

January 21, 2015

RE: A Comparative Analysis Of An Oil Spill On The Biota Inhabiting Several Gulf Of Mexico Shipwrecks: Archaeological Analysis. Contract No. M13PC00021. Voucher No. 5.

The purpose of this letter is to serve as the Quarterly Status Report for Contract No. M13PC00021. This report lists a summary of the tasks completed for this contract during the months of September, October, and November, 2014.

Robert A. Church
Senior Marine Archaeologist
Project Manager
C & C Technologies, Inc.

QUARTERLY STATUS REPORT

Between August 23 and November 28, 2014, C&C participated in the telecommunications and in-person meetings outlined below, re-processed portions of the AUV laser, multibeam sonar and photographic data, and continued reviewing previously collected video data of the project wreck sites. Mr. Church corresponded with Melanie Damour, BOEM Contracting Officer Representative (COR) and Chief Scientist Dr. Leila Hamdan, George Mason University (GMU). Mr. Church corresponded with Droycon Bioconcepts, Inc. (DBI) concerning the progress of laboratory analysis and reporting on the *U-166* corrosion platform. Mr. Church corresponded with Montana State University and the PAST Foundation concerning video production and education outreach activities.

Activity by C&C:

Meetings & Travel

- October 2-4, 2014: Robert Church traveled to Columbus, OH to participate in the student design challenge and the teacher professional development hosted by the PAST Foundation. Travel Cost will post during the next quarter.
- October 16, 2014: Conference Call with BOEM, and GMU, to discuss the outline for the Report of Findings and the SHA Conference.

Data Collection

All data collection is complete.

Data Processing

Primary data processing for the laser and the BV5000 data is complete, although some editing will continue as needed. Merging the laser and sonar data was completed during the quarter. Photo processing for the AUV photographs is also complete. Preliminary photo mosaics have been compiled for the wreck sites where applicable (two of five final mosaics are complete).

Activity by the PAST Foundation (PAST) and MSU included:

- Began working with students at Dublin High School and the Metro Middle School robotics classes as part of the Student Design Challenge.
- Prepared to host the teacher Professional Development Program but was postponed due to a teacher strike.
- November 20, 2014: Hosted a preliminary ROV Competition at the COSI center in Columbus, OH as part of the Student Design Challenge (26 teams registered for the competition)

Activity by Montana State University (MSU) included:

- Began preparing Project Podcasts

Activity by DBI included:

- No activity reported and no invoices were received from DBI for this quarter.

QUARTERLY STATUS REPORT

Upcoming Plans:

- C&C will finalize the photo mosaics where applicable (No photo mosaic quality data for Halo).
- C&C will finalize the updated site maps.
- C&C will continue to review previously collected video data of the project wreck sites as needed for comparative analysis.
- C&C will begin assembling the Report of Findings.
- C&C will participate in the project session and poster session at the Society for Historical Archaeology Conference in Seattle Washington.
- MSU will begin finalizing the project pod casts.
- PAST is organizing the primary ROV Competition scheduled for May 2015.

June 2, 2015

RE: A Comparative Analysis Of An Oil Spill On The Biota Inhabiting Several Gulf Of Mexico Shipwrecks: Archaeological Analysis. Contract No. M13PC00021. Voucher Nos. 6 and 7.

The purpose of this letter is to serve as the Quarterly Status Report for Contract No. M13PC00021. This report lists a summary of the tasks completed for this contract during the months of December, 2014, and January and February, 2015.

Robert A. Church
Senior Marine Archaeologist
Project Manager
C & C Technologies, Inc.

QUARTERLY STATUS REPORT

Between November 29, 2015 and February 20, 2015, C&C refined the AUV laser datasets for the wreck sites, and prepared the first sections of the report of findings. C&C also prepared oral and poster presentations for the 2015 Society for Historical Archaeology Conference in Seattle, Washington. Mr. Church corresponded with Melanie Damour, BOEM Contracting Officer Representative (COR), Dr. Annalies Corbin and Dr. Sheli Smith of the PAST Foundation and with Roshan Patel and Dr. Dennis Aig of Montana State University concerning report preparation, video production, and education outreach activities.

Activity by C&C:

Meetings & Travel

- January 5-11, 2015: Daniel Warren traveled to Seattle, Washington to participate in the Project Session at the Society for Historical Archaeology Conference (These travel cost will appear on the next invoice).

Data Collection

All data collection is complete.

Data Processing

Primary data processing for the laser and the BV5000 data is complete, although some editing will continue as needed. Preliminary photo mosaics have been compiled for the wreck sites where applicable (Three of five final mosaics are complete).

Activity by the PAST Foundation (PAST) and MSU included:

- Preparing to host the Professional Development Program ROV Competition at the COSI center in Columbus, OH as part of the Student Design Challenge.

Activity by Montana State University (MSU) included:

- Preparing Project Podcasts

Activity by DBI included:

- No activity reported and no invoices were received from DBI for this quarter.

Upcoming Plans:

- C&C will continue preparation of the Report of Findings.
- MSU will continue to complete the project pod casts.
- PAST is organizing the primary ROV Competition scheduled for May 2015 and C&C will participate in the competition in Columbus, OH.
- C&C will finalize the photo mosaics where applicable (No photo mosaic quality data for Halo).
- C&C will continue to finalize the updated site maps.

QUARTERLY STATUS REPORT

- C&C will continue to review previously collected video data of the project wreck sites as needed for comparative analysis.

September 30, 2015

RE: A Comparative Analysis Of An Oil Spill On The Biota Inhabiting Several Gulf Of Mexico Shipwrecks: Archaeological Analysis. Contract No. M13PC00021. Voucher No. 8.

The purpose of this letter is to serve as the Quarterly Status Report for Contract No. M13PC00021. This report lists a summary of the tasks completed for this contract during the months of March, April, and May, 2015.

Robert A. Church
Senior Marine Archaeologist
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QUARTERLY STATUS REPORT

Between February 21 and May 15, 2015, C&C prepared and submitted the background sections of the Report of Findings and began working on the comparative analysis sections. C&C reviewed the podcasts prepared by MSU for final production and participated in the Student Design Challenge ROV Competition hosted by the PAST Foundation. Mr. Church oversaw the development of a digital model of the *U-166* wreck site based on the AUV laser and photographic data. Mr. Church corresponded with Melanie Damour, BOEM Contracting Officer Representative (COR), Dr. Annalies Corbin and Dr. Sheli Smith of the PAST Foundation and with Roshan Patel and Dr. Dennis Aig of Montana State University concerning report preparation, video production, and education outreach activities.

Activity by C&C:

Meetings & Travel

- April 28, 2015: Student Design Challenge ROV Competition video conference planning meeting with the PAST Foundation.
- May 6-8, 2015: Daniel Warren and Robert Church traveled to Columbus, OH to participate in the Student Design Challenge ROV Competition.
- Also, travel costs for participating in the Project Session at the Society for Historical Archaeology Conference in January 2015 are included on this invoice.

Data Collection

All data collection is complete.

Data Processing

Primary data processing for the laser and the BV5000 data is complete, although some editing will continue as needed. Preliminary photo mosaics have been compiled for the wreck sites where applicable (Four of five final mosaics are complete).

Activity by the PAST Foundation (PAST) and MSU included:

- Hosted the Professional Development Program ROV Competition at the COSI center in Columbus, OH as part of the Student Design Challenge.

Activity by Montana State University (MSU) included:

- Preparing Project Podcasts. Four of eight podcasts are complete.

Activity by DBI included:

- No activity reported and no invoices were received from DBI for this quarter.

Upcoming Plans:

- C&C will continue preparation of the Report of Findings.
- MSU will continue to complete the remaining project podcasts.

QUARTERLY STATUS REPORT

- PAST/Bare Bone Games will finalize the digital model of the *U-166* wreck site based on the AUV data.
- C&C will finalize the photo mosaics where applicable (No photo mosaic quality data for Halo).
- C&C will continue to finalize the updated site maps for each wreck site.
- C&C will continue to review previously collected video data of the project wreck sites as needed for comparative analysis.

January 15, 2016

RE: A Comparative Analysis Of An Oil Spill On The Biota Inhabiting Several Gulf Of Mexico Shipwrecks: Archaeological Analysis. Contract No. M13PC00021.
No Voucher with this report.

The purpose of this letter is to serve as the Quarterly Status Report for Contract No. M13PC00021. This report lists a summary of the tasks completed for this contract during the months of June, July, and August, 2015.

Robert A. Church
Senior Marine Archaeologist
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C & C Technologies, Inc.

QUARTERLY STATUS REPORT

During the months of June, July and August, 2015, C&C continued working on the comparative analysis sections and site descriptions. C&C reviewed the podcasts prepared by MSU for final production as they became available. Mr. Church corresponded with Melanie Damour, BOEM Contracting Officer Representative (COR), Dr. Annalies Corbin and Dr. Sheli Smith of the PAST Foundation and with Roshan Patel and Dr. Dennis Aig of Montana State University concerning report preparation, video production, and education outreach activities.

Activity by C&C:

Meetings & Travel

- June 9, 2015: follow-up conference call with the PAST Foundation concerning Student Design Challenge ROV Competition.
- August 5, 2015: Conference call with the PAST Foundation concerning Student Design Challenge ROV Competition.

Data Collection and Processing

All data collection is complete.

All data processing for the laser and the BV5000 data is complete. All five final photo mosaics have been compiled for the wreck sites where applicable.

Activity by the PAST Foundation (PAST) and MSU included:

- PAST conducted follow-up activity for the Student ROV Design Challenge.
- PAST completed a 3D digital model of the *U-166* Wreck site.

Activity by Montana State University (MSU) included:

- Preparing Project Podcasts: six of eight preliminary podcasts are complete.

Activity by DBI included:

- No activity reported and no invoices were received from DBI for this quarter.

Upcoming Plans:

- C&C will begin finalizing the site descriptions for the Report of Findings.
- MSU will continue to complete the remaining project podcasts.
- C&C will finalize the updated site maps for each wreck site.
- C&C will continue to review previously collected video data of the project wreck sites as needed for comparative analysis.