November 7, 2024

South Carolina Office of Resilience
632 Rosewood Drive
Columbia, South Carolina 29201

Attention: Ms. Shauna Webb, Infrastructure Project Manager
Shauna.Webb@scor.sc.gov

Reference: **Proposal for Environmental Sampling and Analysis**
**USS Yorktown**
Mount Pleasant, South Carolina
S&ME Proposal No. 24130479

Dear Ms. Webb:

S&ME, Inc. (S&ME) appreciates the opportunity to provide this proposal to perform onsite asbestos air monitoring, and sampling and analysis for per- and polyfluoroalkyl substances (PFAS) and polychlorinated biphenyls (PCBs) at the referenced vessel located at 40 Patriots Point Road in Mount Pleasant, South Carolina. This proposal provides our understanding of the project and outlines our proposed scope of service, schedule, and fee. If authorized, the applicable portion of work will be conducted in accordance with the State of South Carolina STC for Asbestos/Lead Paint/Mold Collection and Testing Contract No. 4400034379 (May 19, 2024 to May 19, 2029) between S&ME and the State of South Carolina. Additional services not applicable to the above-referenced state contract will be conducted in accordance with the terms and conditions of the attached Form AS-071, Agreement for Services, which is incorporated into this proposal by reference.

## Project Information

This proposal was requested by you in the emails to Terry Richburg, with S&ME, on October 15, 2024 and subsequent emails, to support the USS Yorktown Environmental Assessment and Remediation project (SCOR Project No. YT-22-1000-01 and State Project No. D30-N021-PG). The USS *Yorktown* Environmental Assessment and Remediation Plan Technical Specifications OSE Project No. D30-N021-PG (Tech Specs) specifies that an independent contractor will be hired by the South Carolina Office of Resilience (SCOR) to conduct any required testing, such as asbestos air samplers for inspection, monitoring, and sampling, and for PCB testing of cleaned surfaces.

Based on the emails sent on October 25 and 29, 2024, we understand you requested the following sampling and analysis:

### *Onsite Asbestos Air Monitoring*

- Background, daily, and clearance air monitoring

*PCB Wipe Samples*

100 total PCB wipe samples collected over 10 sampling events.

- 35 of the samples will be collected from the exterior of tanks which have recently been flushed out. We understand we assume/understand that some of the tanks may have leaked, and/or there may be spills during the flushing process.
- 20 of the samples will be collected from "inaccessible components" of the ship, which include ten samples collected prior to decontamination activities to determine the PCB levels in the previously inaccessible components. Ten samples will be collected following cleaning activities to confirm PCB concentrations on surfaces in the previously inaccessible components are less than regulatory limits.
- 45 of the samples will be collected from pathways, high-contact areas, etc. (per description on p.12 of the Tech Specs).

*PFAS Samples*

- Ten representative water samples will be collected from tanks that are scheduled for removal for analysis of PFAS. S&ME assumes that these samples can be collected during three sampling events, as tanks for cleaning are identified by SCOR.

## Scope of Service

S&ME proposes to perform the following Basic Services detailed in this Scope of Service.

### Task 1 - Onsite Asbestos Air Monitoring

The South Carolina Department of Environmental Services (SCDES) Regulations 61-86.1 (Standards of Performance for Asbestos Projects) requires onsite asbestos air monitoring, by a SCDES licensed Air Sampler, prior to, during, and following completion of abatement activities for asbestos projects involving equal to or greater than 260 linear feet or 160 square feet of friable asbestos containing materials (ACMs). The SCDES also requires a written project design, prepared by a SCDES licensed Project Designer, when an asbestos project involves 1,500 linear feet or 3,000 square feet of friable ACMs.

S&ME will perform up to 10 days of air monitoring services for those "regulated or friable" asbestos removal activities. "Regulated or friable" activities require background air samples collected prior to abatement activities to document baseline airborne fiber concentrations in each work area. During asbestos abatement activities, daily area samples will be collected to determine if satisfactory airborne fiber concentrations are maintained as required by applicable regulations. At the completion of asbestos removal activities, clearance samples will be collected and analyzed, following a visual assessment to confirm substantial completion of abatement activities in the work area. Air samples will be analyzed by Phase Contrast Microscopy (PCM) using the National Institute of Occupational Safety and Health (NIOSH) 7400 method. As we do not anticipate an abatement of 3,000 square feet or 1,500 linear feet of friable ACMs, clearance air samples will be analyzed by PCM not Transmission Electron Microscopy (TEM). The air sampling will be conducted by a SCDES licensed Air Sampler in general accordance with the current requirements for asbestos air monitoring found in SCDES Regulations 61-86.1.

Upon completion of our services, S&ME will prepare and issue a final report summarizing the air monitoring results, laboratory analysis sheets, and field observations. Daily field reports, documentation, and sample analyses will be provided in their entirety for your records.

## Task 2 - PCB Wipe Sampling

S&ME proposes to conduct up to 10 mobilizations and collect up to 100 representative PCB wipe samples, for readily accessible surfaces on and around tanks during flushing, inaccessible components, pathways, and high-contact areas. Sampling and analytical tasks will be performed in general accordance with the current USEPA Region 4 Laboratory Services and Applied Science Division (LSASD) Field Branches Quality System and Technical Procedures. Disposable sampling equipment will be used when available. When necessary (between sampling locations), reusable sampling equipment will be properly decontaminated in the field before being re-used to collect additional samples. Sample containers will be placed into an iced cooler and shipped or transported to a laboratory under chain-of-custody.

Wipe samples will be analyzed for TCL PCB Aroclors by SW-846 Method 8082. S&ME will use a laboratory certified by SCDES to perform the analyses. Samples will be analyzed on a standard two-week turnaround time. Expedited (5-day laboratory turnaround) may be performed for an additional fee upon request.

Upon our receipt of the analytical results from the laboratory, S&ME will provide the laboratory results to SCOR and provide recommendations to SCOR regarding subsequent PCB wipe sampling of the tanks, inaccessible components, pathways, and high-contact areas. S&ME will prepare one written letter report that includes a description of field activities, procedures used, and sample results.

## Task 3 - PFAS Sampling

S&ME proposes to conduct up to three mobilizations and collect up to 10 representative in-situ PFAS water samples from tanks designated by the client. As requested, tank water will be sampled in lieu of sampling the pumped water in order to meet project schedule based on anticipated laboratory turnaround times.

Sampling and analytical tasks will be performed in general accordance with the current LSASD Field Branches Quality System and Technical Procedures. Disposable sampling equipment will be used when available. When necessary (between sampling locations), reusable sampling equipment will be properly decontaminated and subsequently rinsed using PFAS-free water in the field before being re-used to collect additional samples. Sample containers will be placed into an iced cooler and shipped or transported to a laboratory under chain-of-custody.

PFAS water samples will be analyzed for PFAS by SW-846 Method 1633. S&ME will use a laboratory certified by SCDES to perform the analyses. Samples will be analyzed on a standard three-week turnaround schedule. Expedited (two-week laboratory turnaround) may be performed upon request, for an additional fee.

Upon our receipt of the analytical results from the laboratory, S&ME will provide the laboratory results to SCOR and provide recommendations regarding disposal of the tank water based upon the results of the analysis. One written letter report will be provided, and include a description of field activities, procedures used, sample results, and comparisons of sample results to various USEPA screening levels.

## Excluded Services

Without attempting to provide a complete list of all services or potential services that will be excluded from this proposal and performed by S&ME, the following services are specifically excluded from this proposal. Some of these services can be performed by S&ME, if desired. However, a separate proposal for these services would be required.

- Additional sampling or laboratory analysis other than that proposed herein.
- Hazardous waste permitting or management.
- Additional characterization, profiling, transportation, or disposal of water, oil, or other wastes or media.
- Other tasks identified in the USS *Yorktown* Environmental Assessment and Remediation Plan Technical Specifications not specifically mentioned in the Scope of Service.

## Limitations

This proposal is solely intended for the Basic Services as described in the Scope of Service. The Scope of Service may not be modified or amended, unless the changes are first agreed to in writing by SCOR and S&ME. Use of this proposal and corresponding final reports is limited to above-referenced project and client, and the client's assignees. No other use is authorized by S&ME.

The scope of service, conclusions, and recommendations are limited by the testing methods and equipment used based on applicable standards of normal practice in the geographic area at the time this work is performed. No other warranty, expressed or implied, is made.

## Client Responsibilities

To allow S&ME to complete the proposed scope of work, we require that the client provide the following:

- Access to the subject property, sampling locations, and media to be sampled in a manner that does not require entry into a permitted confined space.

## Schedule

We are prepared to initiate fieldwork within two weeks, following receipt of your written authorization. Asbestos air sample results, for PCM samples, will be provided one day following sample collection, and the written asbestos air monitoring report will be provided one week following substantial completion of air monitoring. Laboratory turnaround schedules are typically three weeks for PFAS analysis and two weeks for PCBs. We anticipate submitting our report for each mobilization within two weeks following receipt of PCB and PFAS laboratory analytical results.

## Fee

We propose to execute the Basic Services detailed in the Scope of Service, based on the attached fee schedule for a total estimated fee of **forty-three thousand, three hundred and seventy dollars ($43,370)**. Any deviation from the Scope of Service specified herein whether by client direction or by S&ME recommendation and client approval may require an approved change order. If a change order is required, we will notify you of the change prior to conducting the work and will not perform the work without your prior authorization.

## Authorization

If authorized, the applicable portion of work will be conducted in accordance with the State of South Carolina STC for Asbestos/Lead Paint/Mold Collection and Testing Contract No. 4400034379 (May 19, 2024 to May 19, 2029) between S&ME and the State of South Carolina.

## Closing

S&ME appreciates the opportunity to submit this proposal and provide you with our environmental services. Should you have any questions, please feel free to contact either of us at (843) 884-0005.

Sincerely,

**S&ME, Inc.**

Terry W. Richburg
IH Operations Manager

Christian Pullano, P.G.
Project Geologist

Attachment: I. Fee Estimate

Eric Fosmire
Chief of Staff and General Counsel
South Carolina Office of Resilience

# Attachment I – Fee Estimate

**Fee Estimate for Environmental Sampling and Analysis**
**USS Yorktown**
**S&ME Proposal No. 24130479 Dated November 7, 2024**

| Task Description | Est Qty | Unit | Rate | Total |
|---|---|---|---|---|
| **1. Onsite Asbestos Air Monitoring per State Contract 4400034379** | | | | |
| Daily Rate (8-hrs) | 10 | day | $ 550.00 | $ 5,500.00 |
| Overtime | 10 | hour | $ 90.00 | $ 900.00 |
| Asbestos Report Preparation | 8 | hour | $ 90.00 | $ 720.00 |
| | | | *task total* | *$ 7,120.00* |
| **2. PCB Wipe Sampling** | | | | |
| Estimated cost per mobilization (anticipate 10) | | | | |
| Senior Technician | 8 | hour | $ 115.00 | $ 920.00 |
| Engineering Professional | 2 | hour | $ 180.00 | $ 360.00 |
| Senior Engineer | 1 | hour | $ 250.00 | $ 250.00 |
| Daily Mobilization Rate | 1 | day | $ 300.00 | $ 300.00 |
| Sampling/Decontamination/General Equipment | 1 | day | $ 70.00 | $ 70.00 |
| Sample Shipping | 1 | each | $ 150.00 | $ 150.00 |
| | | | *subtotal* | *$ 2,050.00* |
| Estimated cost per sample | | | | |
| PCBs by EPA Method SW-846 3550C/8082A (2-week TAT)[a] | 100 | sample | $ 125.00 | $ 12,500.00 |
| | | | *subtotal* | *$ 12,500.00* |
| Estimated Reporting Costs (1 report at completion of fieldwork): | | | | |
| Senior Technician | 2 | hour | $ 115.00 | $ 230.00 |
| Staff Engineer | 16 | hour | $ 125.00 | $ 2,000.00 |
| Engineering Professional | 16 | hour | $ 180.00 | $ 2,880.00 |
| Senior Engineer | 8 | hour | $ 250.00 | $ 2,000.00 |
| Admin | 2 | hour | $ 100.00 | $ 200.00 |
| | | | *subtotal* | *$ 7,310.00* |
| | | | *task total* | *$ 21,860.00* |
| **3. PFAS Sampling** | | | | |
| Estimated cost per mobilization (3 mobilizations anticipated) | | | | |
| Senior Technician | 8 | hour | $ 115.00 | $ 920.00 |
| Engineering Professional | 2 | hour | $ 180.00 | $ 360.00 |
| Senior Engineer | 1 | hour | $ 250.00 | $ 250.00 |
| Daily Mobilization Rate | 1 | day | $ 300.00 | $ 300.00 |
| Sampling/PFAS-free Decontamination/PFAS-Free Equipment | 1 | day | $ 100.00 | $ 100.00 |
| Sample Shipping | 1 | each | $ 150.00 | $ 150.00 |
| | | | *subtotal* | *$ 2,080.00* |
| Estimated cost per sample | | | | |
| PFAS by EPA Method 1633 (3-week TAT)[b] | 10 | sample | $ 600.00 | $ 6,000.00 |
| | | | *subtotal* | *$ 6,000.00* |
| Estimated Reporting Costs (1 report at completion of fieldwork): | | | | |
| Senior Technician | 2 | hour | $ 115.00 | $ 230.00 |
| Staff Engineer | 8 | hour | $ 125.00 | $ 1,000.00 |
| Engineering Professional | 16 | hour | $ 180.00 | $ 2,880.00 |
| Senior Engineer | 8 | hour | $ 250.00 | $ 2,000.00 |
| Admin | 2 | hour | $ 100.00 | $ 200.00 |
| | | | *subtotal* | *$ 6,310.00* |
| | | | *task total* | *$ 14,390.00* |
| | | | **Total Professional Services Cost Estimate** | **$ 43,370.00** |

Notes: S&ME will charge only for quantities utilized.
a. Laboratory analysis fee assumes two-week turn-around schedule.
b. Laboratory analysis fee assumes three-week turn-around schedule.