

ORDER FOR SUPPLIES OR SERVICES

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

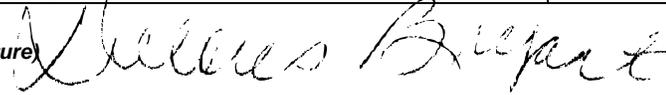
1. DATE OF ORDER 11/19/2009	2. CONTRACT NO. (If any) DTMA1A07011	6. SHIP TO: Dr. Carolyn Junemann		
3. ORDER NO. BPC1000001	4. REQUISITION/REFERENCE NO.	a. NAME OF CONSIGNEE DOT/Maritime Administration, MAR-820		
5. ISSUING OFFICE (Address correspondence to) DOT/MARITIME ADMINISTRATION 1200 New Jersey Ave., SE MAR380, W28-201 Washington DC 20590		b. STREET ADDRESS 1200 New Jersey Ave., SE MAR820, W28-201		
		c. CITY Washington	d. STATE DC	e. ZIP CODE 20590
7. TO: a. NAME OF CONTRACTOR Roberto Lianso		f. SHIP VIA		
b. COMPANY NAME VERSAR, INC.		8. TYPE OF ORDER		
c. STREET ADDRESS 6850 VERSAR CENTER		<input type="checkbox"/> a. PURCHASE REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.		
d. CITY SPRINGFIELD	e. STATE VA	f. ZIP CODE 22151-4196	<input type="checkbox"/> b. DELIVERY - Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
9. ACCOUNTING AND APPROPRIATION DATA - - 201070 - X176800 - - 15DS - - DSCP00 - 25404 - - - - -		10. REQUISITIONING OFFICE DOT/Maritime Administration, MAR-820		

11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT	
<input type="checkbox"/> a. SMALL	<input checked="" type="checkbox"/> b. OTHER THAN SMALL	<input type="checkbox"/> c. DISADVANTAGED	<input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED	Destination	
<input type="checkbox"/> d. WOMEN-OWNED	<input type="checkbox"/> e. HUBZone	<input type="checkbox"/> f. EMERGING SMALL BUSINESS			
13. PLACE OF		14. GOVERNMENT B/L NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	16. DISCOUNT TERMS	
a. INSPECTION Government	b. ACCEPTANCE Government		07/31/2010		

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	SEE LINE ITEM DETAIL					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT	19. GROSS SHIPPING WEIGHT	20. INVOICE NO.		17(h) TOT. (Cont. pages) 17(i) GRAND TOTAL
	21. MAIL INVOICE TO: Tammy Curnett				
	a. NAME DOT/ Enterprise Services Center (ESC) OFO/FAA, Oklahoma City				
	b. STREET ADDRESS (or P.O. Box) MARAD A/P Branch, AMZ-150 PO Box 25710				
	c. CITY Oklahoma City	d. STATE OK	e. ZIP CODE 73125	\$72,657.00	

22. UNITED STATES OF AMERICA BY (Signature) 	23. NAME (Typed) Delores Bryant TITLE: CONTRACTING/ORDERING OFFICER
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Line Item Summary	Document Number BPC10000001	Title Marine Biologist Services	Page 2 of 2
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Total Funding: \$72,657.00

FYs	Fund	Budget Org	Sub	Object Class	Sub	Program	Cost Org	Sub	Proj/Job No.	Sub	Reporting Category
	201070	X176800		15DS		DSCP00	25404				
Division	Closed FYs	Cancelled Fund									

Line Item Number	Description	Delivery Date (Start Date to End Date)	Quantity	Unit of Issue	Unit Price	Total Cost (Includes Discounts)
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0001	Earlham Victory	07/31/2010	1.00	JOB	\$72,657.000	\$ 72,657.00
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(11/23/2009 to 07/31/2010)

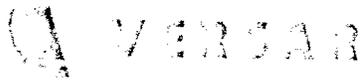
Sampling and analysis of biofouling organisms on the Earlham Victory at the BAE Systems dry dock facility in San Francisco, California. Sampling to be conducted pre- and post-hull cleaning in the dry dock. Work to be in accordance with the attached Scope of Work with the exception of the referenced dates. Ship is now tentatively scheduled for dry docking on December 2, 2009.

Funding Information:

- - 201070 - X176800 - - 15DS - - DSCP00 - 25404 - - - - -

\$72,657.00

Total Cost: \$72,657.00



Scope of Work

Versar, Inc.

November 16, 2009

Contract # GS-00F-007L Between U.S. Maritime Administration and Versar, Inc.

Task Title: Hull Biofouling Sampling of the Earlham Victory in San Francisco
Deliverable: June 1, 2010
Cost Estimate: \$72,657

Biological surveys will be conducted on the EARHALM VICTORY prior to and after hull cleaning while the vessel is in dry dock in San Francisco, California, beginning December 3, 2009. Hull fouling biota will be collected to identify and quantify the species attached to or associated with the underwater surfaces of the Earlham Victory, and to examine their geographic distributions with respect to their possible transfer from San Francisco Bay to the Gulf of Mexico. Two Versar scientists will collect 50 samples prior to hull cleaning, and will remain in San Francisco for post-cleaning sampling. The Maritime Administration has allotted a 3-day window for the cleaning of the hull, with post-cleaning sampling to commence immediately after hull cleaning. Up to 50-post-cleaning samples will be collected, but the exact number will be determined on site and will be dependent upon the extent of biofouling remaining and time constraints for completing the sampling.

Samples will be collected with the help of Maritime Administration personnel using a forklift with capacity for 2 scientists to access parts of the hull that are inaccessible from ground level. A stratified random sampling protocol will be used. Samples will be taken near the water line, mid-depth, and bottom of the hull, along eight equidistant transects (Figure 1). Generally, five samples will be collected per transect: starboard upper, starboard lower, bottom, port lower, and port upper. In addition, samples will be taken from the vessel's appendages, including the stern tube, rudder, and propellers and/or niche locations. A 6-inch diameter PVC pipe sampler with a cloth bag attached at the opposite end will be used to sample the biota. A 3-inch scraper will be used to remove the biological material from the hull, which will then be collected in the sample bag. Each sample will be rinsed down into the bag, and the bag will be closed, tied off and immediately transferred to 5-gallon buckets with in situ marine water. Extra live material will be removed from the hull at a few randomly selected locations and collected into a bucket with seawater. Before sampling, photos of the hull will be taken to document general biofouling cover. Due to expected time constraints, no sample quadrat photos of the hull will be taken.

The above procedures will be carried out during the biological sampling of the vessel. After the pre-cleaning sampling iteration is completed, additional activities at dock site will be conducted, not to interfere with the hull cleaning activities. These activities will include visual examination of the extra live material and transferring of samples to relaxant and preservative solutions. Visual examination of the extra live material will be carried out in the field using a stereo dissecting microscope. The aim of this activity is to examine, identify and/or collect voucher specimens of organisms that may be difficult to identify in the laboratory if the biological material on the hull has had time to dry out.

Samples will be shipped back to the laboratory for further identification. Representative organisms from the very common species present in the samples (generally >100 individuals) will be removed for taxonomic identification, and their abundance will be estimated. The individuals of the less common species (generally < 100 individuals) will be removed from the samples, counted, and identified to species level whenever possible. Colonial species will be identified to species level whenever possible, but no counts can be provided for these species. If needed, voucher specimens will be sent to specialists for taxonomic identification or confirmation.

Depending on the taxonomic specialist turnaround, it is expected that laboratory data will be ready for analysis and reporting within 4-5 months from sample collection, and a draft report deliverable will follow on or before June 1, 2010.

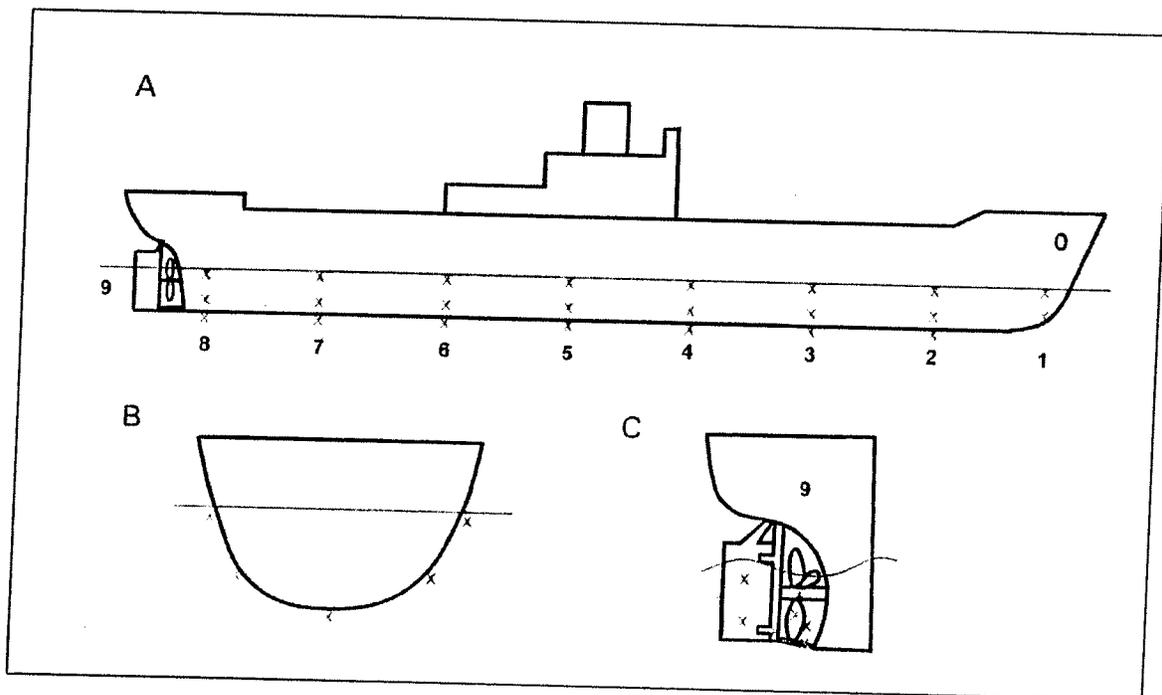


Figure 1. General sampling diagram. 'x' denotes sample locations.