science

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September 14, 2015

President Rodney D. Bennett, Box 5001

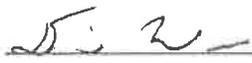
RE: Single source request to purchase Canberra Germanium Well Detector GCW 1522

The purpose of this letter is to provide a sole source justification for a Canberra Germanium Well Detector GCW 1522. The purchase of this instrument is necessary to complete all aspects of my research, in addition to allowing the lab to collaborate with numerous researchers outside of the University. Germanium well detectors are used to measure short-lived isotopes (e.g.,  $^{137}\text{CS}$ ,  $^{210}\text{PB}$ , and  $^7\text{Be}$ ), which are in turn used to date sediments and determine accumulation rates. They can be applied to sediment collected all over the world.

There are two companies that make these types of devices: Ortec and Canberra. However, the equivalent well-type devices manufactured by Ortec (attachment 1) do not have the same energy to absolute detection efficiency relationship as Canberra (attachment 2), meaning the Ortec devices will take longer to count samples in the lab to produce the same results. Therefore, I am requesting the Canberra Germanium Well Detector GCW 1522.

*The requestor signing below is aware of the state laws requiring competition and certifies they have factually and fairly determined the needs of the department. Further, they have diligently attempted to determine all potential sources for products or services that will meet the true needs of the department. Further, they are declaring the requested product or service to be sole source. Further, they understand that **any violation of the laws governing public procurement subject the agency head to criminal and civil penalties in accordance with Miss Code Ann. 31-7-55 and 31-7-57.** Finally, by signing below they are indicating their understanding that if it is found that the requestor has fraudulently signed this document, they may be subject to suspension or termination from their position at the University.*

Dr. Davin Wallace, Assistant Professor, Department of Marine Science

Signature:  Date: 9-14-15