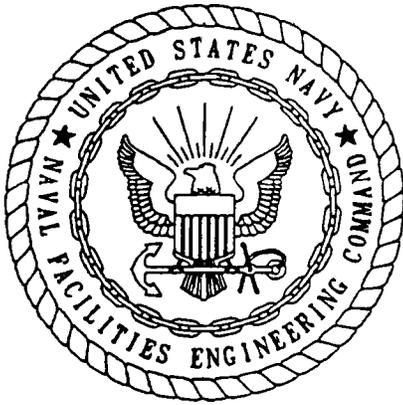


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PLAN OF ACTION FOR BRAC PHASE II ACTIVITIES REMEDIAL INVESTIGATION AND
FEASIBILITY STUDY OPERABLE UNITS 1 THROUGH 8 NAS CECIL FIELD FL
9/1/1994
ABB ENVIRONMENTAL

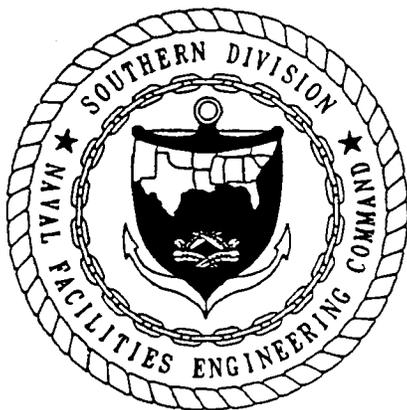


**PLAN OF ACTION
BRAC PHASE II ACTIVITIES AT NAS CECIL FIELD
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
AT OPERABLE UNITS 1 THROUGH 8**

**NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

**CONTRACT TASK ORDER NO. 090/MODIFICATION
CLEAN - DISTRICT I
CONTRACT NO. 62467-89-D-0317**

SEPTEMBER 1994



**SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH CHARLESTON, SOUTH CAROLINA
29419-9010**

**FINAL
PLAN OF ACTION**

**BRAC Phase II Support Activities at
NAS Cecil Field, Florida**

**Contract N62467-89-D-0317
CTO #090/Modification
RI/FS at Operable Units 1 through 7
NAS Cecil Field**

16 September 1994

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INTRODUCTION

This Plan of Action (POA) outlines the effort required, with their concomitant costs, to execute requirements of the Statement of Work (SOW) for Modification #3 to CTO #090 (dated 04 May 1994). It is structured such that the areas of interest are collected for each of the various branches within Code 18 of Southern Division. Generally speaking, the required tasks are broken down into five basic areas, as follows:

Part I - BRAC Support (general)

- Task 1: Project Management
- Task 2: EBS of Non-Contiguous Properties
- Task 3: BRAC Clean-up Plan
- Task 4: Community Relations Support

Part II - IR Program Activities

- Task 5: IR Planning Documents
- Task 6: IR Field Investigations
- Task 7: Laboratory Analysis for IR Investigations
- Task 8: Data Validation for IR Investigations
- Task 9: IR Data Evaluation and Reports

Part III - Underground Storage Tanks

- Task 10: UST/AST Management

Part IV - Water/Wastewater

- Task 11: Water/Wastewater Management Plans

Part V - Air/Solid Waste

- Task 12: Air/Solid Waste Management Plans

The initial section (BRAC Support) includes those tasks that, like the BRAC Environmental Coordinator (BEC), transcend normal SouthDiv organizational boundaries and apply to NAS Cecil Field's Environmental Restoration program as a whole. The remainder of the sections are organized in accordance with the different sections of Code 18. The purpose of arranging this POA in this manner is two-fold; it eases distribution and review of the proposal itself, and it provides a foundation for proposing to conduct future work at NAS Cecil Field.

Finally, it is noted that the tasks identified herein are numbered consecutively, to facilitate review and of the proposal. Upon negotiation of this new effort, ABB-ES will revise the task numbering system to incorporate this new work into the existing work breakdown structure for CTO #090.

This proposal assumes that NAS Cecil Field includes:

- The Main Base,
- Yellow Water Weapons Area,
- OLF Whitehouse,
- Palatka Radar Site, and
- Fuel Pipeline from NAS Cecil Field to NAS Jacksonville

Under the IR Program Activities section, there are several sets of plans and field investigations. For clarity sake, all of the "grey" sites (excluding UST/AST which is discussed in Part III, Task 10) will require further investigation.

A portion of this effort will be conducted/executed by subcontract with AJT & Associates, Inc. (AJT). AJT is a small, disadvantaged business with offices in Orlando, Jacksonville, Cape Canaveral, and Huntsville, AL. It is an A&E firm with an environmental section that provides enormous flexibility in the area of compliance programs such as asbestos, lead-based paint, water/wastewater, wetlands delineation, etc. AJT is currently under contract with numerous Naval installations. Their office locations provide the ability to fulfill part of President's Five-Part Plan by introducing federal dollars back into the local communities affected by base closing.

SCOPE OF SERVICES

Each task outlined in the SOW will be addressed in the sections as outlined above. For ease of review, the appropriate paragraphs of the SOW have been referenced for each task or subtask.

SCHEDULE

The schedule for this effort is provided in Attachment A to this Introduction. For estimating purposes, it is assumed that Notice to Proceed will occur on or about 01 July 1994. The total estimated project duration is 14 months, scheduled to coincide with the current, authorized and budgeted schedule for other IR activities at NAS Cecil Field.

COST

Costs associated with each task are presented in Attachment B. Travel costs are included in Attachment C, Other Direct Costs at Attachment D, and Subcontract Costs at Attachment E. Direct labor has been escalated to its midpoint in terms of expenditure, or December, 1994.

FEE ITEMIZATION FORM SCOPE LIMITATION

The purpose of this paragraph is to clearly define the scope and assumptions made for this fee proposal should it be necessary to enact provisions delineated at Part VII, Para. 22 of the subject contract, in accordance with FAR Part 52.243-2.

Specific Parameters:

As outlined specifically in the Statement of Work (SOW) under Contract No. N62467-89-D-0317, Contract Task Order No. 090, dated 04 May 1994 (as modified during negotiations).

Period of Performance

Costs presented are estimated to be incurred through November 1995.

PART I - BRAC SUPPORT

Task 1 - Project Management

For cost estimating purposes, a time frame of 14 months (60 weeks) is projected to complete the requirements of the SOW. This estimated project duration is based upon a Notice to Proceed date of 01 July 1994 and delivery date of the last (final, post regulatory review) report of 31 August 1995. An extra month is included to perform interim close-out requirements for the CTO and a final month is included for close-out actions subsequent to the final award fee determination.

The primary management team will consist of the BRAC Installation Manager, Mr. Philip Georgariou, the NAS Cecil Field Installation Manager, Mr. Rao Angara, the BRAC Task Order Manager, Ms. Lisa Routhier, and the Project Assistant, Mrs. Diane Copeland. This team will be assisted by various other team members whose efforts will be reflected in the areas which they will be executing. It is noted that Mr. Angara and Mr. Eric Blomberg are fully funded via separate modification to CTO #090, and only costs associated with necessary travel not previously authorized by CTO #090 have been included in this proposal. It is anticipated that all work conducted at NAS Cecil Field will be coordinated through the NAS Cecil Field Installation Manager. Both the NAS Cecil Field Installation Manager and the Installation Technical Leader (Mr. Blomberg) will participate in all NAS Cecil Field meetings.

Subtask 1.1 - Day-to-day Management (SOW Paragraph 2.1) - This subtask comprises the myriad of tasks that are associated with running a program of this magnitude, including, but not limited to:

- telephonic liaison with the SouthDiv BRAC Environmental Coordinator (BEC) as well as the facility representatives and project team members,
- subcontractor management,
- management of the various project teams,
- database management and reviews,
- project schedule updates,
- resource scheduling,
- review of technical plans and reports,
- TFMRS, and
- monthly progress reports.

The level of effort for these efforts is projected to require, on average, 16 hours per month for the BRAC Installation Manager, 24 hours per week for the Task Order Manager, and 20 hours per week for the Project Assistant.

Subtask 1.2 - Project Management Meetings (SOW Paragraphs 2.1 and 3.0) - The following project meetings will be conducted:

Project Manager Meetings - Three Project Manager Meetings will be conducted per month, each with a duration of two days. For estimating purposes, it is assumed that ten meetings will be held in Atlanta and seven meetings will be held in Charleston, SC. ABB-ES will be responsible for obtaining conference room space for meetings in Atlanta and Charleston. The remaining 25 meetings will be held at NAS Cecil Field. The Task Order Manager will attend all meetings, the

BRAC Installation Manager will attend 14 of the meetings, and the Underground Storage Tank (UST) Installation Manager (Mr. John Kaiser) will attend six meetings (at NAS Cecil Field only) throughout the duration of this projected scope. Additionally, the project Technical Lead (Principal Engineer) will attend a total of four meetings. Finally, the Project Assistant will attend 20 meetings, to be held at NAS Cecil Field.

Public Meetings - It is projected that ten public meetings will be held, either for the Restoration Advisory Board or the city's re-use commission. Only the BRAC Installation Manager's hours and the Task Order Manager's hours are reflected in this subtask. The Community Relations Specialist's hours are shown under Task 4.

Management Plan Meetings - ABB-ES will present Draft Management Plans to the BRAC Clean-up Team (BCT) for concurrence during a three day meeting at NAS Cecil Field. This meeting will be attended by the Installation Manager, the Task Order Manager and the Principal Engineer. The Installation Manager's hours and the Task Order Manager's hours are included in the Project Managers Meetings subtask.

Project Operations Plan Review Meeting - The Project Operations Plan, in Draft form, will be presented to the Navy at NAS Cecil Field during a one-day meeting. This review meeting will be attended by the Technical Lead for the Project Operations Plan, Ms. Tracy Stenner, and a Senior Scientist, both from the ABB-ES Wakefield office. Additionally, the Task Order Manager and Principal Engineer from Jacksonville will support the Project Operations Plan review. Level of effort for the above named individuals is contained in Task 5.1. It is assumed, for estimating purposes, that the Project Operations Plan review will coincide with an already scheduled Project Manager's meeting, and therefore, level of effort for the Task Order Manager is not separately estimated herein.

AOI Strategy Meeting and Review Meetings - The strategy for prioritization and review of the Areas of Interest (AOIs) will be presented to the BCT during a three day meeting to be held at NAS Cecil Field. The Task Order Manager (Lisa Routhier), BRAC Technical Leader (Drew Lonergan), and the IR Program Technical Leader (Eric Blomberg), will attend this meeting. The AOI strategy meeting will coincide with an already scheduled Project Manager's meeting, and therefore, level of effort for the Task Order Manager is not separately estimated herein. Groups of written AOIs will be presented to the Navy during five separate meetings (approximately 15 - 20 AOIs per meeting), so scheduled to facilitate the review process. Again, the level of effort for the Task Order Manager is not separately estimated, but is included in the labor hours already set forth for Project Manager's meetings.

EBS Review Meeting - Results of the Environmental Baseline Survey (EBS) for OLF Whitehouse, the JP-5 Fuel Pipeline, and the Palatka Radar Site will be presented to the BCT at NAS Cecil Field during a one-day meeting. This review meeting will be attended by the Installation Manager, Task Order Manager, and the BRAC Technical Lead for the EBS.

BCP Update Review Meeting - Upon completion of the BCT review of the BCP, a one-day meeting will be held at NAS Cecil Field with the BCT to review the revisions agreed upon. This review meeting will be attended by an Engineer from the Jacksonville office.

Subtask 1.3 - Overall Cost Management Plan (SOW Paragraph 2.2.1) - This Plan will include entries for every facet of NAS Cecil Field's environmental restoration program, including compliance issues. Individual entries will be included for each program, with projected costs, schedules, and priorities for each. Additionally, an overall schedule for the final closing and transfer of the installation will be developed.

The Navy, in an effort to ensure consistency in budget estimations, plans to use the Remedial Action Cost Engineering and Requirements System (RACER). This parametric cost estimating system will provide a documentation mechanism to support collection and distribution of historic project cost and technical information. To introduce this system into the development of the acquisition plan, an Associate Engineer will attend a two-day course, held in Niceville, Florida.

Task 2 - EBS of Non-Contiguous Properties (SOW Paragraph 2.3)

An environmental baseline survey (EBS) will be conducted for the following properties affiliated with NAS Cecil Field: OLF Whitehouse, Palatka Radar Site, and along the JP-5 fuel pipeline that extends from NAS Cecil Field to NAS Jacksonville. Results of the EBSs will be appended to current EBS recently conducted for NAS Cecil Field. The level of effort estimated for Task 2 is based on actual incurred labor expenditures during the BRAC Phase I Survey, CTO #100.

Subtask 2.1 - Review of Historical Data

A detailed search will be made of information in the Navy's possession (e.g. CERCLA Preliminary Assessments/Site Investigations [or their RCRA counterparts], surveys for radon, asbestos, lead based paint or contingency plans). The results of the record search, as it applies to describing environmental condition of the site, will be documented.

For the EBS, a 60-year chain of occupancy will be established for all properties that the facility currently occupies. The purpose of this action is to identify past practices that may have been conducted on current Navy property, and which may have adversely affected the environmental condition of the site. SouthDiv and NAS Cecil Field are the repositories for historical information for these two locations. A one-day trip to SouthDiv is planned for the record search, one person (Scientist) will conduct the records search. Five eight-hour days are proposed for review of the records obtained, utilizing a team of Geologists.

Once the records have been reproduced and collated, the survey team will review the documentation for any information that may be deemed relevant to the physical fence-to-fence survey. Known problem areas, gaps in previous surveys, and previously identified but never investigated suspect areas will be identified.

Subtask 2.2 Fence-to-Fence Baseline Survey

This subtask encompasses the actual surveys to be conducted at OLF Whitehouse, the JP-5 Fuel Pipeline, and the Palatka Radar Site. A physical (visual) reconnaissance of the real property will be conducted (and documented with photographs), including any structures, equipment, pipes, pipelines, or other improvements to the real property. The physical (visual) reconnaissance will also apply to areas

immediately adjacent to the real property, to the extent permitted by the owners. Observations will include but not be limited to:

- sewer lines,
- runoff patterns,
- asbestos,
- electrical components potentially containing PCBs,
- evidence of environmental impacts,
- any other observations which would indicate the actual or potential release of hazardous substances.

The survey team will obtain all necessary clearances from the appropriate facility security personnel to enter and perform field work. This includes obtaining any necessary easements, permits, and access to sites adjacent to the survey property.

The emphasis of this survey will be on compiling existing data, not generating new data. Actual sampling will not be required. Interview will be conducted with the current and former employees (to the extent that they can be identified and are available) involved in activities at each location.

During the course of the survey, working folders will be used for each building/site/parcel and will be used to store checklists, relevant report data, pictures, etc. These folders will facilitate mid-survey assessment of individual areas/buildings. The Navy will provide "office space" for four people at OLF Whitehouse, including a desk, chairs, and telephone, during the fence-to-fence survey.

The fence-to-fence survey for OLF Whitehouse is expected to take six 12-hour days with two two-person teams. This includes the attendance of a kick-off meeting. The fence-to-fence survey for the Palatka Radar site is expected to take one eight-hour day for a team of two people. This includes travel to and from the site. Survey of the JP-5 pipeline is estimated to require one day.

Subtask 2.3 - Prepare Draft EBS Report

Upon completion of the fence-to-fence surveys, the EBS report will be generated which chronicles the survey results. The format of the report will follow the existing guidelines, *Guidance on Conducting a Base Wide Environmental Baseline Survey (EBS), A Site-Specific EBS, and Format for EBS Report Preparation, SOUTHDIV, April 7, 1994*. Draft EBS Reports will be distributed to USEPA, FDEP, NAS Cecil Field, and the Navy for review. A total of 14 copies of the Draft EBS Report will be produced.

Subtask 2.4 - Incorporate Comments, Prepare Final EBS Report

Comments received from the Draft EBS Report will be evaluated and incorporated as appropriate, and the Final EBS Report will be produced and distributed.

Subtask 2.5 - EBS Review Meeting

The Task Order Manager and Senior Scientist will attend an EBS Review Meeting at NAS Cecil Field, to present the Draft EBS to the Navy. For estimating purposes, it is assumed that the EBS Review

Meeting will coincide with one of the scheduled Project Manager's Meetings, for which Task Order Manager support is already included herein. Estimated under this subtask is support by the Senior Scientist.

Task 3 - BRAC Clean-up Plan

Subtask 3.1 - BRAC Clean-up Plan (BCP) Update (SOW Paragraph 2.4)

A revised BCP, including all updated text, charts, tables, and maps, will be distributed in March 1995 after review by the BCT. Interim updates will be provided to the BCT on an as-needed basis in the form of errata sheets. The level of effort estimated for this task has been extrapolated from the actual hours expended to generate the original documents.

Copies of the revised BCP will be provided to the BCT for review. Upon receipt of review comments from the BCT, final changes will be made and a new, Revised BCP will be issued. For estimating purposes, it is projected that 20% of the BCT will require changes. A total of 50 copies of the Revised BCP will be produced, thereby allowing ten additional copies for Navy distribution to interested parties not currently identified.

Subtask 3.2 - Database Update/Management (SOW Paragraph 2.5)

The BRAC database will be revised and maintained in an up-to-date condition, and new editions of the database will be issued semi-annually. During the duration of this modification, two updates, issued on CD-ROM, will be distributed. The Computer Programmer will update and maintain the database.

Task 4 - Community Relations Support (SOW Paragraph 2.7)

Subtask 4.1 - Community Relations Program

ABB-ES and its approved subcontractor for community relations, Robinson & St. John, will work closely with representatives from NAS Cecil Field to support the 1994-1995 community relations program for all IR, BRAC and Restoration Advisory Board (RAB) activities. Community relations support for continuing IR activities and base closure include:

Update Mailing List: Mailing list data will be compiled, updated, and labels provided upon request for a period of one year.

Update Community Relations Plan: In consultation with NAS Cecil Field representatives, ABB-ES and its subcontractor will update the Community Relations Plan.

Prepare Fact Sheets: Fact sheets will be prepared, produced and distributed to communicate the restoration and closure activities at NAS Cecil Field to the surrounding community. Approximately twelve fact sheets will be prepared hereunder, that may cover the following activities, as necessary: environmental restoration activities, base closure process and applicable laws, establishment of the RAB,

and the reuse and re-development process. Fact sheets will be distributed at public meetings and through mailouts to the community.

Environmental Newsletter: An environmental newsletter will be prepared, produced and distributed to inform the community on the progress of the installation restoration and base closure activities.

Remedial Action Support: Draft and Final Responsiveness Summaries and proposed action documents will be prepared to support Record of Decision documents.

BRAC Press Release Kits: Press release kits will be prepared for reporters covering the base closure as it relates to environmental issues.

Public Relations Strategy: ABB-ES and its subcontractor will assist and advise on proactive public relations strategy. This will include developing plans to manage potential negative publicity.

Subtask 4.2 - Public Meetings

ABB-ES, in consultation with NAS Cecil Field representatives, will coordinate and support public meetings to communicate progress on the restoration and closure activities. A centrally located conference room will be obtained for such meetings, and ABB-ES and its subcontractor will ensure the availability of an overhead projector, production of posters, overhead transparencies, court reporter services, newspaper announcements for public meetings, meeting minutes, and mailings announcing public meetings.

ABB-ES and/or Robinson & St. John will participate in research gathering activities, attend planning and evaluation sessions, attend RAB/BCT meetings, provide indoctrination for RAB community members, and provide consultation and advice whenever requested and required. A detailed breakdown of subcontractor costs is also provided in the cost section for Part I.

PART II - IR PROGRAM ACTIVITIES

Task 5 - IR Planning Documents

Subtask 5.1 - Project Operations Plan (SOW Paragraph 2.2.2)

ABB-ES has recently developed a Project Operations Plan for BRAC Phase II Support at Naval Training Center (NTC) Orlando, with staff resources from its Wakefield, MA, office. The Wakefield office has also provided similar deliverables for Ft. Devens, MA, which is being closed under the original BRAC list. It is felt that the experience of the Wakefield office will be of significant assistance in the preparation of a Project Operations Plan for NAS Cecil Field, and therefore, most of the labor effort for Subtask 5.1 will be from Wakefield.

Site Visit/Data Collection and Review - A site visit will be conducted to assess current status and condition of NAS Cecil Field's installation restoration efforts. For ease of presentation, this subtask is divided into two parts: a physical site walkover and a comprehensive review of the existing documentation.

The site visit will be conducted by four people - Ms. Tracy Stenner, a Task Order Manager from the Wakefield office who will serve as the Technical Lead for the Project Operations Plan, a Senior Scientist and Principal Toxicologist who will have lead responsibility for document preparation, and the Associate Task Order Manager, who served as the Technical Lead for the BRAC Phase I surveys. (Level of effort for the Task Order Manager is included under Task 1 hereof, and is not separately estimated in this subtask.) This visit is envisioned to require two days.

The second part of this subtask will include review of the documentation cited in the SOW. Additionally, the project team will review prior NAS Cecil Field work plans and reports, including HASPs and QAPPs, as well as the BRAC Phase I survey report and the BRAC Clean-up Plan. These reviews will provide the foundation upon which the NAS Cecil Field Project Operations Plan will be developed.

Project Operations Plan Preparation - An initial Draft edition of the Project Operations Plan will be developed in accordance with the project schedule and forwarded to the Navy for review. A two week review period is assumed. Navy comments will be reviewed, informal responses prepared, and any outstanding issues resolved and incorporated into the Draft Final Project Operations Plan. The Draft Final document will be presented to the BCT for review (three week review period assumed). Comments from the BCT will be reviewed, responded to/resolved, and Final copies of the document will be published.

The level of effort estimated for preparing the Project Operations Plan is based on the similar efforts conducted for NTC Orlando and Ft. Devens.

Subtask 5.2 - Workplans for Investigating Remaining IR Sites (SOW Paragraph 2.9.1)

Of the original 19 IR sites, six sites still require investigation (4, 6, 9, 12, 18, and 19). In order to shorten the investigative process, ABB-ES will provide an investigation plan as addenda to the existing Workplan, SAP, and HASP (for OUs 3, 4, 5, and 6), rather than develop an additional workplan for the

evaluation of these sites. Data obtained from this investigation may be used to propose "No Further Action" at any of these sites. It should be noted, however, that the regulatory mandate for an RI/FS at most of these sites has not clearly established and an RI/FS may not be necessary (for Sites 6, 9, 12, 18, and 19).

Costs and level of effort for preparation of the investigation plan have been estimated assuming that the submission of addenda (and not a complete workplan) is permissible and that the six sites will be submitted, reviewed, and finalized as one deliverable.

Subtask 5.3 - Site Management Plan (SMP) Preparation and Update (SOW Paragraph 2.9.3)

ABB-ES will prepare the FY95 and FY96 SMP in September 1994 and August 1995, respectively, prior to the beginning of the fiscal year. Level of effort for the NAS Cecil Field Installation Manager (Mr. Rao Angara), Task Order Manager (Mr. Jim Denier), and Installation Technical Lead (Mr. Eric Blomberg) is budgeted in CTO #090, Modification #1. Therefore, only non-management level of effort has been estimated for Subtask 5.3. The distribution of hours for this task is the same as that presented in Subtask 2.2 of the original CTO #090 proposal.

Subtask 5.4 - Monitoring Well Inventory (SOW Paragraph 2.9.6)

A monitoring well inventory will be completed pursuant the SOW modification. The inventory will include monitoring well coordinates, top of casing elevation, installation date, lithologic boring logs, monitoring well construction diagram, condition of well, water levels, and aquifer testing date and results. Quarterly updates are planned to keep the inventory current. These updates will consist of information (for newly installed wells) to be added to the inventory; the entire inventory will not be re-issued. Current water level information will also be included in the quarterly updates. ABB-ES will update and combine the remaining deliverables (i.e., those not already delivered) required in Tasks 3 and 5 from the SOW dated 28 January 1993. Abandonment information (including documentation) will be included in the inventory. An updated IR well map will be produced for the inventory and two of the quarterly updates.

Costs and level of effort for Subtask 5.4 have been estimated assuming (1) that groundwater and soil laboratory analytical data for monitoring wells will not be included as part of the monitoring well inventory; (2) the inventory (and quarterly updates) will not be submitted to the state and Federal agencies for regulatory review; and (3) quarterly updates through 15 August 1995 are covered under this subtask.

Subtask 5.5 - AOI Sampling and Analysis Outlines (SOW Paragraph 2.2.3)

Sampling and Analysis Outlines (SAOs) will be prepared for each "grey" area (areas that are have not been evaluated or require additional evaluation). A total 100 "grey" have been assumed for estimating purposes. Preparation of the SAOs will be conducted by the Field Operations Leader (Mr. Courtney Brooks), the BRAC Technical Leader (Drew Lonergan), and a scientist/geologist. Each SAO is expected to be approximately four to five pages in length, and will include a site summary, site map, and proposed sampling scheme. Draft SAOs will be submitted and presented to the Navy, FDEP, and USEPA Region IV. It is assumed that SAOs will be submitted in groups of approximately 15 to 20, and each submittal will include a presentation of the SAO strategy for each SAO Group. Final SAOs will be prepared upon

receipt of comments. It is anticipated that the presentations will take place during five separate meetings.

Subtask 5.6 Hydrological Support Agreement Extension (SOW Paragraph 2.9.6)

Hydrological support of USGS modeling efforts will be continued pursuant to paragraph 2.9.4 of the SOW modification dated 04 May 1994. ABB-ES will continue to provide data to support the USGS regional and site-specific groundwater modeling effort as initially required in Task 4 of the SOW dated 28 January 1993. The scope of services for this task is outlined in the June 1993 CTO 090 POA under ABB-ES Subtask 10.6.

Costs and level of effort have been estimated for this task assuming (1) that the collection of water levels will continue through August 1995; (2) that the number of wells included in the effort will increase to approximately 315 wells in 1995; and (3) that the regional and possibly selected site-specific models will be completed during FY 1995.

Task 6 - IR Field Investigation

Subtask 6.1 - Ecological Field Investigation (SOW Paragraph 2.9.2)

ABB-ES (Arlington office) will complete an ecological field investigation of OUs 3, 4, 5 and 6 and remaining IR Sites (4, 9, 12, 18 and 19). The ecological field investigation will be composed of toxicity testing of sediments, sampling of fish and mapping of terrestrial wildlife habitat.

Subtask 6.1.1 - Toxicity Testing

Toxicity Testing for OUs 3, 4, 5 and 6 - Toxicity testing for OUs 3, 4, 5, and 6 will be completed as part of the confirmatory phase of Remedial Investigation for these OUs. It is more cost effective to plan the toxicity testing program based on the results of the initial investigation of the OUs (Subtask 2.9.5 of the SOW). Therefore, level of effort and other costs for these OUs are not provided in this POA.

Toxicity Testing for OU 7 - Toxicity testing for OU 7 has been completed and further testing is not anticipated to be necessary for completion of the RI/FS.

Toxicity Testing for OU 8 - Toxicity testing for OU 8 (Site 3) includes testing of surface soil samples with a 14-day earthworm survival test with *Eisenia foetida* and a lettuce (*Lactuca sativa*) seed germination test (USEPA, 1989). Samples for toxicity testing will be collected concurrently with those samples for chemical analyses.

Earthworms surviving the 14-day test exposures will be exposed to soils for an additional 14-days for the purpose of measuring contaminant residues in earthworm tissue. At the termination of the 28 day exposure, the earthworms will be purged of gut material, frozen and stored. After review of the results of the analyses of surface soils, a subset of the earthworm samples will be selected for analyses of contaminant residues.

Costs for toxicity testing at Site 3 assume that 25 surface soil samples will be tested including one reference sample. Twelve earthworm samples will be analyzed for contaminant residues.

The level of effort for collection of the surface soil samples assumes coordination of the effort with the sampling of surface soils for chemical analyses. One Senior Ecologist will be required in the field for eight days at 12 hours per day; travel time and 16 hours of preparation time are also included in this estimate.

Toxicity Testing for Other IR Sites - Sediment toxicity testing will be completed at the following locations with the midge *Chironomus tentans* and the freshwater amphipod *Hyallela azteca* according to ASTM protocols:

- 8 locations in Lake Fretwell
- 2 locations in the tributary adjacent to Site 8
- 3 locations in the tributary at Site 18
- 2 locations in Rowell Creek adjacent to Site 19
- 1 reference location

Sediment samples submitted for toxicity testing will be analyzed for TAL inorganics and TCL organics. Based on the initial sampling event for these sites, specific testing protocol will be developed at a later date. The level of effort and other costs related to this task will be presented in a future POA.

The level of effort for collection of the sediment samples for toxicity testing assumes collection of three samples per day for a total of six days. Collection of sediment samples will be completed by one Senior Ecologist and one Scientist. The level of effort for a Principal Ecologist for subcontractor oversight and interpretation and analyses of the toxicity testing results assumes 3 hours per toxicity test.

At the same time as collection of the sediment samples for toxicity testing, fish will be collected from Lake Fretwell and Rowell Creek upstream of Lake Fretwell for the analyses of PCBs and pesticides. The results of the tissue analyses will be used to interpret risks associated with PCB and pesticide contamination in sediments.

Fish will be collected by use of electroshock equipment by a qualified subcontractor. Fish will be collected from three locations in Rowell Creek upstream of Lake Fretwell, one reference location and five locations in Lake Fretwell. The cost for subcontract services is based on costs to complete electroshock collection of fish at NAS Jacksonville. The electroshock study will include a quantitative sampling of the fish population and description of any gross morphological abnormalities.

The level of effort for fish sampling including subcontractor oversight, interpretation and analysis of results assumes a four day field effort at 12 hours per day; 24 hours of preparation time; 60 hours for interpretation of results and 24 hours for subcontract oversight for a Principal Ecologist.

Subtask 6.1.2 - Mapping of Terrestrial Wildlife Habitat

ABB-ES will complete identification and general mapping of terrestrial wildlife habitats as directed in Subsection 2.9.2 of the SOW. Both upland and wetland plant communities will be characterized. Where

wetland plant communities are identified, jurisdictional delineation of boundaries will be completed. Undisturbed upland plant communities at NAS Cecil Field will be identified according to the system specified by the Florida Natural Areas Inventory (FNAI, 1990). Wetland plant communities will be identified according to the system developed by the US Army Corps of Engineers (Cowardin et al., 1979). Communities will be characterized based on vegetation structure and composition, topography, land form, substrate, and soil moisture condition.

Plant communities will be identified based on a field survey by a Principal Ecologist and Senior Ecologist. Observations and information collected during the field survey will be recorded on aerial photographs available from the City of Jacksonville or topographic maps. Identification of wetland plant species will be recorded in a bound field notebook with the information also recorded on wetland identification forms.

The field survey of OUs 3, 4, 5, 6, 7, 8 and the five additional IR sites will require 11 days for one Principal Ecologist and one Senior Ecologist, plus travel time and 16 hours of field preparation time.

A functional assessment will be completed for wetlands identified at OUs 3 thru 8 and the additional IR sites. The following function of the wetlands will be qualitatively evaluated: floodflow alteration, sediment stabilization, sediment and toxicant retention, nutrient removal and transformation, groundwater recharge and discharge, wildlife diversity and abundance, aquatic diversity and abundance, uniqueness, contamination mobility and transfer, prospects for restoration and recreation. The results of the functional assessment will be used to evaluate the effects of remedial alternatives on wetland function and to serve as the basis of comparison between the created or restored wetland and the current (unremediated) wetland. The level of effort assumes that a functional assessment will be completed for Sites 8, 10, 18 and 19.

Wetlands will be delineated in instances where remediation of the site is being considered and the remediation may potentially impact the wetlands. Wetland will be delineated in accordance with appropriate state and federal regulations. The level of effort for wetlands delineation assumes that wetlands will need to be delineated at Site 8, 10, 18, and 19. Delineation for each wetland will require 12 hours each for one Senior Ecologist and one Principal Ecologist in the field, plus travel time and preparation time (to review existing soils maps, wetlands maps and regulations). The level of effort assumes that one of the ecologists who completed the habitat mapping will complete the delineations.

Subtask 6.2 Scope Change To OUs 3, 4, 5, and 6 (SOW Paragraph 2.9.5)

To calculate the scope change level of effort, ABB-ES has estimated the total level of effort necessary to conduct the revised field work scope for OUs 3 through 6, and subtracted from that the originally estimated level of effort contained in the Final POA for Modification #1. The revised scope of the field program is presented in the Draft RI/FS work plan submitted in May 1994. The original estimate is detailed in the POA dated January 1994.

OU-3, Sites 7 and 8 - In lieu of the originally proposed piezometers, ABB-ES will install monitoring wells. The installation, sampling and slug testing of monitoring wells will provide information to access the direction and rate of groundwater flow in the surficial and intermediate aquifers, the presence or

absence of any vertical gradients and to provide initial Level IV groundwater quality data. The Level IV groundwater quality data will be used in the preliminary development of the risk assessment.

Additional soil borings were added at Site 7 to evaluate the extent of source area subsurface soil contamination. Fewer soil borings at Site 8 are the result of the lithologic soil borings being replaced by the soil borings that will be advanced for monitoring well installation.

Fewer surface soil screening samples will be collected at Site 7 since the 50-foot grid spacing did not require 70 samples. Additional surface soil screening samples will be collected at Site 8 to satisfy the 50-foot grid spacing selected for the site. Additional Level IV surface soil samples will be collected and the data will be used in the preliminary development of the risk assessment.

OU-4, Site 10 - A geophysical survey will be conducted at Site 10 to identify the site boundaries and locate potential areas of buried debris to enable effective placement of proposed surface and subsurface soil sample locations and monitoring wells. The soil borings will be conducted independently from the monitoring well installation program, resulting in 12 additional borings. Based on visual observation and field monitoring equipment, monitoring wells may be installed in some of the soil borings.

The number of surface and subsurface soil samples has remained the same.

OU-5, Sites 14 and 15 - Additional monitoring wells were added at site 14 and 15 to better assess the direction and rate of groundwater flow in the surficial and intermediate aquifers, the presence or absence of any vertical gradients and to provide initial Level IV groundwater quality data. The Level IV groundwater quality data will be used in the preliminary development of the risk assessment.

The increase in surface soil samples has resulted from the collection of samples from within the specified grid established for each site.

OU-6, Site 11 - During the Interim remedial action (IRA) at Site 11, several geophysical anomalies were identified and excavated outside the historical site boundary. To assess the potential for contamination throughout the areas where the anomalies were detected, additional surface and subsurface soil samples will be collected.

Additional monitoring wells will be added for reasons similar to those described for Sites 7 and 8.

Background Sampling - Additional background samples will be collected due to the presence of new soil types at the sites.

Subtask 6.3 - Conduct Unexploded Ordnance (UXO) Survey and Radiation Survey (SOW paragraph 2.8)

Investigation of unexploded ordnance (UXO) shall include review of all applicable records, interview of former base personnel, and review of EPIC data as available. All potential UXO and open burning - open detonation (OBOD) areas will be further investigated using non-destructive ground-penetrating radar, metal detectors, or similar methodologies. No remediation efforts will be conducted under this survey effort. The UXO survey will be conducted by AJT & Associates. No additional ABB-ES labor is

estimated to support the UXO Survey; for estimating purposes, it is assumed that the previously funded Field Operations Leader will supervise subcontractor efforts.

The Radiological Investigation will include a review of all applicable records and documentation and interviews with former base personnel, as available. The ordnance storage facility bunkers will receive surface contamination monitoring for the presence of ordnance associated radionuclides (U-235 and Pu-239) using direct reading equipment. This will validate the data and locate contamination and possible sources of radiation. In addition, five removable contamination smear samples will be collected and analyzed for the presence of U-235, Pu-239 and Tritium. The ordnance support facilities and surrounding area will also receive surface contamination monitoring and approximately 50 samples for removable contamination and 20 samples from drainage ditches will be collected and analyzed. The compound in the southwest section of the ordnance facility will also receive contamination monitoring and surface and soil samples will be collected and analyzed. All survey and sampling efforts will be conducted in accordance with the U.S. Nuclear Regulatory Guide entitled "*Manual for Conducting Radiological Surveys in Support for License Termination*", NUREG/CR 5849 OUAU-92/C57, June 1992.

Task 7 - Laboratory Analysis for IR Investigation

All samples will be forwarded to a NEESA-approved laboratory for the appropriate analytical procedures. To develop a cost estimate for laboratory analysis, ABB-ES has obtained competitive pricing for the total number of samples to be analyzed, and subtracted from that amount the previously negotiated value for laboratory analysis. The costs for all analysis are detailed in the "Cost" section for this Part II. There are no man hours associated with this task.

Task 8 - Data Validation for IR Investigation

Like the sample analysis efforts, the costs associated with data validation for all analytical results are detailed in the "Cost" section for this Part II. There are no man hours associated with this task. The level of effort associated with data management are included under the evaluation and report section of Task 9 below.

Task 9 - IR Data Evaluation and Reports

9.1 - Ecological Investigation Report and Habitat Mapping (SOW Paragraph 2.9.2)

The results of Subtask 6.2 will be reported in an Ecological Investigation Report. The results will be used to support ecological risk assessments for the OUs and additional IR sites as well as evaluation of remedial alternatives. The results will also be included in the Basewide Ecological Assessment Report.

9.2 - Unexploded Ordinance Survey/Radiation Survey Report (SOW Paragraph 2.8)

The final report for the UXO Survey and Radiation Survey will be prepared by AJT & Associates, and reviewed by ABB-ES prior to submittal to the Navy. The final reports will provide comprehensive documentation of the investigations, findings and recommendations.

Part III - Underground Storage Tank Support

Task 10 - UST/AST Management

Subtask 10.1 - Tank Management Plan (SOW Paragraph 2.2.1)

ABB-ES will prepare a Tank Management Plan (TMP) to:

- . catalog the current status of NAS Cecil Field aboveground and underground storage tanks;
- . document tank locations on NAS Cecil Field site maps;
- . synopsize reports of previous investigations and tank removal actions and current requirements for complying with FDEP and Navy regulations and guidance;
- . state priorities and schedules for accomplishing tank closures, contamination assessments and remedial actions; and
- . provide procedures and protocols for accomplishing and coordinating tank closures, contamination assessments and remedial action activities.

Based on data obtained during a site visit, ABB-ES will develop procedures and strategies for tank closures and contamination assessments and incorporate procedures for remedial actions (provided by the RAC). The UST Installation Manager will attend the Management Plan meeting at NAS Cecil Field and present the TMP strategy. Based on discussions and comments received at the Management Plan meeting, ABB-ES will prepare and submit a Draft TMP to the Navy and FDEP for review. Navy and FDEP review comments will be incorporated, and the Final TMP prepared and submitted.

The UST Installation Manager will coordinate preparation of the TMP and assure compliance with budget and schedule for this Task. He will also be responsible for communications with the Navy, BRAC Installation Manager, and other parties regarding the TMP. Project management support by the UST Installation Manager is estimated under this task since it is specific to one element only of the entire effort.

Subtask 10.2 - Update TIMS database (SOW Paragraph 2.6)

ABB-ES will prepare and submit an update of TIMS based on a review of the EBS and the TMP site visit to document tank locations.

Subtask 10.3 - Locate and Verification of USTs

ABB-ES will verify locations of USTs, utilizing geophysics, within the family housing on the main base, as well as at existing buildings located in the Yellow Water Weapons Area. A metal detector will be used for initial site screening, and ground penetrating radar (GPR) will be used for verification. Results of this effort will be presented in a summary report which will include diagrams of suspect UST locations.

Part IV - Water/Wastewater Support

Task 11 - Water/Wastewater Management Plans (SOW Paragraph 2.2.1)

ABB-ES, and its subcontractor, AJT & Associates, will develop a Water/Wastewater Management Plan to specify procedures for maintaining the facility until transfer or remediation actions.

The Management Plan will be categorized by priority parcels, facilities and subject. The plan will be a stand alone document to allow implementation by facility or parcel. The plan will include the necessary background information (applicable regulations) and direction to complete the remediation action or recommendations for further investigation.

Site investigations and interviews will be performed during the development of the management plan to verify the existing data and note discrepancies. Any discrepancies or deficiencies in the Phase I documentation will be noted and corrections actions/options identified. The plan will include maps for facility locations, a summary of findings at that facility, current facility status regarding the deficiencies, options and recommendations, schedules for remedial actions (using the notice to proceed as the start date), and cost estimates based upon current year dollars with escalation and potential risks. The plan will also include identification of any operation and maintenance activities required to manage the facility until title transfer.

The general outline for the Water/Wastewater Management Plan is set forth as follows:

1. Specific Findings
2. Recommendations
3. Referenced Regulations and Documentation
4. Facility Plan
5. Scope of Work (Maintenance)
Schedule
Cost Estimate
6. Scope of Work (Remediation)
Schedule
Cost estimate

Photographs will be included where necessary to provide clarification of the plan. A detailed breakdown of subcontractor costs associated with preparation of all management plans required by Tasks 11 and 12 hereof is provided in the "Cost" section of this Part IV.

Part V - Air/Solid Waste Support

Task 12 - Air/Solid Waste Management Plans (SOW Paragraph 2.2.1)

ABB-ES, and its subcontractor, AJT & Associates, will develop management plans to specify procedures for maintaining the facility until transfer or remediation actions. The following Air/Solid Waste management plans will be prepared:

- . Asbestos Management Plan
- . Lead-based paint management plan
- . PCBs Management Plan

As described previously for water/wastewater plans, management plans will be categorized by priority parcels, facilities and subject. Each plan will be a stand alone document to allow implementation by facility or parcel. The plan will include the necessary background information (applicable regulations) and direction to complete the remediation action or recommendations for further investigation.

Site investigations and interviews will be performed during the development of the management plans to verify the existing data and note discrepancies. Any discrepancies or deficiencies in the Phase I documentation will be noted and corrections actions/options identified. Project plans will include maps for facility locations, a summary of findings at that facility, current facility status regarding the deficiencies, options and recommendations, schedules for remedial actions (using the notice to proceed as the start date), and cost estimates based upon current year dollars with escalation and potential risks. The plans will also include identification of any operation and maintenance activities required to manage the facility until title transfer.

The general outline for the management plans will be set forth as follows:

1. Specific Findings
2. Recommendations
3. Referenced Regulations and Documentation
4. Facility Plan
5. Scope of Work (Maintenance)
 - Schedule
 - Cost Estimate
6. Scope of Work (Remediation)
 - Schedule
 - Cost estimate

Photographs will be included where necessary to provide clarification of the plans. A detailed breakdown of subcontractor costs associated with preparation of all management plans required by Tasks 11 and 12 hereof is provided in the "Cost" section of Part IV.

PROJECT PERSONNEL

The designated roles for the BRAC Phase II program at NTC Orlando are as follows:

NAS Cecil Field Installation Manager. The NAS Cecil Field Installation Manager, Mr. Rao Angara, will have authority and responsibility for the execution and overall performance of all environmental activities at NAS Cecil Field. Mr. Angara will maintain liaison with responsible Navy representatives to ensure that priorities remain current and task order status is available.

BRAC Installation Manager. Mr. Philip Georgariou is the Program Manager for all BRAC activities performed by ABB-ES, at NTC Orlando, NS Mobile, NAS Cecil Field and Naval Housing, Niagara Falls. As such, Mr. Georgariou will ensure that all work performed at NAS Cecil Field will be consistent with BRAC program objectives.

BRAC Task Order Manager. The BRAC Task Order Manager will be Ms. Lisa Routhier. Ms. Routhier will be responsible for maintaining the project schedule and budget and for evaluating the appropriateness of the services provided under each task. Ms. Routhier will also be responsible for the day-to-day conduct of work, including the integration of the input of supporting disciplines, subcontractors and the RAC. She will review the on-going quality control during performance of the work and the clarity and usefulness of all project work products.

UST Installation Manager. The Task Order Manager for the Tank Management Plan and TIMS database update will be Mr. John Kaiser. Mr. Kaiser has worked in the Navy CLEAN Underground Storage Tank program for approximately 2 years, managing numerous UST projects, and is the Installation Manager for the overall UST Program at ABB-ES. Mr. Kaiser is also the Task Order Manager for contamination assessments being conducted at the North Fuel Farm area of NAS Cecil Field.

BRAC Technical Lead. ABB-ES is currently interviewing candidates for this position. The BRAC Technical Lead will work closely with the Task Order Manager, the Installation Manager, the Installation Technical Leader, and other project personnel to provide technical review and oversight for all BRAC project deliverables. The Technical Lead is involved with the day to day technical issues, providing technical review, direction, and technical support. Primary responsibilities include:

- Ensure all BRAC technical documents are consistent, accurate, and conform to all applicable state and federal rules and regulations;

- Ensure that BRAC projects receive adequate oversight guidance, review work-in-progress, and review technical deliverables;

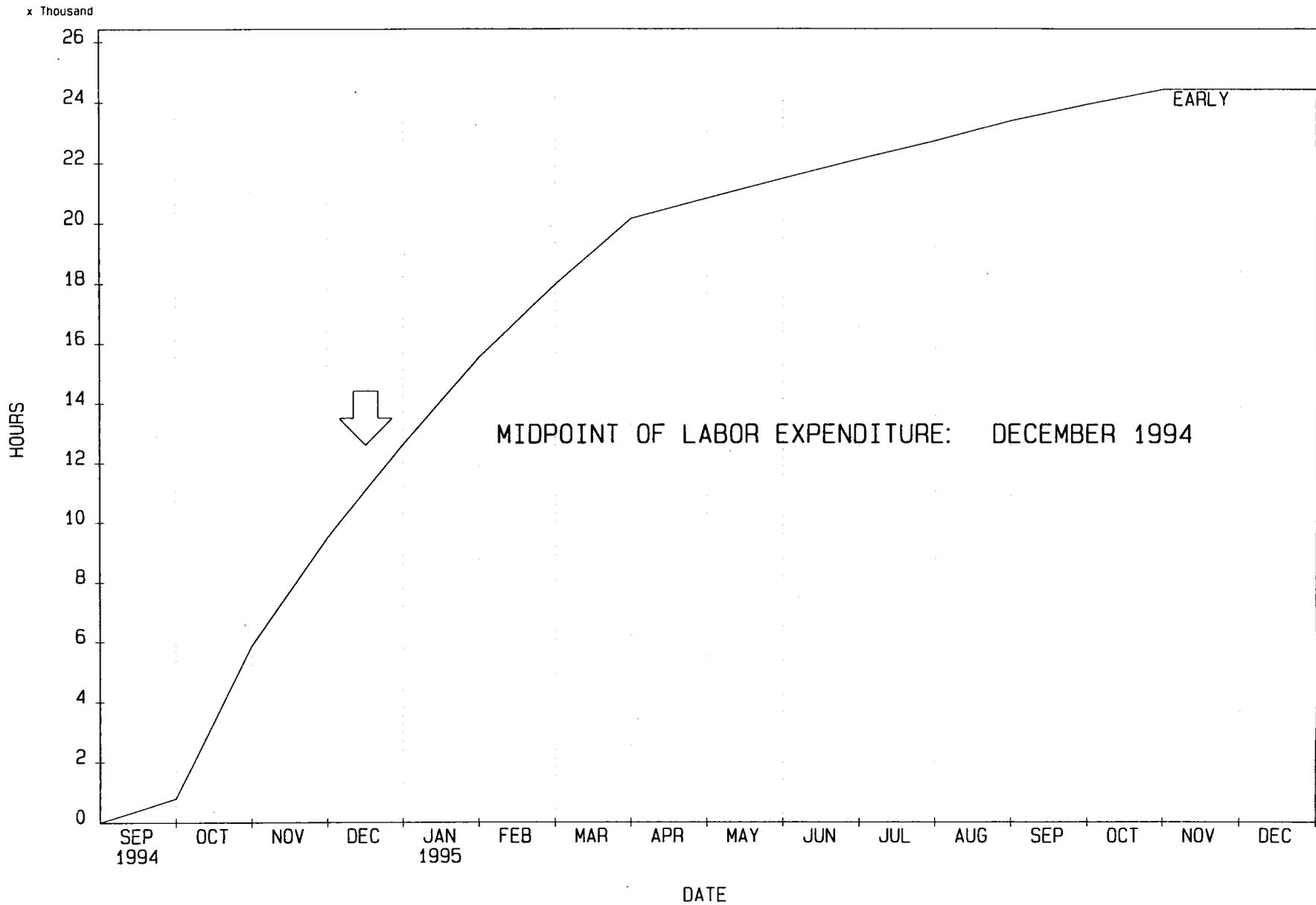
- Provide technical direction and support to daily field and office technical operations; and

- Support the Task Order Manager in identifying the technical resource requirements for implementing project activities.

NAS Cecil Field Installation Technical Leader. Mr. Eric Blomberg is the Installation Technical Leader for the environmental programs being conducted by ABB-ES at NAS Cecil Field. As Installation Technical Leader, Mr. Blomberg will be responsible for the overall technical integrity of all programs being conducted at this facility. He is responsible for coordination and continuity between the three major programs (BRAC, UST, and IR) being conducted at NAS Cecil Field.

ATTACHMENT A
SCHEDULE

ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	1994				1995												
				SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	D	
				PROJECT MANAGEMENT																
Notice To Proceed	21SEP94		0	◊																
Job Startup	21SEP94	27SEP94	5	◻																
Project Management	21SEP94	26OCT95	280	[Bar]																
Job Closeout	3NOV95	4DEC95	20	[Bar]																
Job Complete	5DEC95	4DEC95	0	◊																
				COMMUNITY RELATIONS																
Community Relations Program	28SEP94	26OCT95	275	[Bar]																
RAB/Public Meetings	28SEP94	26OCT95	275	[Bar]																
				REMEDIAL SITE EVALUATION																
Review historical data	28SEP94	4OCT94	5	◻																
				PLANNING DOCUMENTS																
Update BCP	28SEP94	30NOV94	44	[Bar]																
Project Operations Plan	28SEP94	1NOV94	25	[Bar]																
BCP Database Management	28SEP94	2NOV95	280	[Bar]																
WPs for Investigating Remaining IR Sites	28SEP94	20MAR95	120	[Bar]																
Site Management Plans (FY 95 & FY 96)	28SEP94	26OCT95	275	[Bar]																
Prepare Site Management Plan FY 95	28SEP94	22NOV94	40	[Bar]																
Groundwater Monitoring Plan	28SEP94	7SEP95	240	[Bar]																
AOI Sampling & Analysis Outlines (SAOs)	28SEP94	27MAR95	125	[Bar]																
Develop SAOs	28SEP94	22DEC94	60	[Bar]																
Hydrogeological Support Agreement Ext.	28SEP94	26OCT95	275	[Bar]																
Tank Management Support	28SEP94	15DEC94	55	[Bar]																
Develop Tank Management Plan (TMP)	28SEP94	11NOV94	33	[Bar]																
Project Meetings (Technical Staff)	28SEP94	26OCT95	275	[Bar]																
Water/Wastewater Management Plan	28SEP94	3JAN95	66	[Bar]																
Lead Paint Management Plan	28SEP94	21JUL95	207	[Bar]																
PCB Management Plan	28SEP94	21JUL95	207	[Bar]																
Radon Management Plan	28SEP94	21JUL95	207	[Bar]																
Air Management Plan	28SEP94	21JUL95	207	[Bar]																
BRAC CLEAN - UP PLAN (BCP) PROPERTIES	28SEP94	19JAN95	78	[Bar]																
AIR/SOLID WASTE MANAGEMENT PLANS	28SEP94	21JUL95	207	[Bar]																
EBS OF NON-CONTIGUOUS PROPERTIES	28SEP94	22NOV94	40	[Bar]																
Fence-to-fence baseline survey	5OCT94	18OCT94	10	◻																
Prepare Draft EBS Report	19OCT94	10NOV94	17	[Bar]																
Plot Date 15SEP94	Activity Bar/Early Dates			R022 A090													Sheet 1 of 2			
Data Date 19AUG94	Critical Activity			SOW CTO 090 MOD 8 NAS CECIL FIELD													Date	Revision	Checked	Approved
Project Start 8APR93	Progress Bar			BRAC PHASE II SUPPORT																
Project Finish 23OCT96	Milestone/Flag Activity			PROPOSED PROJECT SCHEDULE																
(c) Primavera Systems, Inc.																				



Project Start BAPR93
 Project Finish 23OCT96
 Data Date 19AUG94
 Plot Date 15SEP94

Schedule dates

R022 A090

SOW CTO 090 MOD 8 NAS CECIL FIELD
 BRAC PHASE II SUPPORT
 RESOURCE GRAPHIC SUMMARY

Sheet 1 of 1

ABB-ES, INC. - NAVY CLEAN PROGRAM			
Date	Revision	Checked	Approved

**ATTACHMENT B
COST ESTIMATE**

**ABB ENVIRONMENTAL SERVICES, INC.
TOTAL COST SUMMARY**

**PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field
MANAGER: Lisa Routhier**

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager	731	\$31.20	\$22,807.20	1.846	\$42,102.09
Senior Project Manager					
Task Order Manager – Offsite	106	\$31.20	\$3,307.20	2.25	\$7,441.20
Quality Assurance Manager	32	\$28.52	\$912.64	2.25	\$2,053.44
Project Manager					
Health & Safety Manager	48	\$26.47	\$1,270.56	1.846	\$2,345.45
Associate Project Manager					
Task Order Manager	2283	\$22.57	\$51,527.31	1.846	\$95,119.41
Consulting Engineer/Scientist					
Technical Expert	172	\$36.67	\$6,307.24	1.846	\$11,643.17
Technical Expert – Offsite	324	\$36.67	\$11,881.08	2.25	\$26,732.43
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite	104	\$30.52	\$3,174.08	1.846	\$5,859.35
Sr. Toxicologist – Offsite	56	\$30.52	\$1,709.12	2.25	\$3,845.52
Senior Ecologist	758	\$30.52	\$23,134.16	2.25	\$52,051.86
Senior Engineer	568	\$30.52	\$17,335.36	1.846	\$32,001.07
Senior Scientist	600	\$30.52	\$18,312.00	1.846	\$33,803.95
Senior Engineer/Scientist					
Senior Ecologist	104	\$25.68	\$2,670.72	1.846	\$4,930.15
Senior Ecologist – Offsite	665	\$25.68	\$17,077.20	2.25	\$38,423.70
Senior Engineer – Offsite	94	\$25.68	\$2,413.92	2.25	\$5,431.32
Senior Scientist	2776	\$25.68	\$71,287.68	1.846	\$131,597.06
Senior Scientist – Offsite	765	\$25.68	\$19,645.20	2.25	\$44,201.70
Senior Chemist	1270	\$25.49	\$32,372.30	1.846	\$59,759.27
Senior Hydrologist	128	\$25.68	\$3,287.04	1.846	\$6,067.88
Engineer/Scientist					
Engineer	424	\$19.64	\$8,327.36	1.846	\$15,372.31
Geologist/Hydrologist	4186	\$19.64	\$82,213.04	1.846	\$151,765.27
Geologist – Offsite	260	\$19.64	\$5,106.40	2.25	\$11,489.40
Scientist	412	\$19.64	\$8,091.68	1.846	\$14,937.24
Scientist – Offsite	472	\$19.64	\$9,270.08	2.25	\$20,857.68
Toxicologist – Offsite	150	\$19.64	\$2,946.00	2.25	\$6,628.50
Chemist – Offsite	240	\$18.56	\$4,454.40	2.25	\$10,022.40
Designer					
CAD Operator/Sr. Draftsperson	931	\$17.71	\$16,488.01	1.846	\$30,436.87
Senior Technician					
Project Assistant	1527	\$14.76	\$22,538.52	1.846	\$41,606.11
Project Assistant – Offsite	124	\$14.76	\$1,830.24	2.25	\$4,118.04
Community Relations Specialist	420	\$15.44	\$6,484.80	2.25	\$14,590.80
Computer Programmer	1000	\$15.44	\$15,440.00	1.846	\$28,502.24
Technician	1706	\$14.20	\$24,225.20	1.846	\$44,719.72
Technical Editor	374	\$15.06	\$5,632.44	1.846	\$10,397.48
Clerical					
Clerk/Word Processor	604	\$11.15	\$6,734.60	1.846	\$12,432.07
Clerk/Word Processor – Offsite	78	\$11.15	\$869.70	2.25	\$1,956.83
Subtotal:	24492		\$531,084.48		\$1,025,242.97
Labor Escalation – Management/Administrative:			\$149,061.60	1.026	\$152,937.20
Labor Escalation – Technical/Professional:			\$861,792.48	1.025	\$883,337.29
Labor Escalation – Clerical:			\$14,388.90	1.024	\$14,734.23
Total Labor:			\$1,025,242.97		\$1,051,008.72

ABB ENVIRONMENTAL SERVICES, INC.
TOTAL COST SUMMARY

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field
MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare	47	various	\$30,502.00	1.029	\$31,386.56
Lodging	151	various	\$8,356.00	1.029	\$8,598.32
Per Diem	223	various	\$6,962.00	1.029	\$7,163.90
Car Rental/Fuel	155	\$50.00	\$7,750.00	1.029	\$7,974.75
Total Travel:			\$53,570.00		\$55,123.53
Telephone/Telefax:	839	\$2.20	\$1,845.80	1.029	\$1,899.33
Shipping – Letter/Other	666	various	\$3,918.60	1.029	\$4,032.24
Shipping – Sample Cooler	22	\$85.00	\$1,870.00	1.029	\$1,924.23
Field Supplies – Scope Change	128		\$10,325.28	1.029	\$10,624.71
Field Supplies – Eco. Investigation			\$2,699.72	1.029	\$2,778.01
Equipment Lease			\$4,583.50	1.029	\$4,716.42
Copying – Internal	144604	\$0.04	\$5,784.16	1.029	\$5,951.90
Binders – Spiral	54	\$0.36	\$19.44	1.029	\$20.00
Binders	179	various	\$2,176.05	1.029	\$2,239.16
Report Cover Stock	402	\$0.37	\$148.74	1.029	\$153.05
Tabs	9332	\$0.22	\$2,053.04	1.029	\$2,112.58
Diskettes	32	\$3.90	\$124.80	1.029	\$128.42
CDs	40	\$25.00	\$1,000.00	1.029	\$1,029.00
Computer Usage – Internal	663.6	\$4.70	\$3,118.92	1.029	\$3,209.37
Conference Rooms	17	\$300.00	\$5,100.00	1.029	\$5,247.90
RACER Training	1	\$1,300.00	\$1,300.00	1.029	\$1,337.70
Digitize Base Maps			\$3,000.00	1.029	\$3,087.00
Total Other Direct Costs:			\$49,068.05		\$50,491.02
Analytical Services			\$6,959.59	1.029	\$7,161.42
Data Validation Services			\$11,630.00	1.029	\$11,967.27
Locational Survey			\$5,671.48	1.029	\$5,835.95
UXO Investigation			\$110,592.99	1.029	\$113,800.19
RAD Investigation			\$177,779.97	1.029	\$182,935.59
Management Reports – Wastewater			\$35,900.62	1.029	\$36,941.74
Managment Reports – Air/Solid			\$143,602.49	1.029	\$147,766.96
Color Reproduction	9580	\$0.85	\$8,143.00	1.029	\$8,379.15
E – Sized Drawings	886	\$25.20	\$22,327.20	1.029	\$22,974.69
Community Relations Support			\$155,725.00	1.029	\$160,241.03
Fish Sampling – Subcontractor			\$15,000.00	1.029	\$15,435.00
Earthworm Survival Test	25	\$600.00	\$15,000.00	1.029	\$15,435.00
Lactica Setiva Germination Test	25	\$350.00	\$8,750.00	1.029	\$9,003.75
Hyalloela Azteca Survival Test	16	\$900.00	\$14,400.00	1.029	\$14,817.60
Chirononus Tentas Larval Test	16	\$900.00	\$14,400.00	1.029	\$14,817.60
Total Subcontract Costs:			\$745,882.34		\$767,512.93
TOTAL COST:					\$1,924,136.20
Award Fee – Labor, Travel & ODCs			\$1,156,623.28	0.1	\$115,662.33
Award Fee – Subcontract			\$767,512.93	0.045	\$34,538.08
TOTAL COST PLUS AWARD FEE:					\$2,074,336.61

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 1 – Project Management

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager	591	\$31.20	\$18,439.20	1.846	\$34,038.76
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager	2283	\$22.57	\$51,527.31	1.846	\$95,119.41
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite		\$36.67		2.25	
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer	36	\$30.52	\$1,098.72	1.846	\$2,028.24
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist		\$25.68		1.846	
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist	106	\$19.64	\$2,081.84	1.846	\$3,843.08
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson	8	\$17.71	\$141.68	1.846	\$261.54
Senior Technician					
Project Assistant	1487	\$14.76	\$21,948.12	1.846	\$40,516.23
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor		\$15.06		1.846	
Clerical					
Clerk/Word Processor	32	\$11.15	\$356.80	1.846	\$658.65
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	4543		\$95,593.67		\$176,465.91
Labor Escalation – Management/Administrative:			\$129,158.18	1.026	\$132,516.29
Labor Escalation – Technical/Professional:			\$46,649.08	1.025	\$47,815.31
Labor Escalation – Clerical:			\$658.65	1.024	\$674.46
Total Labor:			\$176,465.91		\$181,006.06

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 1 – Project Management

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare	25	various	\$13,308.00	1.029	\$13,693.93
Lodging	48	various	\$3,032.00	1.029	\$3,119.93
Per Diem	79	various	\$2,594.00	1.029	\$2,669.23
Car Rental/Fuel	59	\$50.00	\$2,950.00	1.029	\$3,035.55
Total Travel:					\$22,518.64
Telephone/Telefax:	180	\$2.20	\$396.00	1.029	\$407.48
Shipping – Letter/Other	120	various	\$434.40	1.029	\$447.00
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal	1824	\$0.04	\$72.96	1.029	\$75.08
Binders – Spiral	24	\$0.36	\$8.64	1.029	\$8.89
Binders		\$6.95		1.029	
Report Cover Stock	48	\$0.37	\$17.76	1.029	\$18.28
Tabs	240	\$0.22	\$52.80	1.029	\$54.33
Diskettes	4	\$3.90	\$15.60	1.029	\$16.05
CDs		\$25.00		1.029	
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms	17	\$300.00	\$5,100.00	1.029	\$5,247.90
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$6,275.01
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid				1.029	
Color Reproduction		\$0.85		1.029	
E–Sized Drawings		\$25.20		1.029	
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					
TOTAL COST:					\$209,799.70
Award Fee – Labor, Travel & ODCs			\$209,799.70	0.1	\$20,979.97
Award Fee – Subcontract				0.045	
TOTAL COST PLUS AWARD FEE:					\$230,779.68

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 2 – EBS of Non–Contiguous Property

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite	26	\$36.67	\$953.42	2.25	\$2,145.20
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer		\$30.52		1.846	
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist	412	\$25.68	\$10,580.16	1.846	\$19,530.98
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer	144	\$19.64	\$2,828.16	1.846	\$5,220.78
Geologist/Hydrologist	290	\$19.64	\$5,695.60	1.846	\$10,514.08
Geologist – Offsite		\$19.64		2.25	
Scientist	204	\$19.64	\$4,006.56	1.846	\$7,396.11
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson	80	\$17.71	\$1,416.80	1.846	\$2,615.41
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor	30	\$15.06	\$451.80	1.846	\$834.02
Clerical					
Clerk/Word Processor	28	\$11.15	\$312.20	1.846	\$576.32
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	1214		\$26,244.70		\$48,832.90
Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:			\$48,256.58	1.025	\$49,462.99
Labor Escalation – Clerical:			\$576.32	1.024	\$590.15
Total Labor:			\$48,832.90		\$50,053.14

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 2 – EBS of Non–Contiguous Property

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare	1	\$576.00	\$576.00	1.029	\$592.70
Lodging	1	\$59.00	\$59.00	1.029	\$60.71
Per Diem	2	\$30.00	\$60.00	1.029	\$61.74
Car Rental/Fuel	2	\$50.00	\$100.00	1.029	\$102.90
Total Travel:					\$818.06
Telephone/Telefax:	12	\$2.20	\$26.40	1.029	\$27.17
Shipping – Letter/Other	30	\$6.50	\$195.00	1.029	\$200.66
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change			\$599.84	1.029	\$617.24
Field Supplies – Eco. Investigation				1.029	
Equipment Lease			\$2,315.50	1.029	\$2,382.65
Copying – Internal	7500	\$0.04	\$300.00	1.029	\$308.70
Binders – Spiral		\$0.36		1.029	
Binders	15	\$13.95	\$209.25	1.029	\$215.32
Report Cover Stock	30	\$0.37	\$11.10	1.029	\$11.42
Tabs	450	\$0.22	\$99.00	1.029	\$101.87
Diskettes	2	\$3.90	\$7.80	1.029	\$8.03
CDs		\$25.00		1.029	
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps			\$3,000.00	1.029	\$3,087.00
Total Other Direct Costs:					\$6,960.04
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid				1.029	
Color Reproduction	60	\$0.85	\$51.00	1.029	\$52.48
E – Sized Drawings	60	\$25.20	\$1,512.00	1.029	\$1,555.85
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$1,608.33
TOTAL COST:					\$59,439.57
Award Fee – Labor, Travel & ODCs			\$57,831.24	0.1	\$5,783.12
Award Fee – Subcontract			\$1,608.33	0.045	\$72.37
TOTAL COST PLUS AWARD FEE:					\$65,295.07

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 3 – BRAC Clean-up Plan Update

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite	60	\$36.67	\$2,200.20	2.25	\$4,950.45
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer	80	\$30.52	\$2,441.60	1.846	\$4,507.19
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist	200	\$25.68	\$5,136.00	1.846	\$9,481.06
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer	280	\$19.64	\$5,499.20	1.846	\$10,151.52
Geologist/Hydrologist		\$19.64		1.846	
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite	280	\$19.64	\$5,499.20	2.25	\$12,373.20
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson	105	\$17.71	\$1,859.55	1.846	\$3,432.73
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer	1000	\$15.44	\$15,440.00	1.846	\$28,502.24
Technician		\$14.20		1.846	
Technical Editor	40	\$15.06	\$602.40	1.846	\$1,112.03
Clerical					
Clerk/Word Processor	100	\$11.15	\$1,115.00	1.846	\$2,058.29
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	2145		\$39,793.15		\$76,568.71
Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:			\$74,510.42	1.025	\$76,373.18
Labor Escalation – Clerical:			\$2,058.29	1.024	\$2,107.69
Total Labor:			\$76,568.71		\$78,480.87

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 3 – BRAC Clean-up Plan Update

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare				1.029	
Lodging	4	various	\$232.00	1.029	\$238.73
Per Diem	7	various	\$210.00	1.029	\$216.09
Car Rental/Fuel	5	\$50.00	\$250.00	1.029	\$257.25
Total Travel:					\$712.07
Telephone/Telefax:	104	\$2.20	\$228.80	1.029	\$235.44
Shipping – Letter/Other	108	\$6.50	\$702.00	1.029	\$722.36
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal	16200	\$0.04	\$648.00	1.029	\$666.79
Binders – Spiral		\$0.36		1.029	
Binders	59	\$10.95	\$646.05	1.029	\$664.79
Report Cover Stock	98	\$0.37	\$36.26	1.029	\$37.31
Tabs	1080	\$0.22	\$237.60	1.029	\$244.49
Diskettes	2	\$3.90	\$7.80	1.029	\$8.03
CDs	40	\$25.00	\$1,000.00	1.029	\$1,029.00
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms		\$300.00		1.029	
RACER Training	1	\$1,300.00	\$1,300.00	1.029	\$1,337.70
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$4,945.90
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid				1.029	
Color Reproduction	4320	\$0.85	\$3,672.00	1.029	\$3,778.49
E – Sized Drawings	648	\$25.20	\$16,329.60	1.029	\$16,803.16
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$20,581.65
TOTAL COST:					\$104,720.49
Award Fee – Labor, Travel & ODCs			\$84,138.84	0.1	\$8,413.88
Award Fee – Subcontract			\$20,581.65	0.045	\$926.17
TOTAL COST PLUS AWARD FEE:					\$114,060.54

ABB ENVIRONMENTAL SERVICES, INC.

Task: 4 – Community Relations Program

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite		\$36.67		2.25	
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer		\$30.52		1.846	
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist		\$25.68		1.846	
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist		\$19.64		1.846	
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson		\$17.71		1.846	
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite	30	\$14.76	\$442.80	2.25	\$996.30
Community Relations Specialist	420	\$15.44	\$6,484.80	2.25	\$14,590.80
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor		\$15.06		1.846	
Clerical					
Clerk/Word Processor		\$11.15		1.846	
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	450		\$6,927.60		\$15,587.10
Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:			\$15,587.10	1.025	\$15,976.78
Labor Escalation – Clerical:				1.024	
Total Labor:			\$15,587.10		\$15,976.78

ABB ENVIRONMENTAL SERVICES, INC.

Task: 4 – Community Relations Program

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare	4	\$682.00	\$2,728.00	1.029	\$2,807.11
Lodging	4	\$50.00	\$200.00	1.029	\$205.80
Per Diem	16	\$30.00	\$480.00	1.029	\$493.92
Car Rental/Fuel	16	\$50.00	\$800.00	1.029	\$823.20
Total Travel:					\$4,330.03
Telephone/Telefax:	208	\$2.20	\$457.60	1.029	\$470.87
Shipping – Letter/Other	18	\$2.90	\$52.20	1.029	\$53.71
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal	620	\$0.04	\$24.80	1.029	\$25.52
Binders – Spiral		\$0.36		1.029	
Binders – 1"		\$6.95		1.029	
Report Cover Stock		\$0.37		1.029	
Tabs		\$0.22		1.029	
Diskettes	4	\$3.90	\$15.60	1.029	\$16.05
CDs		\$25.00		1.029	
Computer Usage – Internal	112	\$4.70	\$526.40	1.029	\$541.67
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$1,107.82
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid				1.029	
Color Reproduction		\$0.85		1.029	
E – Sized Drawings		\$25.20		1.029	
Community Relations Support			\$155,725.00	1.029	\$160,241.03
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$160,241.03
TOTAL COST:					\$181,655.66
Award Fee – Labor, Travel & ODCs			\$21,414.63	0.1	\$2,141.46
Award Fee – Subcontract			\$160,241.03	0.045	\$7,210.85
TOTAL COST PLUS AWARD FEE:					\$191,007.97

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 5 – IR Planning Documents

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite	106	\$31.20	\$3,307.20	2.25	\$7,441.20
Quality Assurance Manager	32	\$28.52	\$912.64	2.25	\$2,053.44
Project Manager					
Health & Safety Manager	48	\$26.47	\$1,270.56	1.846	\$2,345.45
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite	186	\$36.67	\$6,820.62	2.25	\$15,346.40
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite	104	\$30.52	\$3,174.08	1.846	\$5,859.35
Sr. Toxicologist – Offsite	56	\$30.52	\$1,709.12	2.25	\$3,845.52
Senior Ecologist		\$30.52		2.25	
Senior Engineer	348	\$30.52	\$10,620.96	1.846	\$19,606.29
Senior Scientist	462	\$30.52	\$14,100.24	1.846	\$26,029.04
Senior Engineer/Scientist					
Senior Ecologist	104	\$25.68	\$2,670.72	1.846	\$4,930.15
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite	78	\$25.68	\$2,003.04	2.25	\$4,506.84
Senior Scientist	1000	\$25.68	\$25,680.00	1.846	\$47,405.28
Senior Scientist – Offsite	210	\$25.68	\$5,392.80	2.25	\$12,133.80
Senior Chemist	8	\$25.49	\$203.92	1.846	\$376.44
Senior Hydrologist	128	\$25.68	\$3,287.04	1.846	\$6,067.88
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist	2208	\$19.64	\$43,365.12	1.846	\$80,052.01
Geologist – Offsite	260	\$19.64	\$5,106.40	2.25	\$11,489.40
Scientist	208	\$19.64	\$4,085.12	1.846	\$7,541.13
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite	240	\$18.56	\$4,454.40	2.25	\$10,022.40
Designer					
CAD Operator/Sr. Draftsperson	574	\$17.71	\$10,165.54	1.846	\$18,765.59
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite	78	\$14.76	\$1,151.28	2.25	\$2,590.38
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician	616	\$14.20	\$8,747.20	1.846	\$16,147.33
Technical Editor	256	\$15.06	\$3,855.36	1.846	\$7,116.99
Clerical					
Clerk/Word Processor	316	\$11.15	\$3,523.40	1.846	\$6,504.20
Clerk/Word Processor – Offsite	78	\$11.15	\$869.70	2.25	\$1,956.83
Subtotal:	7704		\$166,476.46		\$320,133.33
Labor Escalation – Management/Administrative:			\$11,840.09	1.026	\$12,147.94
Labor Escalation – Technical/Professional:			\$299,832.22	1.025	\$307,328.02
Labor Escalation – Clerical:			\$8,461.02	1.024	\$8,664.09
Total Labor:			\$320,133.33		\$328,140.05

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 5 – IR Planning Documents

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare	7	various	\$6,450.00	1.029	\$6,637.05
Lodging	23	various	\$1,274.00	1.029	\$1,310.95
Per Diem	35	various	\$1,098.00	1.029	\$1,129.84
Car Rental/Fuel	15	\$50.00	\$750.00	1.029	\$771.75
Total Travel:					\$9,849.59
Telephone/Telefax:	235	\$2.20	\$517.00	1.029	\$531.99
Shipping – Letter/Other	138	\$6.50	\$897.00	1.029	\$923.01
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal	80760	\$0.04	\$3,230.40	1.029	\$3,324.08
Binders – Spiral	30	\$0.36	\$10.80	1.029	\$11.11
Binders	64	various	\$748.80	1.029	\$770.52
Report Cover Stock	122	\$0.37	\$45.14	1.029	\$46.45
Tabs	698	\$0.22	\$153.56	1.029	\$158.01
Diskettes	15	\$3.90	\$58.50	1.029	\$60.20
CDs		\$25.00		1.029	
Computer Usage – Internal	323	\$4.70	\$1,518.10	1.029	\$1,562.12
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$7,387.50
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid				1.029	
Color Reproduction		\$0.85		1.029	
E – Sized Drawings	100	\$25.20	\$2,520.00	1.029	\$2,593.08
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$2,593.08
TOTAL COST:					\$347,970.21
Award Fee – Labor, Travel & ODCs			\$345,377.13	0.1	\$34,537.71
Award Fee – Subcontract			\$2,593.08	0.045	\$116.69
TOTAL COST PLUS AWARD FEE:					\$382,624.62

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 6 – IR Field Investigations

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite		\$36.67		2.25	
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist	488	\$30.52	\$14,893.76	2.25	\$33,510.96
Senior Engineer		\$30.52		1.846	
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite	513	\$25.68	\$13,173.84	2.25	\$29,641.14
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist	1116	\$25.68	\$28,658.88	1.846	\$52,904.29
Senior Scientist – Offsite	555	\$25.68	\$14,252.40	2.25	\$32,067.90
Senior Chemist	1262	\$25.49	\$32,168.38	1.846	\$59,382.83
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist	1514	\$19.64	\$29,734.96	1.846	\$54,890.74
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite	96	\$19.64	\$1,885.44	2.25	\$4,242.24
Toxicologist – Offsite	150	\$19.64	\$2,946.00	2.25	\$6,628.50
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson		\$17.71		1.846	
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician	1090	\$14.20	\$15,478.00	1.846	\$28,572.39
Technical Editor		\$15.06		1.846	
Clerical					
Clerk/Word Processor		\$11.15		1.846	
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	6784		\$153,191.66		\$301,840.99
Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:			\$301,840.99	1.025	\$309,387.01
Labor Escalation – Clerical:				1.024	
Total Labor:			\$301,840.99		\$309,387.01

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 6 – IR Field Investigations

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare	9	various	\$6,746.00	1.029	\$6,941.63
Lodging	66	various	\$3,300.00	1.029	\$3,395.70
Per Diem	75	various	\$2,250.00	1.029	\$2,315.25
Car Rental/Fuel	51	\$50.00	\$2,550.00	1.029	\$2,623.95
Total Travel:					\$15,276.53
Telephone/Telefax:	35	\$2.20	\$77.00	1.029	\$79.23
Shipping – Letter/Other		\$6.50		1.029	
Shipping – Sample Cooler	22	\$85.00	\$1,870.00	1.029	\$1,924.23
Field Supplies – Scope Change	128	\$75.98	\$9,725.44	1.029	\$10,007.48
Field Supplies – Eco. Investigation			\$2,699.72	1.029	\$2,778.01
Equipment Lease			\$2,268.00	1.029	\$2,333.77
Copying – Internal		\$0.04		1.029	
Binders – Spiral		\$0.36		1.029	
Binders – 1"		\$6.95		1.029	
Report Cover Stock		\$0.37		1.029	
Tabs		\$0.22		1.029	
Diskettes		\$3.90		1.029	
CDs		\$25.00		1.029	
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$17,122.72
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey			\$5,671.48	1.029	\$5,835.95
UXO Investigation			\$110,592.99	1.029	\$113,800.19
RAD Investigation			\$177,779.97	1.029	\$182,935.59
Management Reports – Wastewater				1.029	
Managment Reports – Air/Solid				1.029	
Color Reproduction		\$0.85		1.029	
E – Sized Drawings		\$25.20		1.029	
Community Relations Support				1.029	
Fish Sampling – Subcontractor			\$15,000.00	1.029	\$15,435.00
Earthworm Survival Test	25	\$600.00	\$15,000.00	1.029	\$15,435.00
Lactica Setiva Germination Test	25	\$350.00	\$8,750.00	1.029	\$9,003.75
Hyalalela Azteca Survival Test	16	\$900.00	\$14,400.00	1.029	\$14,817.60
Chirononus Tentas Larval Test	16	\$900.00	\$14,400.00	1.029	\$14,817.60
Total Subcontract Costs:					\$372,080.68
TOTAL COST:					\$713,866.95
Award Fee – Labor, Travel & ODCs			\$341,786.27	0.1	\$34,178.63
Award Fee – Subcontract			\$372,080.68	0.045	\$16,743.63
TOTAL COST PLUS AWARD FEE:					\$764,789.21

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 7 – Laboratory Analysis

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite		\$36.67		2.25	
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer		\$30.52		1.846	
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist		\$25.68		1.846	
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist		\$19.64		1.846	
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson		\$17.71		1.846	
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor		\$15.06		1.846	
Clerical					
Clerk/Word Processor		\$11.15		1.846	
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:					
Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:				1.025	
Labor Escalation – Clerical:				1.024	
Total Labor:					

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 7 – Laboratory Analysis

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare				1.029	
Lodging				1.029	
Per Diem				1.029	
Car Rental/Fuel		\$50.00		1.029	
Total Travel:					
Telephone/Telefax:	10	\$2.20	\$22.00	1.029	\$22.64
Shipping – Letter/Other		\$6.50		1.029	
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal		\$0.04		1.029	
Binders – Spiral		\$0.36		1.029	
Binders – 1*		\$6.95		1.029	
Report Cover Stock		\$0.37		1.029	
Tabs		\$0.22		1.029	
Diskettes		\$3.90		1.029	
CDs		\$25.00		1.029	
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$22.64
Analytical Services			\$6,959.59	1.029	\$7,161.42
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid				1.029	
Color Reproduction		\$0.85		1.029	
E – Sized Drawings		\$25.20		1.029	
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$7,161.42
TOTAL COST:					\$7,184.06
Award Fee – Labor, Travel & ODCs			\$22.64	0.1	\$2.26
Award Fee – Subcontract			\$7,161.42	0.045	\$322.26
TOTAL COST PLUS AWARD FEE:					\$7,508.58

ATTN: Mike Payne

ABB ENVIRONMENTAL SERVICES, INC.

FAXED
09-29

TASK: 8 – Data Validation
PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field
MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite		\$36.67		2.25	
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer		\$30.52		1.846	
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist		\$25.68		1.846	
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist		\$19.64		1.846	
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson		\$17.71		1.846	
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor		\$15.06		1.846	
Clerical					
Clerk/Word Processor		\$11.15		1.846	
Clerk/Word Processor – Offsite		\$11.15		2.25	

Subtotal:

Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:				1.025	
Labor Escalation – Clerical:				1.024	

Total Labor:

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 8 – Data Validation

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare				1.029	
Lodging				1.029	
Per Diem				1.029	
Car Rental/Fuel		\$50.00		1.029	
Total Travel:					
Telephone/Telefax:	10	\$2.20	\$22.00	1.029	\$22.64
Shipping – Letter/Other		\$6.50		1.029	
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal		\$0.04		1.029	
Binders – Spiral		\$0.36		1.029	
Binders – 1"		\$6.95		1.029	
Report Cover Stock		\$0.37		1.029	
Tabs		\$0.22		1.029	
Diskettes		\$3.90		1.029	
CDs		\$25.00		1.029	
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$22.64
Analytical Services				1.029	
Data Validation Services			\$11,630.00	1.029	\$11,967.27
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid				1.029	
Color Reproduction		\$0.85		1.029	
E – Sized Drawings		\$25.20		1.029	
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$11,967.27
TOTAL COST:					\$11,989.91
Award Fee – Labor, Travel & ODCs			\$22.64	0.1	\$2.26
Award Fee – Subcontract			\$11,967.27	0.045	\$538.53
TOTAL COST PLUS AWARD FEE:					\$12,530.70

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 9 – IR Data Evaluation and Reports

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite	28	\$36.67	\$1,026.76	2.25	\$2,310.21
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist	270	\$30.52	\$8,240.40	2.25	\$18,540.90
Senior Engineer	16	\$30.52	\$488.32	1.846	\$901.44
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite	152	\$25.68	\$3,903.36	2.25	\$8,782.56
Senior Engineer – Offsite	16	\$25.68	\$410.88	2.25	\$924.48
Senior Scientist		\$25.68		1.846	
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist		\$19.64		1.846	
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite	96	\$19.64	\$1,885.44	2.25	\$4,242.24
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson	64	\$17.71	\$1,133.44	1.846	\$2,092.33
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite	16	\$14.76	\$236.16	2.25	\$531.36
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor	16	\$15.06	\$240.96	1.846	\$444.81
Clerical					
Clerk/Word Processor	88	\$11.15	\$981.20	1.846	\$1,811.30
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	762		\$18,546.92		\$40,581.63
Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:			\$38,770.33	1.025	\$39,739.59
Labor Escalation – Clerical:			\$1,811.30	1.024	\$1,854.77
Total Labor:			\$40,581.63		\$41,594.36

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 9 – IR Data Evaluation and Reports

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare	1	\$694.00	\$694.00	1.029	\$714.13
Lodging	1	\$59.00	\$59.00	1.029	\$60.71
Per Diem	2	\$30.00	\$60.00	1.029	\$61.74
Car Rental/Fuel	2	\$50.00	\$100.00	1.029	\$102.90
Total Travel:					\$939.48
Telephone/Telefax:	10	\$2.20	\$22.00	1.029	\$22.64
Shipping – Letter/Other	104	\$6.50	\$676.00	1.029	\$695.60
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal	24700	\$0.04	\$988.00	1.029	\$1,016.65
Binders – Spiral		\$0.36		1.029	
Binders – 3"	26	\$13.95	\$362.70	1.029	\$373.22
Report Cover Stock	78	\$0.37	\$28.86	1.029	\$29.70
Tabs	624	\$0.22	\$137.28	1.029	\$141.26
Diskettes	4	\$3.90	\$15.60	1.029	\$16.05
CDs		\$25.00		1.029	
Computer Usage – Internal	228.6	\$4.70	\$1,074.42	1.029	\$1,105.58
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$3,400.70
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation <i>Repairs</i>				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid				1.029	
Color Reproduction		\$0.85		1.029	
E – Sized Drawings	78	\$25.20	\$1,965.60	1.029	\$2,022.60
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$2,022.60
TOTAL COST:					\$47,957.14
Award Fee – Labor, Travel & ODCs			\$45,934.53	0.1	\$4,593.45
Award Fee – Subcontract			\$2,022.60	0.045	\$91.02
TOTAL COST PLUS AWARD FEE:					\$52,641.61

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 10 – Tank Management

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager	140	\$31.20	\$4,368.00	1.846	\$8,063.33
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert	172	\$36.67	\$6,307.24	1.846	\$11,643.17
Technical Expert – Offsite		\$36.67		2.25	
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer		\$30.52		1.846	
Senior Scientist	138	\$30.52	\$4,211.76	1.846	\$7,774.91
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist		\$25.68		1.846	
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist	68	\$19.64	\$1,335.52	1.846	\$2,465.37
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson	100	\$17.71	\$1,771.00	1.846	\$3,269.27
Senior Technician					
Project Assistant	40	\$14.76	\$590.40	1.846	\$1,089.88
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor	32	\$15.06	\$481.92	1.846	\$889.62
Clerical					
Clerk/Word Processor	40	\$11.15	\$446.00	1.846	\$823.32
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	730		\$19,511.84		\$36,018.86
Labor Escalation – Management/Administrative:			\$8,063.33	1.026	\$8,272.97
Labor Escalation – Technical/Professional:			\$27,132.21	1.025	\$27,810.52
Labor Escalation – Clerical:			\$823.32	1.024	\$843.08
Total Labor:			\$36,018.86		\$36,926.57

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 10 – Tank Management

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare				1.029	
Lodging	4	\$50.00	\$200.00	1.029	\$205.80
Per Diem	7	\$30.00	\$210.00	1.029	\$216.09
Car Rental/Fuel	5	\$50.00	\$250.00	1.029	\$257.25
Total Travel:					\$679.14
Telephone/Telefax:	25	\$2.20	\$55.00	1.029	\$56.60
Shipping – Letter/Other	22	\$6.50	\$143.00	1.029	\$147.15
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal	13000	\$0.04	\$520.00	1.029	\$535.08
Binders – Spiral		\$0.36		1.029	
Binders	15	\$13.95	\$209.25	1.029	\$215.32
Report Cover Stock	26	\$0.37	\$9.62	1.029	\$9.90
Tabs	6240	\$0.22	\$1,372.80	1.029	\$1,412.61
Diskettes	1	\$3.90	\$3.90	1.029	\$4.01
CDs		\$25.00		1.029	
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$2,380.66
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Managment Reports – Air/Solid				1.029	
Color Reproduction	5200	\$0.85	\$4,420.00	1.029	\$4,548.18
E – Sized Drawings		\$25.20		1.029	
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$4,548.18
TOTAL COST:					\$44,534.55
Award Fee – Labor, Travel & ODCs			\$39,986.37	0.1	\$3,998.64
Award Fee – Subcontract			\$4,548.18	0.045	\$204.67
TOTAL COST PLUS AWARD FEE:					\$48,737.86

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 11 – Water/Wastewater Management Plan

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite	4	\$36.67	\$146.68	2.25	\$330.03
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer	16	\$30.52	\$488.32	1.846	\$901.44
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist	8	\$25.68	\$205.44	1.846	\$379.24
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist		\$19.64		1.846	
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson		\$17.71		1.846	
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor		\$15.06		1.846	
Clerical					
Clerk/Word Processor		\$11.15		1.846	
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	28		\$840.44		\$1,610.71
Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:			\$1,610.71	1.025	\$1,650.98
Labor Escalation – Clerical:				1.024	
Total Labor:			\$1,610.71		\$1,650.98

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 11 – Water/Wastewater Management Plan

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare				1.029	
Lodging				1.029	
Per Diem				1.029	
Car Rental/Fuel		\$50.00		1.029	
Total Travel:					
Telephone/Telefax:	5	\$2.20	\$11.00	1.029	\$11.32
Shipping – Letter/Other	18	\$6.50	\$117.00	1.029	\$120.39
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal		\$0.04		1.029	
Binders – Spiral		\$0.36		1.029	
Binders – 1"		\$6.95		1.029	
Report Cover Stock		\$0.37		1.029	
Tabs		\$0.22		1.029	
Diskettes		\$3.90		1.029	
CDs		\$25.00		1.029	
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$131.71
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater			\$35,900.62	1.029	\$36,941.74
Managment Reports – Air/Sojid				1.029	
Color Reproduction		\$0.85		1.029	
E – Sized Drawings		\$25.20		1.029	
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallega Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$36,941.74
TOTAL COST:					\$38,724.43
Award Fee – Labor, Travel & ODCs			\$1,782.69	0.1	\$178.27
Award Fee – Subcontract			\$36,941.74	0.045	\$1,662.38
TOTAL COST PLUS AWARD FEE:					\$40,565.08

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 12 – Air/Solid Waste Management Plans

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Principal Project Manager					
Installation Manager		\$31.20		1.846	
Senior Project Manager					
Task Order Manager – Offsite		\$31.20		2.25	
Quality Assurance Manager		\$28.52		2.25	
Project Manager					
Health & Safety Manager		\$26.47		1.846	
Associate Project Manager					
Task Order Manager		\$22.57		1.846	
Consulting Engineer/Scientist					
Technical Expert		\$36.67		1.846	
Technical Expert – Offsite	20	\$36.67	\$733.40	2.25	\$1,650.15
Principal Engineer/Scientist					
Sr. Toxicologist – Onsite		\$30.52		1.846	
Sr. Toxicologist – Offsite		\$30.52		2.25	
Senior Ecologist		\$30.52		2.25	
Senior Engineer	72	\$30.52	\$2,197.44	1.846	\$4,056.47
Senior Scientist		\$30.52		1.846	
Senior Engineer/Scientist					
Senior Ecologist		\$25.68		1.846	
Senior Ecologist – Offsite		\$25.68		2.25	
Senior Engineer – Offsite		\$25.68		2.25	
Senior Scientist	40	\$25.68	\$1,027.20	1.846	\$1,896.21
Senior Scientist – Offsite		\$25.68		2.25	
Senior Chemist		\$25.49		1.846	
Senior Hydrologist		\$25.68		1.846	
Engineer/Scientist					
Engineer		\$19.64		1.846	
Geologist/Hydrologist		\$19.64		1.846	
Geologist – Offsite		\$19.64		2.25	
Scientist		\$19.64		1.846	
Scientist – Offsite		\$19.64		2.25	
Toxicologist – Offsite		\$19.64		2.25	
Chemist – Offsite		\$18.56		2.25	
Designer					
CAD Operator/Sr. Draftsperson		\$17.71		1.846	
Senior Technician					
Project Assistant		\$14.76		1.846	
Project Assistant – Offsite		\$14.76		2.25	
Community Relations Specialist		\$15.44		2.25	
Computer Programmer		\$15.44		1.846	
Technician		\$14.20		1.846	
Technical Editor		\$15.06		1.846	
Clerical					
Clerk/Word Processor		\$11.15		1.846	
Clerk/Word Processor – Offsite		\$11.15		2.25	
Subtotal:	132		\$3,958.04		\$7,602.84
Labor Escalation – Management/Administrative:				1.026	
Labor Escalation – Technical/Professional:			\$7,602.84	1.025	\$7,792.91
Labor Escalation – Clerical:				1.024	
Total Labor:			\$7,602.84		\$7,792.91

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 12 – Air/Solid Waste Management Plans

PROJECT: CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

MANAGER: Lisa Routhier

Description	Base	Rate	Subtotal	Multiplier	Total
Air Fare				1.029	
Lodging				1.029	
Per Diem				1.029	
Car Rental/Fuel		\$50.00		1.029	
Total Travel:					
Telephone/Telefax:	5	\$2.20	\$11.00	1.029	\$11.32
Shipping – Letter/Other	108	\$6.50	\$702.00	1.029	\$722.36
Shipping – Sample Cooler		\$85.00		1.029	
Field Supplies – Scope Change				1.029	
Field Supplies – Eco. Investigation				1.029	
Equipment Lease				1.029	
Copying – Internal		\$0.04		1.029	
Binders – Spiral		\$0.36		1.029	
Binders – 1"		\$6.95		1.029	
Report Cover Stock		\$0.37		1.029	
Tabs		\$0.22		1.029	
Diskettes		\$3.90		1.029	
CDs		\$25.00		1.029	
Computer Usage – Internal		\$4.70		1.029	
Conference Rooms		\$300.00		1.029	
RACER Training		\$1,300.00		1.029	
Digitize Base Maps				1.029	
Total Other Direct Costs:					\$733.68
Analytical Services				1.029	
Data Validation Services				1.029	
Locational Survey				1.029	
UXO Investigation				1.029	
RAD Investigation				1.029	
Management Reports – Wastewater				1.029	
Management Reports – Air/Solid			\$143,602.49	1.029	\$147,766.96
Color Reproduction		\$0.85		1.029	
E–Sized Drawings		\$25.20		1.029	
Community Relations Support				1.029	
Fish Sampling – Subcontractor				1.029	
Earthworm Survival Test		\$600.00		1.029	
Lactica Setiva Germination Test		\$350.00		1.029	
Hyallolela Azteca Survival Test		\$900.00		1.029	
Chirononus Tentas Larval Test		\$900.00		1.029	
Total Subcontract Costs:					\$147,766.96
TOTAL COST:					\$156,293.54
Award Fee – Labor, Travel & ODCs			\$8,526.58	0.1	\$852.66
Award Fee – Subcontract			\$147,766.96	0.045	\$6,649.51
TOTAL COST PLUS AWARD FEE:					\$163,795.72

**ATTACHMENT C
TRAVEL ESTIMATE**

ABB Environmental Services, Inc.
Travel Estimate
CTO #090/Modification – BRAC Phase II at NAS Cecil Field

Task: 1 – Project Management

Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				No. Flites	Unit Rate	Total Cost	No. Nites	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost
Proj, Mgrs Meeting	UST IM	Talla.	Jack'ville				12	\$50	\$600	18	\$30	\$540	18	\$50	\$900
	BRAC IM	Jack'ville	Atlanta	4	\$498	\$1,992	4	\$81	\$324	8	\$38	\$304			
	BRAC IM	Jack'ville	Chas., SC	4	\$576	\$2,304	8	\$59	\$472	12	\$30	\$360			
	Assoc. TM	Jack'ville	Atlanta	10	\$498	\$4,980	10	\$81	\$810	20	\$38	\$760	20	\$50	\$1,000
	Assoc. TM	Jack'ville	Chas., SC	7	\$576	\$4,032	14	\$59	\$826	21	\$30	\$630	21	\$50	\$1,050
Total Travel:				25		\$13,308	48		\$3,032	79		\$2,594	59		\$2,950

Task: 2 – EBS of Non-Contiguous Properties

Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				No. Flites	Unit Rate	Total Cost	No. Nites	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost
Data Collection	Scientist	Jack'ville	Chas., SC	1	\$576	\$576	1	\$59	\$59	2	\$30	\$60	2	\$50	\$100
Total Travel:				1		\$576	1		\$59	2		\$60	2		\$100

ABB Environmental Services, Inc.
Travel Estimate
CTO #090/Modification – BRAC Phase II at NAS Cecil Field

Task: 3 – BRAC Cleanup Plan

Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				No. Flites	Unit Rate	Total Cost	No. Nites	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost
BCP Update	CF IM	Talla.	Jack'ville				1	\$50	\$50	2	\$30	\$60	2	\$50	\$100
Review	Sr. Sci.	Talla.	Jack'ville				1	\$50	\$50	2	\$30	\$60			
Racer Class	Scientist	Jack'ville	Ft Walton				2	\$66	\$132	3	\$30	\$90	3	\$50	\$150
Total Travel:							4		\$232	7		\$210	5		\$250

Task: 4 – Community Relations Program

Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				No. Flites	Unit Rate	Total Cost	No. Nites	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost
Public	CR Spec.	Arlington	Jack'ville	4	\$682	\$2,728	4	\$50	\$200	8	\$30	\$240	8	\$50	\$400
Meetings	CF IM	Talla.	Jack'ville							8	\$30	\$240	8	\$50	\$400
Total Travel:				4		\$2,728	4		\$200	16		\$480	16		\$800

ABB Environmental Services, Inc.
Travel Estimate
CTO #090/Modification – BRAC Phase II at NAS Cecil Field

Task: 5 – IR Planning Documents

Purpose	Traveller	Origin	Destina- tion	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				No. Flites	Unit Rate	Total Cost	No. Nites	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost
POP Site Visit	Task Mgr	Wakefield	Jack'ville	1	\$986	\$986	2	\$50	\$100	3	\$30	\$90	3	\$50	\$150
	Sr. Sci.	Wakefield	Jack'ville	1	\$986	\$986	2	\$50	\$100	3	\$30	\$90			
	Pr. Tox.	Wakefield	Jack'ville	1	\$986	\$986	2	\$50	\$100	3	\$30	\$90			
POP Review	Task Mgr	Wakefield	Jack'ville	1	\$986	\$986	1	\$50	\$50	2	\$30	\$60	2	\$50	\$100
	Sr. Sci.	Wakefield	Jack'ville	1	\$986	\$986	1	\$50	\$50	2	\$30	\$60			
Site Visit for IR WPs	Pr. Sci.	Talla.	Jack'ville				2	\$50	\$100	3	\$30	\$90	3	\$50	\$150
	Sr. Eco.	Talla.	Jack'ville				2	\$50	\$100	3	\$30	\$90			
	Pr. Tox.	Talla.	Jack'ville				2	\$50	\$100	3	\$30	\$90			
	Geologist	Talla.	Jack'ville				2	\$50	\$100	3	\$30	\$90			
IR WPs Rvw Mtg	Tech Expt	Portland	Atlanta	1	\$986	\$986	2	\$81	\$162	3	\$38	\$114	3	\$50	\$150
	Pr. Sci.	Talla.	Atlanta	1	\$534	\$534	2	\$81	\$162	3	\$38	\$114			
AOI Strategy Meeting	Sr. Sci.	Talla.	Jack'ville				3	\$50	\$150	4	\$30	\$120	4	\$50	\$200
Total Travel:				7		\$6,450	23		\$1,274	35		\$1,098	15		\$750

ABB Environmental Services, Inc.
Travel Estimate
CTO #090/Modification – BRAC Phase II at NAS Cecil Field

Task: 6 – IR Field Investigation

Purpose	Traveller	Origin	Destina- tion	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				No. Flites	Unit Rate	Total Cost	No. Nites	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost
Soil Samples Tox. Test	Sr. Eco.	Arlington	Jack'ville	1	\$682	\$682	8	\$50	\$400	9	\$30	\$270	9	\$50	\$450
Collect Sed. Samples – Tox Testing	Sr. Eco.	Arlington	Jack'ville	1	\$682	\$682	6	\$50	\$300	7	\$30	\$210	7	\$50	\$350
	Scientist	Arlington	Jack'ville	1	\$682	\$682	6	\$50	\$300	7	\$30	\$210			
Fish Sampling	Pr. Eco.	Arlington	Jack'ville	1	\$682	\$682	4	\$50	\$200	5	\$30	\$150	5	\$50	\$250
Habitat Mapping	Pr. Eco.	Arlington	Jack'ville	1	\$682	\$682	11	\$50	\$550	12	\$30	\$360	12	\$50	\$600
	Sr. Eco.	Arlington	Jack'ville	1	\$682	\$682	11	\$50	\$550	12	\$30	\$360			
Wetlands Mapping	Sr. Eco.	Wakefield	Jack'ville	1	\$986	\$986	4	\$50	\$200	5	\$30	\$150	5	\$50	\$250
	Sr. Eco.	Arlington	Jack'ville	1	\$682	\$682	4	\$50	\$200	5	\$30	\$150			
Geophysical Survey	Sr Sci	Portland	Jack'ville	1	\$986	\$986	12	\$50	\$600	13	\$30	\$390	13	\$50	\$650
Total Travel:				9		\$6,746	66		\$3,300	75		\$2,250	51		\$2,550

Task: 9 – IR Reports

Purpose	Traveller	Origin	Destina- tion	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				No. Flites	Unit Rate	Total Cost	No. Nites	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost
Eco Report	Pr. Eco.	Arlington	Chas., SC	1	\$694	\$694	1	\$59	\$59	2	\$30	\$60	2	\$50	\$100
Total Travel:				1		\$694	1		\$59	2		\$60	2		\$100

ABB Environmental Services, Inc.
Travel Estimate
CTO #090/Modification – BRAC Phase II at NAS Cecil Field

Task: 10 – Tank Management

Purpose	Traveller	Origin	Destina- tion	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				No. Flites	Unit Rate	Total Cost	No. Nites	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost	No. Days	Unit Rate	Total Cost
Site Visit Plan	Pr. Sci.	Talla.	Jack'ville				2	\$50	\$100	3	\$30	\$90	3	\$50	\$150
TMP Review	UST IM	Talla.	Jack'ville				1	\$50	\$50	2	\$30	\$60	2	\$50	\$100
	Pr. Sci.	Talla.	Jack'ville				1	\$50	\$50	2	\$30	\$60			
Total Travel:							4		\$200	7		\$210	5		\$250

**ATTACHMENT D
OTHER DIRECT COSTS**

ABB Environmental Services, Inc.
 CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

Document Production & Mailing Costs

Task	Document Title	Reproduction Costs			Color Copying			Report Production				E-Sized Drwing	Qty Disks	Qty CDs	Qty Mailing	
		Qty Copies	Qty Pages	Total Pages	Qty Copies	Qty Pages	Total Pages	Qty Binders	Type Binder	Qty Tabs	Cover Stock					
1.1.2	Meeting Minutes															
	Proj. Mgrs Meetings	90	4	360									3			90
	Mgmt Plan Rvw	3	4	12												3
	Cost Mgmt Plan Rvw	3	4	12												3
1.2	Draft Cost Mgmt Plan	11	60	660				11	Spiral	110	22		1			11
1.2	Final Cost Mgmt Plan	13	60	780				13	Spiral	130	26					13
Subtotal Task 1:				1824				24		240	48		4			120
2.0	Draft EBS	15	250	3750	15	2	30	15	3*	225	15	30	2			15
	Final EBS	15	250	3750	15	2	30			225	15	30				15
Subtotal Task 2:				7500			60	15	3*	450	30	60	2			30
3.1	BCP Update #1															
	Draft	49	150	7350	49	40	1960	49	2*	490	49	294	2			49
	Final	59	150	8850	59	40	2360	10	2*	590	49	354				59
3.2	Database Update														40	
Subtotal Task 3 – BCP Update				16200			4320	59	2*	1080	98	648	2	40		108
4.1	Comm. Relations Data	1	500	500										2		14
4.2	Meeting Minutes	12	10	120										2		4
Subtotal Task 4 – Comm. Relations:				620										4		18

ABB Environmental Services, Inc.
 CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

Document Production & Mailing Costs

Task	Document Title	Reproduction Costs			Color Copying			Report Production				E- Sized Drwing	Qty Disks	Qty CDs	Qty Mailing	
		Qty Copies	Qty Pages	Total Pages	Qty Copies	Qty Pages	Total Pages	Qty Binders	Type Binder	Qty Tabs	Cover Stock					
5.1	Proj. Ops Plan															
	Draft	9	250	2250				18	2"	90	18	45	1		9	
	Final	11	250	2750				4	2"	110	4	55			11	
5.2	IR Workplans															
	Draft	26	250	6500				26	2"	130	26		1		26	
	Final	26	250	6500						130					26	
5.3	Site Mgmt Plan	26	40	1040				26	Spiral	78	52		1		26	
5.4	GW Well Inventory	16	2520	40320				16	3"	160	16		1		16	
5.5	AOI SAOs															
	Draft	9	1050	9450									10		9	
	Final	11	1050	11550											11	
5.6	Hydro Support	4	100	400				4	Spiral		6		1		4	
Subtotal Task 5:				80760				30	Spiral	698	122	100	15		138	
								48	2"							
								16	3"							
9.1	Eco. Report															
	Draft	26	300	7800				26	3"	208	26	26	4		26	
	Draft – Final	26	300	7800						208	26	26			26	
	Final	26	300	7800						208	26	26			26	
	Basewide Assessment	26	50	1300											26	
Subtotal Task 9:				24700				26	3"	624	78	78	4		104	

ABB Environmental Services, Inc.
 CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

Document Production & Mailing Costs

Task	Document Title	Reproduction Costs			Color Copying			Report Production				E-Sized Drwing	Qty Disks	Qty CDs	Qty Mailing	
		Qty Copies	Qty Pages	Total Pages	Qty Copies	Qty Pages	Total Pages	Qty Binders	Type Binder	Qty Tabs	Cover Stock					
10.1	Tank Mgmt Plan															
	Draft	11	500	5500	11	200	2200	11	3"	2640	11		1			9
	Final	15	500	7500	15	200	3000	4	3"	3600	15					13
Subtotal Task 10:				13000			5200	15		6240	26		1			22

ABB Environmental Services, Inc.
Equipment and Expendable Supply Costs
CTO #090/Modification – BRAC Phase II for NAS Cecil Field
Task 6 – Ecological Field Investigation

Item Description	U/M	Qty	Unit Price	Total Price
Field Office Trailer				
Sharpies, thin-lined	12/box	1	\$13.08	\$13.08
Sharpies, fat-lined	12/box	1	\$13.08	\$13.08
Hard-cover field books	each	1	\$9.95	\$9.95
Photographic Documentation				
35-mm film	3/box	1	\$9.98	\$9.98
Film processing	roll	6	\$12.00	\$72.00
Soil Sampling				
Stainless steel spoons	each	10	\$5.90	\$59.00
Stainless steel trowels	each	10	\$21.50	\$215.00
Ziploc baggies, gallon	250/box	1	\$12.87	\$12.87
Flags, survey	package	25	\$51.50	\$1,287.50
Sample Shipping Materials				
Coolers, 16 quart	each	10	\$14.97	\$149.70
Tape:				
Duct	roll	4	\$2.97	\$11.88
Strapping	roll	4	\$3.10	\$12.40
Tape dispensers:				
1" size	each	1	\$17.94	\$17.94
Decontamination of Sampling Equipment				
Industro stainless steel sprayer	each	3	\$79.50	\$238.50
Decon brushes	each	2	\$1.99	\$3.98
Alconox	case	1	\$62.64	\$62.64
Teflon squeeze bottles	2/box	1	\$116.97	\$116.97
Visqueene	roll	1	\$3.30	\$3.30
Clean Storage				
Large garbage bags	roll	1	\$5.97	\$5.97
Aluminum foil, 1000' roll	each	2	\$45.00	\$90.00
Dermal Body Protection				
Tyvek -- PVC	12/pack	1	\$49.08	\$49.08
Rain gear	each	2	\$10.25	\$20.50

ABB Environmental Services, Inc.
Equipment and Expendable Supply Costs
CTO #090/Modification – BRAC Phase II for NAS Cecil Field
Task 6 – Ecological Field Investigation

Item Description	U/M	Qty	Unit Price	Total Price
Gloves				
Latex gloves	1000/case	1	\$134.50	\$134.50
Nitrile	12 pairs	1	\$21.90	\$21.90
Health & Safety Precautionary Equipment				
First aid boxes	each	1	\$32.15	\$32.15
Eye wash, double station	each	1	\$35.85	\$35.85
Total Estimated Cost:				\$2,699.72

**ABB Environmental Services, Inc.
 CTO #090/Modification – BRAC Phase II at NAS Cecil Field
 Equipment Lease Costs**

Geophysical Survey

Description	No. Days	Daily Rate	Total Price
GEM Walking Magnetometer	14	\$37.00	\$518.00
GEM Mobilization	1	\$150.00	\$150.00
Trimble Pro Lite GPS System	1	\$1,400.00	\$1,400.00
Shipping	1	\$200.00	\$200.00
Total Equipment Lease Cost:			\$2,268.00

Magnetometer Survey for EBS

Description	No. Days	Daily Rate	Total Price
GSSI SIR System III Ground Radar	6	\$244.50	\$1,467.00
Metal Detector – Fisher TW-6	6	\$15.50	\$93.00
Car Rental – Company Car	8	\$35.00	\$280.00
Shipping	150	\$3.17	\$475.50
Total Equipment Lease Cost:			\$2,315.50

ATTACHMENT
SUBCONTRACTOR COST ESTIMATE

ABB Environmental Services, Inc.
 CTO #090/Modification – BRAC Phase II Activities at NAS Cecil Field

Subcontract Estimate for Laboratory Analysis

Description	Matrix	Level	Qty	Unit Price	Total Price
TCL Volatiles	Soil	D	302	\$243.58	\$73,561.16
	Water	D	153	\$226.44	\$34,645.32
TCL Semivolatiles	Soil	D	302	\$463.41	\$139,949.82
	Water	D	143	\$446.63	\$63,868.09
TCL Pesticides/PCBs	Soil	D	302	\$273.26	\$82,524.52
	Water	D	143	\$251.12	\$35,910.16
TAL Metals/Cyanide	Soil	D	302	\$286.12	\$86,408.24
	Water	D	143	\$266.41	\$38,096.63
Nitroaromatics	Soil	D	83	\$240.00	\$19,920.00
	Water	D	43	\$230.00	\$9,890.00
Pesticides/Herbicides 8140/8150	Soil	D	63	\$221.32	\$13,943.16
	Water	D	26	\$218.05	\$5,669.30
PAH 8270	Soil	C	231	\$429.00	\$99,099.00
Lead	Soil	C	231	\$39.71	\$9,173.01
TPH 418.1	Soil	C	231	\$85.24	\$19,690.44
	Water	C	26	\$71.23	\$1,851.98
VOC/NApH 8010/8020	Soil	C	53	\$182.60	\$9,677.80
	Water	C	26	\$166.84	\$4,337.84
Grain Size	Soil	C	66	\$106.60	\$7,035.60
Specific Gravity	Soil	C	66	\$26.25	\$1,732.50
Moisture Content	Soil	C	66	\$12.30	\$811.80
Bulk Density	Soil	C	66	\$26.25	\$1,732.50
Porosity	Soil	C	66	\$12.30	\$811.80
pH	Soil	C	66	\$9.02	\$595.32
Total Organic Carbon	Soil	C	66	\$49.61	\$3,274.26
Cation Exchange Capacity	Soil	C	66	\$45.10	\$2,976.60
Subtotal:					\$767,186.85
Electronic Deliverable:					\$15,343.74
Total Price:					\$782,530.59
Less – Original POA Estimated Cost:					(\$775,571.00)
Total Revised Estimated Price:					\$6,959.59

ABB Environmental Services, Inc.
CTO #090/Modification – BRAC Phase II Activities at NAS Cecil Field

Subcontract Estimate for Data Validation

Description	Matrix	Level	Qty	Unit Price	Total Price
TCL Volatiles	Soil	D	302	\$23.00	\$6,946.00
	Water	D	153	\$23.00	\$3,519.00
TCL Semivolatiles	Soil	D	302	\$28.00	\$8,456.00
	Water	D	143	\$28.00	\$4,004.00
TCL Pesticides/PCBs	Soil	D	302	\$22.00	\$6,644.00
	Water	D	143	\$22.00	\$3,146.00
TAL Metals/Cyanide	Soil	D	302	\$23.00	\$6,946.00
	Water	D	143	\$23.00	\$3,289.00
Nitroaromatics	Soil	D	83	\$20.00	\$1,660.00
	Water	D	43	\$20.00	\$860.00
Pesticides/Herbicides 8140/8150	Soil	D	63	\$43.00	\$2,709.00
	Water	D	26	\$43.00	\$1,118.00
PAH 8270	Soil	C	231	\$18.00	\$4,158.00
Lead	Soil	C	231	\$5.00	\$1,155.00
TPH 418.1	Soil	C	231	\$7.50	\$1,732.50
	Water	C	26	\$75.00	\$1,950.00
VOC/NApH 8010/8020	Soil	C	53	\$21.50	\$1,139.50
	Water	C	26	\$21.50	\$559.00
Grain Size	Soil	C	66	\$3.00	\$198.00
Specific Gravity	Soil	C	66	\$3.00	\$198.00
Moisture Content	Soil	C	66	\$3.00	\$198.00
Bulk Density	Soil	C	66	\$3.00	\$198.00
Porosity	Soil	C	66	\$3.00	\$198.00
pH	Soil	C	66	\$4.00	\$264.00
Total Organic Carbon	Soil	C	66	\$7.50	\$495.00
Cation Exchange Capacity	Soil	C	66	\$5.00	\$330.00
Subtotal:					\$62,070.00
Less – Originally Estimated Price:					(\$50,440.00)
Total Estimated Price for Scope Change:					\$11,630.00

ABB Environmental Services, Inc.
CTO #090/Modification – BRAC Phase II Activities at NAS Cecil Field
Subcontract Estimate for Unexploded Ordinance Survey – AJT & Associates, Inc.

Discipline	Rate	Labor Hour Estimate			Total Dollars					
		Draft	Final	Total						
Principle	\$30.66									
Civil Engineer	\$19.72									
Environmental Specialist/Inspector	\$12.57	170	16	186	\$2,338.02					
Engineer/Scientist	\$19.72	176	16	192	\$3,786.24					
Administrator	\$16.50	176	16	192	\$3,168.00					
CADD Operator	\$12.75	180	40	220	\$2,805.00					
C.I.H.	\$19.00	176	16	192	\$3,648.00					
Manager	\$25.50	176	16	192	\$4,896.00					
Principal	\$30.66	108	32	140	\$4,292.40					
<table border="1" style="width: 100%;"> <tr> <td>Total Direct Labor:</td> <td>\$24,933.66</td> </tr> <tr> <td>Overhead @ 98.54%</td> <td>\$24,569.63</td> </tr> <tr> <td>Subtotal:</td> <td>\$49,503.29</td> </tr> </table>					Total Direct Labor:	\$24,933.66	Overhead @ 98.54%	\$24,569.63	Subtotal:	\$49,503.29
Total Direct Labor:	\$24,933.66									
Overhead @ 98.54%	\$24,569.63									
Subtotal:	\$49,503.29									
ODC/Subcontractor:										
Site Investigation										
\$17,000.00										
Report Preparation										
\$12,000.00										
Mailing										
Telephone										
Travel										
\$14,362.50										
Tolls										
Photographs										
Reproduction										
Aerial Photos										
\$500.00										
Presentation Materials										
Equipment Rental										
\$2,000.00										
<table border="1" style="width: 100%;"> <tr> <td>Total Other Direct Costs:</td> <td>\$45,862.50</td> </tr> <tr> <td>G & A @ 11.28%</td> <td>\$5,173.29</td> </tr> <tr> <td>Subtotal:</td> <td>\$51,035.79</td> </tr> </table>					Total Other Direct Costs:	\$45,862.50	G & A @ 11.28%	\$5,173.29	Subtotal:	\$51,035.79
Total Other Direct Costs:	\$45,862.50									
G & A @ 11.28%	\$5,173.29									
Subtotal:	\$51,035.79									
Total Cost:										
\$100,539.08										
Profit @ 10%										
\$10,053.91										
Total Cost + Profit:										
\$110,592.99										

ABB Environmental Services, Inc.

CTO #090/Modification – BRAC Phase II Support at NAS Cecil Field

Subcontract Estimate for Radiological Sample Locational Survey

Description	U/M	Qty	Unit Price	Total Price
Principal	hour	8	\$76.50	\$612.00
Survey Team	day	4	\$750.00	\$3,000.00
CADD Operator	hour	8	\$31.81	\$254.48
Lodging	day	9	\$50.00	\$450.00
Per Diem	day	12	\$30.00	\$360.00
Automobile Usage	mile	500	\$0.25	\$125.00
Mailing	each	2	\$10.00	\$20.00
Reproduction	each	10	\$50.00	\$500.00
Report Preparation	day	1	\$350.00	\$350.00
Total Price:				\$5,671.48

ABB Environmental Services, Inc.
CTO #090/Modification – BRAC Phase II Activities at NAS Cecil Field
Subcontract Estimate for Radiological Investigation – AJT & Associates, Inc.

Discipline	Rate	Labor Hour Estimate			Total Dollars					
		Draft	Final	Total						
Principle	\$30.66									
Civil Engineer	\$19.72									
Environmental Specialist/Inspector	\$12.57	120		120	\$1,508.40					
Engineer/Scientist	\$19.72	136	16	152	\$2,997.44					
Administrator	\$16.50	68	16	84	\$1,386.00					
CADD Operator	\$12.75	72	16	88	\$1,122.00					
C.I.H.	\$19.00	68	8	76	\$1,444.00					
Manager	\$25.50									
Principal	\$30.66	108	16	124	\$3,801.84					
<table border="1" style="width: 100%;"> <tr> <td>Total Direct Labor:</td> <td>\$12,259.68</td> </tr> <tr> <td>Overhead @ 98.54%</td> <td>\$12,080.69</td> </tr> <tr> <td>Subtotal:</td> <td>\$24,340.37</td> </tr> </table>					Total Direct Labor:	\$12,259.68	Overhead @ 98.54%	\$12,080.69	Subtotal:	\$24,340.37
Total Direct Labor:	\$12,259.68									
Overhead @ 98.54%	\$12,080.69									
Subtotal:	\$24,340.37									
ODC/Subcontractor:										
Site Investigation					\$97,000.00					
Report Preparation					\$10,000.00					
Mailing										
Telephone										
Travel					\$14,362.50					
Tolls										
Photographs										
Reproduction										
Presentation Materials										
Equipment Rental					\$2,000.00					
<table border="1" style="width: 100%;"> <tr> <td>Total Other Direct Costs:</td> <td>\$123,362.50</td> </tr> <tr> <td>G & A @ 11.28%</td> <td>\$13,915.29</td> </tr> <tr> <td>Subtotal:</td> <td>\$137,277.79</td> </tr> </table>					Total Other Direct Costs:	\$123,362.50	G & A @ 11.28%	\$13,915.29	Subtotal:	\$137,277.79
Total Other Direct Costs:	\$123,362.50									
G & A @ 11.28%	\$13,915.29									
Subtotal:	\$137,277.79									
Total Cost:					\$161,618.16					
Profit @ 10%					\$16,161.82					
Total Cost + Profit:					\$177,779.97					

ABB Environmental Services, Inc.
 CTO #090/Modification – BRAC Phase II Activities at NAS Cecil Field
 Subcontract Estimate for Management Plan Development – AJT & Associates, Inc.

Discipline	Rate	Labor Hour Estimate				Total Dollars
		Strategy	Draft	Final	Total	
Principle	\$30.66	32	116	16	164	\$5,028.24
Civil Engineer	\$19.72	112	288	48	448	\$8,834.56
Environmental Specialist/Inspector	\$12.57	384	640	64	1088	\$13,676.16
Engineer/Scientist	\$19.72	80	314	38	432	\$8,519.04
Administrator	\$16.50	128	222	26	376	\$6,204.00
CADD Operator	\$12.75	40	200	32	272	\$3,468.00
C.I.H.	\$19.00	64	116	16	196	\$3,724.00
Manager	\$25.50	96	314	32	442	\$11,271.00
Principal	\$30.66	77	230	48	355	\$10,884.30
Total Direct Labor:						\$71,609.30
Overhead @ 98.54%						\$70,563.80
Subtotal:						\$142,173.10
ODC/Subcontractor:						
Subsurface Investigation						
Synthesis Communications		800	9800	3400	14000	\$14,000.00
Mailing						\$1,520.00
Telephone						\$1,300.00
Travel						
Tolls						
Photographs						\$822.00
Reproduction						\$414.69
Presentation Materials						\$825.00
Equipment Rental						
Total Other Direct Costs:						\$18,881.69
G & A @ 11.28%						\$2,129.85
Subtotal:						\$21,011.54
Total Cost:						\$163,184.65
Profit @ 10%						\$16,318.46
Total Cost + Profit:						\$179,503.11

ABB Environmental Services, Inc.

CTO #090/Modification – BRAC Phase II Activities at NAS Cecil Field

Subcontract Estimate for Community Relations Program

Description	Unit Price	Qty	Total Price
Update Mailing List (one year)	\$1,220.00	1	\$1,220.00
Update Community Relation Plan (5 copies)	\$4,000.00	1	\$4,000.00
Prepare Fact Sheets Initial (250 copies)	\$2,625.00	2	\$5,250.00
Others (250 copies)	\$675.00	10	\$6,750.00
Prepare Newsletters (1000 copies)	\$6,000.00	1	\$6,000.00
Responsiveness Summary (250 copies)	\$675.00	8	\$5,400.00
Prepare BRAC Press Release Kits (250 copies)	\$3,650.00	1	\$3,650.00
Public Relations Strategy	\$20,000.00	1	\$20,000.00
Public Forum/Meetings/Hearings	\$9,645.00	4	\$38,580.00
RAB Support	\$50,000.00	1	\$50,000.00
Public Notices (unit cost for 2 notices)	\$2,975.00	5	\$14,875.00
Total Price:			\$155,725.00

ABB Environmental Services, Inc.
CTO #090/Modification - Phase II BRAC Activities, NAS Cecil Field

Table I.1 - Estimated Labor Hours by Task/Subtask and Activity

Task: 1 - Project Management		Estimated Labor Hours								Total LOE
Sub-Task	Subtask Description	Inst. Mgr TM 4	Assoc. TM TM 1	UST IM TM 4	Pr. Eng. SE 4	Geo. GE 2	CADD CD	Proj. Asst. PA 2	Clerk CL	LOE
1.1	Daily Management	224	1440					1200		2864
	Project Meetings	300	1140	144	36			480		2100
1.2	Cost Management Plan					120	8		32	160
Total LOE:		524	2580	144	36	120	8	1680	32	5124

Task: 2 - EBS of Non-Contiguous Properties		Estimated Labor Hours								Total LOE	
Sub-Task	Subtask Description	Tech Expt EX 1/F	Pr. Eng. SE 4	Sr. Sci. SS 3	Geo. GE 2	Eng. EN 2	Sci. XU 2	CADD CD	Tech. Edit. TE	Clerk CL	LOE
2.1	Review historical data			40			50				90
2.2	Fence-to-fence baseline survey			80	90	72	82				324
2.3	Prepare Draft EBS report	16		200	200			56	12	8	492
2.4	Prepare Final EBS report	2		80				8	2	4	96
2.5	Project Meetings			12							12
Total LOE:		18		412	290	72	132	64	14	12	1014

ABB Environmental Services, Inc.
CTO #090/Modification - Phase II BRAC Activities, NAS Cecil Field

Table I.1 - Estimated Labor Hours by Task/Subtask and Activity

Task: 3 - BRAC Clean-up Plan		Estimated Labor Hours										Total LOE
Sub-Task	Subtask Description	Tech Expt EX 1/F	Pr. Eng. SE 4	Sr. Sci. SS 3	Sci. XU 2	Sci. XU/F 2	Eng. EN 2/F	Comp. Prog. CP	CADD CD	Tech. Edit. TE	Clerk CL	
3.1	BCP Revision #1	16	24	44		84	120		170	12	48	518
3.2	Monthly Updates (Nov 94-Feb 95)						160					160
3.3	BCP Revision #2	8	12	32		56	80		114	12	32	346
3.4	Monthly Updates (Apr - Aug 95)						200					200
3.5	BCP Database Updates							1000				1000
3.6	RACER Training				28							28
3.7	Project Meetings						96					96
Total LOE:		24	36	76		140	656	1000	284	24	80	2348

Task: 4 - Community Relations Support		Estimated Labor Hours			Total LOE
Sub-Task	Subtask Description	CR Spec. CR/F	Proj. Asst. PA 2/F		
4.1	Community Relations Support	120			120
4.2	Public Meetings	300	30		330
Total LOE:		420	30		450

8500.40

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Table II.1 - Estimated Labor Hours by Task/Subtask and Activity

Task: 5 - IR Planning Documents		Estimated Labor Hours										
Sub-Task	Subtask Description	QA Mgr QM/F	Tech Expt EX 1/F	Pr Tox ST 4	Pr Sci SS 4	Sr Hydro SH 3	Sr Eco. SL 3	H&S Mgr HM	Geol. GE 2	Sci. XU 2	Tech. ZG 2	Tech Edit. TE
5.2	IR Site Investigation WPs <i>8520.28 CTO 90</i> Site Visit Record Search/Review Draft Workplan Review Meeting Prepare Final WP			24	24		24		24			
		16	48	40	120	24	40	32	320			16
		8	16	40	60	8	40	8	160			8
Subtotal 5.2:		24	88	104	252	32	104	40	528			24
5.3	Site Management Plan Update Site Management Plan <i>Task 2</i>		18		14							
Subtotal 5.3:			18		14							
5.4	Groundwater Monitoring Plan Assemble Information <i>Task 10</i> Prepare & Deliver Report <i>8520.12</i> Report Maintenance Update IR Well Location Map Update Well Abandonment Report		8		24					80		
			12		12					32	16	8
			8		16					64		4
					8							
			4		16					32		4
Subtotal 5.4:			32		76					208	16	16

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ABB Environmental Services, Inc.
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Table II.1 - Estimated Labor Hours by Task/Subtask and Activity

Task: 6 - IR Field Investigation		Estimated Labor Hours										Total LOE
Sub-Task	Subtask Description	Tech Expt EX 1/F	Pr Eco SL 4/F	Sr. Eco SL 3/F	Sr Sci SS 3	Sr. Sci (offsite) SS 3/F	Sr. Chem SC 3	Geol. GE 2	Toxic. (offsite) TX 2/F	Sci. (offsite) XU 2/F	Tech ZG 2	
6.1.1	Toxicity Testing Task 19 - 8500.19/39											
	Toxicity Testing - OU 8		75	120								195
	Toxicity Testing - Other IR Sites		132	152						80		364
6.1.2	Habitat Mapping											
	Field Survey		137/39	137								274
	Functional Assessment		80	40						16		136
	Wetlands Delineation		64	64								128
Subtotal 6.1:			488	513						96		(1097)
0.226.2	OUs 3 thru 6 - Scope Change 8520.22/32				1116	555	1262	1514	150		1090	5687
6.3	UXO/RAD Survey Subs to 8520.45											
Total LOE:			488	513	1116	555	1262	1514	150	96	1090	6784

Handwritten calculations and notes:

- 8500.19
- 8520.22
- 8520.32
- 488
- 513
- 96
- 1097
- 33510.22
- 29,641.14
- 4242.24
- 67,311.4
- 4982
- 705
- Q LOE
- 69,509 SUBC



ABB Environmental Services, Inc.
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Table II.1 - Estimated Labor Hours by Task/Subtask and Activity

Task: 9 - IR Data Evaluation and Reports		Estimated Labor Hours										Total LOE
Sub-Task	Subtask Description	Tech Expt EX 1/F	Pr. Eng. SE 4	Pr. Eco. SL 4/F	Sr. Eco. SL 3/F	Sr. Eng. SE 3/F	Sci. XU 2/F	CADD CD	Tech. Edit. TE	Proj. Asst. PA 2/F	Clerk CL	
9.1	Ecological Investigation											
	Draft Report	8		120	100		80	40	16	16	24	404
	Draft Final Report	.39 16		24	8		8	8			24	88
	Final Report	4		24	8		8	8			16	68
	Basewide Assessment			80	36			8			24	148
	Eco. Report Rvw Meeting			22								22
Subtotal Task 9.1:		28		270	152		96	64	16	16	88	730
9.2	Review UXO/RAD Reports		16			16						32
Total LOE:		28	16	270	152	16	96	64	16	16	88	762

9.2

8520.45 / 55

76 to 45

16 to .55

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Table III.1 - Estimated Labor Hours by Task/Subtask and Activity

Task: 10 - Tank Management		Estimated Labor Hours								Total LOE
Sub- Task	Subtask Description	UST IM TM 4	Tech Expt EX 1	Pr. Sci. SS 4	Geo. GE 2	CADD CD	Tech Edit. TE	Proj. Asst. PA 2	Clerk CL	
10.1	Tank Management Plan									
	Develop TMP Strategy	24	24	8	8		8	16		88
	Prepare Draft TM Plan	80	80	80	40	80	16	16	24	416
	Prepare Final TM Plan	8	8	8	4	20	8	8	12	76
10.2	Update TIMS Database	10	60							70

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Table IV.1 - Estimated Labor Hours by Task/Subtask and Activity

Task: 11 - Water/Wastewater Management Plans					
Sub-Task	Subtask Description	Estimated Labor Hours			Total LOE
		Tech. Expt. EX 1/F	Pr. Eng. SE 4	Sr. Sci. SS 3	
11.1	Water/Wastewater Plan Review	4	16	8	28
Total LOE:		4	16	8	28

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