51-18

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT
NON-TIME CRITICAL REMOVAL ACTION
AT THE
RADIOLOGICAL SITES (SEAD-12),
SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK
04 OCTOBER 2008
Revised 31 October 2008

1.0 GENERAL STATEMENT OF SERVICES

1.1 General. A Remedial Investigation was preformed at this site and the physical presence of military unique debris from the classified mission has been documented. The depot has officially been closed by the DOD and the US Army and in accordance with the Base Realignment and Closure (BRAC) process, portions of the depot are now being released to the public and private sectors for reuse.

The goal of the proposed action at SEAD-12 is (1) to eliminate and contain an identified source of residual materials in the soil. The removal of miscellaneous components and other containers is the focus of the planned removal action for this site.

1.2 Location. SEDA is a US Army facility located in Seneca County, New York. SEDA occupies approximately 10,600 acres. It is bounded on the west by State Route 96A and on the east by State Route 96. The cities of Geneva and Rochester are located to the northwest (14 and 50 miles, respectively); Syracuse is 50 miles to the northeast and Ithaca is 31 miles to the south. The surrounding area is generally used for farming.

1.3 Regulatory Status. SEDA was included on the Federal Facilities National Priorities List on 13 July 1989. Consequently, all work to be performed under this contract shall be performed according to CERCLA guidance and the Federal Facilities Agreement in effect for Seneca Army Depot (Reference 11.1).

1.4 Statutory Authority. Authority for responding to releases or threats of releases from a hazardous waste site is addressed in section 104 of CERCLA, as amended. The Army has been delegated the response authority for Army sites, whether or not the sites are on the National Priorities List of the U.S. Environmental Protection Agency (EPA). Under CERCLA Section 104(b), the Army is authorized to investigate, survey, test, or gather other data required to identify the existence, extent, and nature of contaminants, including the extent of danger to human health or welfare and the environment. In addition, the Army is authorized to undertake planning, engineering, and other studies or investigations appropriate to directing response actions that prevent, limit, or mitigate the risk to human health or welfare and the environment.

1.5 Basis of this Removal. The Remedial Investigation of this site is the basis for the action to remove Army unique components.

2.0 OBJECTIVE

The objective of this Performance Work Statement (PWS) is to perform Removal Action at the Radiological Sites (SEAD-12) at Seneca ADA as defined in this PWS and as laid out in the design documents. In general, the purpose of this action is to remove the Army materials that came from military activity on the site. Because the impetus for the removal action is the presence of miscellaneous component debris, and due to the uncertain nature of the contents, excavation and disposal, rather than any sort of in-situ treatment of these items, is logical.

3.0 DETAILED DESCRIPTION OF SERVICES

3.1 General Requirements.

3.1.1 All work performed by the Contractor shall be designed and implemented in a manner which complements earlier investigations and shall conform to this PWS, the approved design and the requirements of EPA, NYSDEC and SEDA.

3.1.2 The Contractor shall prepare a Work Plan to complete the require removal and a cost proposal to implement as planned. The assumption shall be that there will be very little or no waste generated that will require off-site disposal.

3.1.3 All volumes referenced in this PWS are in-place volumes. Payment will be made based upon actual in-place volumes and not excavated, expanded volumes. The Contractor shall be responsible for performing survey work necessary to determine that required excavation depths and extents have been attained.

3.2 Removal Action.

3.2.1 (Task 1) Preparation of Work Plans (Cost Plus Fixed Fee). Using the project layout/progression given in Appendix 1 of this PWS, the Contractor shall prepare a complete Work Plan for the removal actions to be carried out. This WP shall form the design of the removal to be conducted. The Contractor shall layout all aspects of the work to be done. At a minimum, the plan shall include, but not be limited to the following:

- Construction Quality Control (QC) and Government Quality Assurance (QA): to be conducted IAW NYD Specification 01440 and ER 1180-1-6. Copies can be provided electronically if requested
- Sampling and Analysis Plan: to include Data Quality Objectives
- Site Safety Plan IAW ER 385-1

3.2.2 (Task 2) Non-Time Critical Removal Action (NTCRA) at the Radiological Site (SEAD-12).

3.2.2.1 (Task 2.1) Excavation (Cost Plus Fixed Fee).

3.2.2.1.1 General. The Contractor shall document its assumptions for performing the required work and provide a breakdown of the personnel required, the estimated hours of effort, estimated equipment costs and an overall estimate of total costs to complete the work that is required by the PWS. In addition, the Contractor will provide definitions of additional work, associated labor requirements, and associated costs that may be required in the event that situations are encountered in the field that are not currently anticipated and provide unit costs for services that may be needed to support the requested NTCRA. . At the minimum, the Contractor shall provide the personnel, equipment and resources to properly perform site layout, excavation and staging of 14,000 cyds of soils and geophysical anomalies per this PWS and the design documents. It is estimated that approximately 2,000 cyds of debris will be found on site. Additionally, the Contractor shall segregate and stage excavated materials according to the following:

- non-radiologically contaminated soils/sediments
- non- radiologically contaminated debris
- radiologically-contaminated soils/sediments
- radiologically-contaminated debris

The contractor shall be responsible for staging/properly containing excavated materials and testing the materials prior to disposal. Excavation shall be accomplished so that intact containers or items are removed without damage. The contractor shall be responsible for managing and recording the quantities of waste generated under each category. All associated activities shall be performed according to this PWS and the design documents.

3.2.2.1.2 Debris Evaluation. debris shall be evaluated as follows:

- debris will be scanned for rad on the outside, visible soil removed and the debris placed in an on-site, separated area.
- debris will be verified in the presence of Army personnel. Scheduled openings will be coordinated with the Contracting Officer (KO) or the Contracting Officer Representative (COR). A week delay of opening debris from the time of excavation shall be planned for.
- Upon opening, debris will be scanned for RAD. If clear, contents will be reviewed by the Army for determination of disposition.
- If radiation is found, debris contents will be reviewed by Army personnel, separated from others and labeled.
- If the determination is that contents have potential concern, they shall be transported to Igloo A0101 by the Contractor and secured by the Army.
- After army review of debris, the contractor shall perform necessary testing to determine hazardous constituents and shall dispose of the drum accordingly. This effort is identified in the pricing schedule as debris disposal.
- debris and material not retained by the army, and not hazardous after testing, shall be considered for recycling
- debris that are placed in the secure structure will not be the responsibility of the contractor for disposal.

3.2.2.2 The Contractor shall replace sols back in the excavation following completion of the required KO or COR approval. The Contractor shall assume that 3 days will be required to receive approval and shall plan accordingly.

3.2.2.3 (Task 2.2) Disposal of Excavated Materials (Cost Plus Fixed Fee). The Contractor shall provide a breakdown of the personnel required, the estimated hours of effort, estimated equipment costs and a n overall estimate of total costs to complete the work that is required by the PWS. In addition, the Contractor will provide definitions of additional work, associated labor requirements, and associated costs that may be required in the event that situations are encountered in the field that are not currently anticipated and provide unit costs for services that may be needed to support the requested NTCRA. The Contractor shall provide the personnel, equipment and resources to properly dispose of all excavated materials, not considered suitable for backfill, as dictated by the test results received. Disposal shall be assumed as follows:

- non-hazardous soils/sediments
- non-hazardous debris

- hazardous soils/sediments (HTW standpoint)
- hazardous debris (HTW standpoint)
- mixed waste soils/sediments
- mixed waste debris
- radiologically-contaminated soils/sediments
- radiologically-contaminated debris

3.2.2.4 **(Task 2.3) Restoration of the Site (Cost Plus Fixed Fee)**. The Contractor shall provide a breakdown of the personnel required, the estimated hours of effort, estimated equipment costs and a n overall estimate of total costs to complete the work that is required by the PWS. In addition, the Contractor will provide definitions of additional work, associated labor requirements, and associated costs that may be required in the event that situations are encountered in the field that are not currently anticipated and provide unit costs for services that may be needed to support the requested NTCRA.The Contractor shall provide the personnel, equipment and resources to properly restore the site. Fill materials that are demonstrated to comply with cleanup levels shall be used to backfill and restore the site.

3.2.3 **(Task 3) Weekly Reports (Cost Plus Fixed Fee)**. During field work, the Contractor shall submit Weekly Reports according to the distribution in paragraph 4.7.2 and in the quantities shown in 4.7.3, "Letter Reports". These reports shall address the following:

- A summary of work completed in the field. Upon request, copies of trip reports and/or field logs shall be provided.
- Anticipated or actual delay of a scheduled field activity, to include basis and any effect on subsequent events or scheduled activities.
- Minutes of all formal Project Manager or other formal meetings held during the preceding period, at which the Contractor is in attendance.
- Status report on all milestones met on schedule during the period, report and explanation for any milestones not met during the preceding period and an assessment of milestones scheduled for the next reporting period.
- Outside inspection reports, audits, or other administrative information developed during the preceding period, including notice of any outside inspections or audits scheduled during the next reporting period.
- Permit status as applicable.
- Personnel staffing status or update.
- Community relations activity update.
- Sampling data

3.3 **(Task 4) Removal Completion Report (Cost Plus Fixed Fee)**. At the conclusion of field work, the Contractor shall submit a Removal Completion Report to the distribution in Section 4.7.2 in the quantities shown in paragraph 4.7.3. This report shall not only present a recapitulation of the work that was done but shall also include discussions of the following:

- Confirmation sample results and how those results demonstrate success in the removal area
- Conclusions regarding overall success at each site.

3.4 **(Task 5) Project Management (Cost Plus Fixed Fee)**. The Contractor shall manage the Order in accordance with the basic contract Work Statement. The Contractor shall perform all project management associated with this TO as a part of this task including, but not limited to, preparing and submitting a master network schedule, cost and manpower plan, monthly progress reports, monthly individual performance report and cost/schedule variance report, work task proposals and a program plan.

3.5 **(Optional Task 1) RCRA Closure of Building 803 (Firm Fixed Price)**. The Contractor shall provide the labor and equipment necessary to Close Building 803 as laid out in the approved plan.

4.0 SUBMITTALS AND PRESENTATIONS

4.1 **Format and Content.** Documents shall present all data, analyses, and recommendations. All drawings shall be of engineering quality in drafted form with sufficient details to show interrelations of major features on the installation site map. When drawings are required, data may be combined to reduce the number of drawings. The report shall consist of 8-½" x 11" pages with drawings folded, if necessary, to this size. A decimal paragraphing system shall be used, with each section and paragraph of the reports having a unique decimal designation. The report covers shall consist of vinyl 3-ring binders and shall hold pages firmly while allowing easy removal, addition, or replacement of pages. A report title page shall identify the Contractor, the Corps of Engineers, New York District, and the date. The Contractor identification shall not dominate the title page. Each page of draft and final reports shall be stamped "DRAFT" and " FINAL", respectively. Each report shall identify the members and title of the Contractor's staff which had significant, specific input into the report's preparation or review. Submittals shall include incorporation of all previous review comments accepted by the Contractor as well as a section describing the disposition of each comment.

4.2 Presentations. The Contractor shall make presentations of work performed according to the schedule in paragraph 4.6. Each presentation shall consist of a summary of the work accomplished and anticipated followed by an open discussion among those present. The Contractor shall provide a minimum of two persons at the meetings which are expected to last one day each.

4.3 Conference Minutes. The Contractor shall be responsible for taking notes and preparing the minutes of all conferences, presentations, and review meetings. Conference notes shall be prepared in typed form and the original furnished to the Contracting Officer (within five (5) working days after date of conference) for concurrence and inclusion in the next monthly report. This report shall include the following items as a minimum:

a. The date and place the conference was held with a list of attendees. The roster of attendees shall include name, organization, and telephone number;

b. Written comments presented by attendees shall be attached to each report with the conference action noted. Conference action as determined by the Government's Project Manager shall be "A" for an approved comment, "D" for a disapproved comment, "W" for a comment that has been withdrawn, and "E" for a comment that has an exception noted;

c. Comments made during the conference and decisions affecting criteria changes must be recorded in the basic conference notes. Any augmentation of written comments should be documented by the conference notes.

4.4 Confirmation Notices. The Contractor shall be required to provide a record of all discussions, verbal directions, telephone conversations, etc., participated in by the Contractor and/or representatives on matters relative to this contract and the work. These records, entitled "Confirmation Notices", shall be numbered sequentially and shall fully identify participating personnel, subject discussed, and any conclusions reached. The Contractor shall forward to the Contracting Officer, within 5 working days, a reproducible copy of said confirmation notices. Distribution of said confirmation notices shall be made by the Government.

4.5 Progress Reports and Charts. The Contractor shall submit progress reports to the Contracting Officer with each request for payment. The progress reports shall indicate work performed and problems incurred during the payment period. Upon award, the Contractor shall, within 15 days, prepare a progress chart to show the proposed schedule for completion of the project. The progress chart shall be prepared in reproducible form and submitted to the Contracting Officer for approval. The actual progress shall be updated and submitted by the 15th of each month and may be included with the request for payment.

4.6 Proposed Schedule. The proposed schedule for the removal and the post removal work is given below. All work and services shall be completed by 28 February 2010.

Milestone	Date
Notice to Proceed	NTP
Draft Work Plan	NTP + 15 days
Comments to Contractor	NTP + 20 days
Final Work Plan	NTP + 25 days
Initiation of Field Work	NTP + 30 days
Completion of Field Work	NTP + 60 days
Draft Removal Report	NTP + 75 days
Comments to Contractor	NTP + 85 days
Final Removal Report	NTP + 105 days
Meetings/Presentations	TBD

4.7 Submittals.

4.7.1 General Submittal Requirements.

4.7.1.1 Distribution. The Contractor is responsible for reproduction and distribution of all documents. The Contractor shall furnish copies of submittals to each addressee listed in paragraph 4.7.2 in the quantities listed in the document submittal list. Submittals are due at each of the addresses not later than the close of business on the dates shown in paragraph 4.6.

4.7.1.2 Partial Submittals. Partial submittals will not be accepted unless prior approval is given.

4.7.1.3 Cover Letters. A cover letter shall accompany each document and indicate the project, project phase, the date comments are due, to whom comments are submitted, the date and location of the review conference, etc., as appropriate. (Note that, depending on the recipient, not all letters shall contain the same information). The contents of the cover letters should be coordinated with CENAN-PM prior to the submittal date. The cover letter shall not be bound into the document.

4.7.1.4 Supporting Data and Calculations. The tabulation of criteria, data, circulations, etc., which are performed but not included in detail in the report shall be assembled as appendices. Criteria information provided need not be reiterated, although it should be referenced as appropriate. Persons performing and checking calculations are required to place their full names on the

first sheet of all supporting calculations, etc., and initial the following sheets. These may not be the same individual. Each sheet should be dated.

4.7.1.5 Reproducibles. One camera-ready, unbound copy of each submittal shall be provided to the Contracting Officer in addition to the submittals required in the document and submittal list.

4.7.2 Addresses.

a) Contracting Officer (KO)
US Anny Engineering and Support Center, Huntsville
ATTN: CEHNC-CT-S (MS. Sharon Butler)
4820 University Square,
Huntsville, Alabama, 35816

b) Huntsville Center Project Manager (PM)
US Army Engineering and Support Center, Huntsville
ATTN: CEHNC-ED-CS-P (Mr. Steve Nohrstedt)
4820 University Square,
Huntsville, Alabama. 35816

c) Seneca ADA Installation Manager
Commander's Representative
Seneca ADA
ATTN: SMASE-CO (Bld. 123, Mr. Absolom)
5786 State Route 96, P.O. Box 9
Romulus, New York 14541-5001

d) Environmental Health Risk Assessor
Commander
USACHPPM (PROV)
ATTN: MCHB-ME-R (Mr. Hoddinott)
Building E1677
Aberdeen Proving Ground, MD 21010-5422

e) New York District (CENAN) Project Manager
Commander
US Army Engineer District, New York
Seneca Office for Project Management
ATTN: Mr. Randy Battaglia, Bld. 125
P.O. Box 9
5786 State Route 96
Romulus, New York 1454 1-5001

f) New York District (CENAN) Construction Manager
Commander
US Army Engineer District, New York
Seneca Office for Project Management
ATTN: Mr. Thomas Battaglia, Bld.125
P.O. Box 9
5786 State Route 96
Romulus, New York 1454 1-5001

g) USAEC Representative to Seneca
Commander
U.S. Army Environmental Center,
ATTN: Mr. Roger Walton
Aberdeen Proving Ground, MD 21010-5422

4.7.3 Document and Submittal List

	DRAFT	FINAL
CEHNC-ED-CS-P	2	2
SMASE-CO	3	3
MCHB-ME-R	2	2
CENAN-PM	1	1
CENAN-Construction	1	1
AEC	1	1
TOTAL	10	10

5.0 SAFETY REQUIREMENTS

5.1 Site activities in conjunction with this project may pose unique safety hazards which require specialized expertise to effectively address and eliminate.

5.2 Prior to commencement of field activities, the Contractor shall submit for review an amendment to the Work Plan SHERP which is to contain the following:

5.2.1 A discussion of the Contractor's organization structure, to include lines of authority of the Contractor and all subcontractors, shall be provided along with an organization chart showing the lines of authority for safety and health from site level to corporate management. Each person assigned specific safety and health responsibilities shall be identified and pertinent qualifications and experience shall be described.

5.2.2 Documentation of compliance with training and medical surveillance requirements for affected employees shall be provided. A format for such documentation is provided in the Work Plan SHERP.

6.0 QUALITY ASSURANCE PROJECT PLAN REQUIREMENTS

The Contractor shall perform all sampling and analysis activities according to the requirements presented in the Work Plan.

7.0 (BLANK)

8.0 (BLANK)

9.0 MANAGEMENT OF FUNDS

No transfer of funds by the Contractor between tasks will be allowed without the prior approval of the Contracting Officer or the Contracting Officer's Representative.

10.0 PUBLIC AFFAIRS

The Contractor shall not publicly disclose any data generated or reviewed under this contract. The Contractor shall refer all requests for site information to the SEDA Public Affairs Office and requests for contract information shall be forwarded to the Contracting Officer, US Army Engineering and Support Center, Huntsville. Reports and data generated under this contract shall become the property of the Department of Defense and distribution to any other source by the Contractor unless authorized by the Contracting Officer, is prohibited. The Contractor shall notify the Contracting Officer and Installation Public Affairs Office prior to any contacts with regulatory agencies.

11.0 REFERENCES

11.1 "Federal Facility Agreement under CERCLA Section 120 in the matter of Seneca Army Depot, Romulus, New York", Docket No. 11-CERCLA-FFA-00202, USEPA, U.S. Department of the Army, and the New York State Department of Environmental Conservation, November 1990.

APPENDIX 1

DETAILED DESCRIPTION OF REQUIREMENTS

A.1.0 DETAILED DESCRIPTION OF REQUIREMENTS

A.1.1 MOBILIZATION

A.1.1.1 Off Site Or On Site Borrow Pit. Prior to starting the removal actions, the RA Contractor shall locate an off-site borrow pit that will be used to provide clean backfill. The RA Contractor shall be responsible for evaluating and certifying alternative borrow pit sites to ensure that the borrow material used for site backfill operations is clean. The borrow soil must be sampled and analyzed, and the results of the analyses must be provided to the Army prior to its use at the site. There must be enough borrow material available to meet the project requirements. The RA Contractor shall estimate the amount of borrow available prior to the initiation of the work. The RA Contractor shall submit a report that presents the data collected from the potential borrow pit(s) evaluated. This report shall include a site plan of the alternative sites along with an estimate of the quantity of borrow material available. The report shall present chemical and physical laboratory analysis results.

A.1.1.2 Utilities. The RA Contractor shall be responsible for the mobilization of necessary temporary site facilities for the performance of this removal action. RA Contractor shall be required to obtain and pay for temporary utilities from the appropriate utility providers.

A.1.1.3 Site Clearance. The RA Contractor shall locate, identify, mark, and protect site structures and utilities from damage. The RA Contractor shall protect survey benchmarks from damage or displacement. The RA Contractor shall remove surface debris and clear areas required for site access and excavation.

A.1.1.4 Site Security. The RA Contractor shall be responsible for limiting and controlling personnel and wildlife entry into the exclusion zone, excavation, and any other potentially hazardous locations. The RA Contractor shall construct a security fence around the work areas.

A.1.1.5 Decontamination Facility (If Required). This section describes the basic requirements for decontamination activities that must be completed during, and the facilities that must be developed for, each removal action site.

A.1.1.5.1 The RA Contractor shall supply all labor, materials, and equipment needed to design, construct, and equip decontamination facilities in accordance with these specifications.

A.1.1.5.2 The RA Contractor shall decontaminate all excavation and transport equipment prior to its:

- use at a new site,
- removal from SEDA,
- use for handling of clean borrow materials intended for backfilling.

A.1.1.5.3 The RA Contractor shall design and operate decontamination facilities in a manner that ensures that all of the debris resulting from, and the materials used during, the decontamination process are captured and recovered prior to their release to the surrounding environment.

A.1.1.5.4 Fluids and solids generated during decontamination activities will be segregated, and recovered. Fluids and solids may be separated by allowing the mixed wastes to flow into a lined sump where they are allowed to settle. The top layer of liquids will be decanted from the sump and placed into appropriate containers for transport to storage, treatment, and disposal facilities. Recovered solids will be added to the excavated soils stockpiled for disposal, or placed in other suitable transport containers for subsequent transport and disposal at off-site facilities.

A.1.1.5.5 All personnel protective equipment used during site operations will be segregated from other removal action debris and collected as a separate stream for off-site disposal at approved facilities.

A.1.2 SITE OPERATIONS

A.1.2.1 Staging Areas. The RA Contractor shall construct, operate and maintain separate staging areas for the temporary storage and stockpiling of clean and contaminated soil. Additional requirements for the staging areas are provided below:

A.1.2.1.1 The locations of the staging areas established for clean and contaminated soil shall be clearly marked and identified on the site plan. Each staging area shall have sufficient capacity for up to 6 days volume of soil.

A.1.2.1.2 The RA Contractor shall underline all staging areas with 40-mil HDPE (or equivalent) liner.

A.1.2.1.3 The RA Contractor shall use berms or equivalent means to prevent surface water run-on and run-off from the designated staging areas.

A.1.2.1.4 The RA Contractor shall cover all soil stockpiles with a tarp that is weighted appropriately to prevent erosion of the pile by wind, rain, snow, or storm water. All soil stockpiles shall be covered to the fullest extent possible. Storage piles shall be covered at all times when they are not being actively worked.

A.1.2.1.5 The RA Contractor shall minimize vehicular traffic on staging area liners to prevent damage to the liner. The RA Contractor shall use only rubber-tired loaders in the staging area to minimize damage to the liner.

A.1.2.1.6 The RA Contractor shall inspect storage pile liners and covering tarps at least once per work day. If the integrity of the liner or the covering tarp is breached, the breach shall be immediately repaired or the contents of the stockpile shall be moved to another location that is constructed per the specifications defined above.

A.1.2.1.7 If a stockpile is relocated due to a failure of the liner or covering tarp, the new location will be marked on the site plan and reported to the Army.

A.1.2.2 Preparation For Excavation. The RA Contractor shall survey and mark each site to delineate the proposed extent of the excavation. Tasks that require surveying are layout of the soil excavations, sampling locations, and preparation of the project record drawings. All surveying shall be done under the supervision of a New York licensed and registered surveyor. The RA Contractor shall identify the required excavation lines, levels, contours, and datum used to delineate the extent of the proposed excavation. The RA Contractor shall identify and protect existing structures, utilities and existing benchmarks from damage during the site operations.

A.1.2.3 Excavation. The RA Contractor shall be responsible for excavation of debris areas. Specifications pertinent to the excavation of contaminated soil are provided below.

A.1.2.3.1 The extent of the proposed excavations may be modified as are required to comply with other parts of this subsection, which are provided subsequently.

A.1.2.3.2 SEAD-12. The Contractor shall excavate 14,000 cy of soils at this site as laid out in Figure 1 of Appendix 2. The site will be regraded. It is assumed that NYCRR Part 360 will no longer apply because the fill area is being removed. The remaining areas will be covered with crushed stone (if required). The excavation will be dewatered and the water placed in holding tanks. Any groundwater collected will be treated and disposed in accordance with all state and federal regulations. During the excavation process, the sides of the excavation may be sloped to the levels required by OSHA. Shoring or bracing may also be used. Four additional monitoring wells will be installed at the site as directed by field personnel after confirmation sampling has been completed and results analyzed.

A.1.2.3.3 The RA Contractor shall excavate and manage all soil from the removal action site. The minimum extent of the required excavation is defined in the decision documents. The excavation limits shown shall be considered as initial.

A.1.2.3.4 The RA Contractor shall collect samples of the excavated soil and submit them for analysis to develop source characterization data needed by the disposal facility.

A.1.2.3.5 Backfill of the excavation shall not begin until the confirmational sample laboratory results are reviewed and the final limits of excavation are defined. If the laboratory results indicate that additional soils must be excavated, the RA Contractor shall notify the KO.

A.1.2.3.6 Excavations shall be made and maintained in accordance with the Grading and Excavation Plan submitted by the RA Contractor and approved by the Army. The RA Contractor shall grade the upper perimeter edge of the excavation to prevent surface water inflow into the open excavation.

A.1.2.3.7 The RA Contractor shall use appropriate dust suppression and vapor control measures to minimize emissions from the excavation. The RA Contractor shall conduct air monitoring in accordance with the NYSDOH "Community Air Monitoring Plan". Should the air monitoring action levels be exceeded, work shall be stopped until appropriate air emission control measures can be instituted.

A.1.2.3.8 The RA Contractor shall notify the Army of any unexpected subsurface conditions and discontinue work in the affected area until notified to resume work. Work is to continue in unaffected portions of the site.

A.1.2.3.9 Excavation shall not be conducted during periods of inclement weather (i.e., rain or snow events).

A.1.2.3.10 The RA Contractor shall stockpile all excavated soils in accordance with these specifications pending off-site transport and disposal.

A.1.2.3.11 The RA Contractor shall record the volume of material excavated and report this volume to the Army as part of the weekly reports required in these specifications.

A.1.2.3.12 The RA Contractor shall prepare a drawing that documents the extent of the excavations.

A.1.2.4 Backfilling. The RA Contractor shall provide all labor, material and equipment needed to backfill the complete excavation. Additional details pertinent to the completion of the backfill operations are provided below.

A.1.2.4.1 Backfilling of Excavated Soils. Following receipt of any required confirmation sampling results, the Contractor shall perform a QC review of the data to determine its acceptability for the purposes required. The Contractor shall summarize all raw data, including comparisons to project criteria, and provide the data, data summary and Contractor backfill recommendation to the Government for a QA review. The Contractor shall be responsible for recommending whether soils meet all backfill requirements according to this contract. Upon receipt of data and recommendations from the Contractor, the Government shall have fourteen days to review the data and recommendations and to approve to backfill.

A.1.2.4.2 Backfilling Using Off-Site Source Soils.

A.1.2.4.2.1 The RA Contractor shall backfill excavation with certified, clean backfill as required to make up for volume losses during the excavation. The backfill shall come from an off-site facility. The RA Contractor shall provide documentation that certifies that the material used as backfill is clean and free of undesirable substances including debris, rubble, wood, chemicals, etc. The documentation shall include laboratory testing results of soil samples collected from the borrow pit and a description of the location of the borrow pit.

A.1.2.4.2.2 Testing results of the soil samples from each borrow pit must be submitted and approval granted prior to the use of any material as backfill. At least one sample shall be collected from each borrow pit and analyzed for the following parameters:

- TAL Metals
- TCL Organic compounds (volatile and semi-volatile organic compounds)

- PCB/Pesticides
- Radiological contaminants

Analytical results shall be compared to the TAGM-derived cleanup levels to determine whether the backfill is clean, and suitable for use, as backfill.

A.1.2.4.2.3 The RA Contractor shall visually inspect each load of backfill to assure that the material is similar to the material that was sampled in the borrow pit and tested.

A.1.2.4.2.4 Satisfactory borrow materials for use as backfill shall be selected from materials designated as GW-Gravel, well graded; GM -Gravels, mixed, non plastic, fines; GC -Gravels, clayey-plastic, fines; SW -Sands, well graded; SM -Sands, mixed-plastic, fines; or SC -Sands, clayey-plastic, fines in ASTM D 2487 "Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System)". The selected backfill shall be free of roots and other organic matter, trash, debris, frozen materials, and stones larger than 3 inches in any dimension. Any material classified as SM shall not have more than 25 percent by weight passing the No. 200 sieve.

A.1.2.4.2.5 The RA Contractor shall not backfill an excavation if standing water is present in the excavation. The water either shall be allowed to naturally infiltrate through the base of the excavation or shall be pumped from the excavation and treated prior to disposal.

A.1.2.4.2.6 All material backfilled into the excavation shall be compacted enough to support the construction traffic. The final grading plan shall allow for proper drainage after any estimated subsidence of the backfilled material has taken place.

A.1.2.5 Disposal.

A.1.2.5.1 Disposal Of Contaminated Soil. The RA Contractor shall provide all labor, material, and equipment necessary to dispose of the contaminated soil. All disposal operations shall be completed in accordance with prevailing environmental statutes, laws, and regulations. This section describes the disposal requirements for all soils residue, and decontamination residuals generated as part of this removal action.

A.1.2.5.1.1 SEDA and the Army shall be identified as the Generator of all project-derived wastes (i.e., excavated soil, wastewater, PPE and miscellaneous debris -e.g., tarps and plastic sheeting). The RA Contractor shall be identified as the Generator of any waste resulting due to the release of a hazardous material from his equipment or resulting from improper use of chemical materials at the site.

A.1.2.5.1.2 The RA Contractor shall comply with all applicable federal, state, and local regulations. At a minimum, the RA Contractor shall identify and comply with all hazardous and solid waste, and transportation requirements.

A.1.2.5.1.3 The RA Contractor shall be responsible for determining whether the waste residuals generated from the excavation processes are hazardous wastes. Wastes include any excavated soil, waste oils or lubricants, hydraulic fluids, coolants, plastic sheeting, used personnel protection equipment and other miscellaneous debris.

A.1.2.5.1.4 The RA Contractor shall specify analytical determinations that shall be performed to assess the nature of the contamination contained in all excavated soils and other wastes generated during the identified removal actions.

A.1.2.5.1.5 The RA Contractor shall collect, secure analytical services and obtain results from a state certified laboratory identifying the contents of all generated waste streams resulting from the removal action. The RA Contractor shall provide the generated data to the Army and to the proposed disposal facility for review.

A.1.2.5.1.6 The RA Contractor shall obtain approval from the Army of all off-site disposal facilities that are selected to receive wastes from SEDA.

A.1.2.5.1.7 All waste shall be disposed off-site at a permitted waste treatment storage and disposal facility.

A.1.2.5.1.8 The RA Contractor shall transport all generated waste materials from the removal actions from the site of the excavation and on-site stockpiles to the selected disposal site. All waste transportation shall be completed following procedures that are necessary to document the transfer of the waste from SEDA, over public roads, to the approved disposal site.

A.1.2.5.1.9 At a minimum, the RA Contractor shall document the quantity and type of waste materials moved from SEDA each day to an approved disposal site. At a minimum, collected records shall include a listing of all quantities and types of wastes transported. If necessary, bills of lading and hazardous waste manifests shall be prepared and entered into the project files to document the transportation to and disposal of materials at off-site licensed and approved landfills.

A.1.2.5.2 Treatment Of Water.

A.1.2.5.2.1 The RA Contractor shall store all wastewater in portable tanks appropriate for managing wastewater. The RA Contractor shall ensure that the tanks used have been constructed in accordance with all applicable codes and standards. The RA Contractor shall visually inspect all tanks for leaks and shall replace all leaking tanks.

A.1.2.5.2.2 The RA Contractor shall treat all wastewater on site and shall discharge the treated water in accordance with the approved discharge permit.

A.1.2.5.2.3 Following treatment of wastewater, the RA Contractor shall discharge all treated waters from this removal action including groundwater to a nearby drainage ditch. The RA Contractor shall include in the site plans all specific testing requirements for this discharge permit, and shall be responsible for meeting these testing requirements.

A.1.2.6 Drainage Control.

A.1.2.6.1 Run on Control. The RA Contractor shall implement and maintain, for the duration of the removal action, run on control measures to prevent non-excavation related and non-contaminated surface water from entering the work areas of the site. These measures shall consist of berms and ditches, as are necessary, that redirect the flow of surface water around the excavation site to the historic surface water discharge points.

A.1.2.6.2 Runoff Control. The RA Contractor shall implement and maintain, for the duration of the removal action, measures to prevent surface water from leaving the area of the excavation sites or stockpiles. These measures shall include berms or ditches that capture surface water in the work area for subsequent testing and disposal. The RA Contractor shall construct berms around all staging areas to prevent runoff from the stockpiled materials. Any collected runoff from the staging areas shall be collected and disposed of in accordance with the requirements of these
specifications.

A.1.2.6.3 Excavation Drainage. The RA Contractor shall provide pumps, hoses, and any other equipment necessary to remove accumulated water from the open excavation. The RA Contractor shall be required to remove water from the excavation when necessary to continue excavation activities, or if a safety threat exists. The water from the excavation shall be collected and treated in accordance with the requirements of these specifications.

A.1.2.7 Erosion/Dust Control

A.1.2.7.1 Erosion Control. The RA Contractor shall provide the materials and labor required to control erosion of soils originating from the site. These measures may include limiting the exposure area, placement of hay bales and silt fences or berms.

A.1.2.7.2 Dust Control. The RA Contractor shall take necessary measures, in addition to those required by federal, state, and local regulations, to eliminate or minimize the migration of dust off site due to site activities. At a minimum, the RA Contractor shall follow the requirements of the NYSDEC TAGM HWR-89-4031, "Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites," October, 27, 1989 (or most recent version) and the monitoring requirements in these specifications.

A.1.2.8 Air Monitoring And Action Levels

A.1.2.8.1 General. The RA Contractor shall monitor the emissions from the excavations and soil staging areas to assure compliance with all federal, state, and local regulations. Monitoring shall be conducted in accordance with the NYSDEC TAGM, "Fugitive Dust Suppression and Particulate Monitoring at Inactive Hazardous Waste Sites," October 27, 1989 (or most recent version), and with the New York State Department of Health "Community Air Monitoring Plan."

A.1.2.8.2 Calibration. The RA Contractor shall calibrate all air monitoring equipment weekly in accordance with the manufacturer's instructions, and shall maintain records of all calibrations. These records shall be made available to the Army's representative or to the regulators upon request.

A.1.2.9 Confirmatory Sampling And Analysis.

A.1.2.9.1 General. Confirmatory sampling shall be performed by the RA Contractor to verify the successful removal of soil, wastewaters and sediment containing contaminants of concern. The RA Contractor shall be responsible for confirmatory sampling and analysis in the excavations. Requirements are as presented in Appendix 3 of this SOW.

A.1.2.10 Demobilization And Site Restoration.

A.1.2.10.1 Demobilization. Following completion and acceptance of the work by the Contracting Officer, the RA Contractors shall provide all Contractor and subcontractor labor and materials required to decontaminate, dismantle, package, and transport from the site all Contractor or subcontractor equipment, materials, and personnel. Demobilization shall not be complete until site restoration is complete.

A.1.2.10.2 Removal. At the completion of the removal actions, the RA Contractor shall remove all temporary facilities, utility services, and debris, unless otherwise directed by the Army's representative. The RA Contractor shall restore the area in accordance with these specifications.

A.1.2.10.3 Site Restoration

A.1.2.10.3.1 General. The RA Contractor shall restore the site to its original condition except as described in these specifications or as directed by the Army. The RA Contractor shall grade the excavation sites to approximate the original site conditions. As necessary, the RA Contractor shall bring in documented clean fill to make up for any volume losses. The RA Contractor shall also grade the sites to minimize erosion during the revegetation period.

A.1.2.10.3.2 Revegetation. The RA Contractor shall revegetate the sites using grass seed upon completion of the backfill operations and demobilization. The RA Contractor shall revegetate the backfilled excavations and all work areas in which site work has killed off the vegetation.

A.1.3 Documentation/Recordkeeping

A.1.3.1 Daily Logs. The RA Contractor shall maintain daily logs that include the quantities of the soil excavated and treated the previous day and copies of all analytical data received the previous day. The daily logs shall also include any air monitoring results obtained the previous day and the volume of water treated the previous day.

A.1.3.2 Weekly Reports. The RA and Asbestos Contractor shall submit weekly reports each Monday morning to the Contracting Officer or his representative. The weekly reports shall summarize the daily logs from the previous week, and address administrative issues. Topics which shall be included in the weekly report are:

- A summary of the work completed.
- A discussion of the work planned for the upcoming week period.
- A review of problems that arose during the previous week and the resolution to each item.
- Documentation of health and safety meetings
- A review of health and safety issues

- Site visitor logs

A.1.4 Performance Schedule. The RA Contractor shall complete each of the project tasks within the time frame presented in the Contract Data Requirements List.

A.1.5 Deliverable Data

A.1.5.1 The RA Contractor shall prepare and submit a CDAP in accordance with ER 1110-1-263 and DD Forms 1423 and 1664-1.

A.1.5.2 The RA Contractor shall prepare and submit a written certification of the HSP in accordance with DD Forms 1423 and 1664-1.

A.1.5.3 The RA Contractor shall prepare and submit an SSHP in accordance with DD Forms 1423 and 1664-1.

A.1.5.4 The RA Contractor shall prepare and submit a Work Plan in accordance with DD Forms 1423 and 1664-1.

A.1.5.5 The RA Contractor shall prepare and submit weekly progress reports in accordance with DD Forms 1423 and 1664-1.

A.1.5.6 The RA Contractor shall prepare and submit a Final Report at the conclusion of the treatment period in accordance with DD Forms 1423 and 1664-1.

A.1.5.7 The RA Contractor shall submit all deliverable data to the Contracting Officer or his representatives. The Contracting Officer or his representatives will review the submissions to determine whether they meet the minimum contract requirements and will accept or reject them accordingly. The RA Contractor shall correct the deficiencies of the rejected deliverables and resubmit them within 30 days of rejection. The Contracting Officer's acceptance of any submittal does not constitute or imply approval or endorsement, and in no way relieves the RA Contractor of his responsibility to meet all the requirements of this document.

APPENDIX 2

SITE MAPS

(AVAILABLE UPON REQUEST)

APPENDIX 3

CONFIRMATION SAMPLING REQUIREMENTS

Confirmatory Sampling
If Required based on Debris found

1. Introduction
Confirmatory soil sampling will be conducted at each site where excavations are performed. The goal of the confirmatory sampling is to verify that the identified contamination has been removed, and that concentrations of contaminants remaining at the subject site comply with the cleanup objectives. If the results of the confirmatory analysis verify that the cleanup objectives have been achieved, no further excavation will be conducted at the subject site. If the confirmatory results show that the Army's cleanup objectives have not been achieved, further excavation may be conducted until such verification is provided.

2. Equipment and Supplies
The following equipment and supplies will be required to complete the confirmatory sampling.
Field Book and Project Plans
Sample Labels
Shipping Labels
Sample Records
Shipping Forms
Chain-of-Custody Forms
Camera
Photo-ionization Detector
Personal Protective Equipment in accordance with the Health and Safety Plan
Marker stakes, flagging and paint
Tape Measures
Decontamination Supplies
Inert (e.g., stainless steel or Teflon®) sampling equipment
Hand Auger
Mixing Bowls
Pre-cleaned Sample Bottles
Plastic Sheeting
Shipping Tape
Ice Chests and Ice (for sample transport)

3. Number, Frequency and Location of Confirmatory Sampling
In general, confirmational soil samples will be collected from the base and sidewalls of each excavation. Sidewall samples will not be collected where the depth of the excavation measures 12 inches or less. In situations where the sidewalls of an excavation are 12 inches or less in depth, confirmational samples will be collected outside the perimeter of the excavation.

At least one discrete sample will be collected from each face of an open excavation that is 12 inches in depth or greater. Thus, a minimum of five confirmational samples (i.e., one base, and four sidewall samples) will be collected at each excavation. Additional confirmational samples will be collected from the base of each excavation at a rate of at least one per every 900 square feet, or fraction thereof, of surface area. Furthermore, additional sidewall samples will be collected for each additional 30-foot length, or fraction thereof, of excavation opened on any sidewall face.

For excavations where the depth of the excavation is less than or equal to 12 inches in depth, confirmational samples will be collected from the perimeter of the excavation at a rate of no less than one sample per every 30 linear feet of length on each edge of the excavation. A minimum of one sample will be collected along each edge of the excavation. Additionally, at least one sample will be collected from the base of the excavation, and additional samples will be collected from the base of the excavation at a rate of at least one per every additional 900 square feet or less of surface area.

Locations of confirmational sampling will be biased towards areas that are most likely to be contaminated. Visual and olfactory sensing and use of portable field monitoring devices (e.g., photo-ionization detectors) should be used, within the bounds of the site-specific health and safety plan and good operating procedures, to assist in the selection of additional confirmational sampling locations.

Additional confirmational samples will be collected and analyzed, as follows:

- ***5 samples shall be taken from areas surrounding each site from areas that are considered not to have been impacted by the release. This will be part of an effort to establish background and will be used for comparison to analytical results from other, more site-specific, confirmation samples.***
- ***all existing monitoring wells from each site shall be re-developed, sampled and analyzed to re-verify that no impacts on groundwater quality have resulted.***
- as needed, based on results of field screening and observations, or based on professional judgment. Samples may be collected at a rate of one sample per 625 square feet if particularly high contamination concentrations are noted during excavation or initial confirmatory sampling and analysis.

4.0 Sampling Method

Once the excavation is complete, a drawing of the completed excavation will be prepared and necessary measurements shall be recorded in the field notes. Specific measurements will be collected including the length, width, and depth (if subsurface excavation) of the excavation. The depth of the excavation will be reported at each corner, and at intermediate locations that are no further than 100 feet apart. These measurements will be used to document that sufficient samples have been collected from the excavation to reasonably assess whether residual contamination remains in the area of the excavation.

Once the drawing of the excavation is prepared, all proposed sampling locations will be marked and labeled and information describing the location of each proposed sampling location will be transcribed into the field notes and onto site maps. Each sampling location must be uniquely identified with a sample location.

Confirmational samples will be collected from a depth of not less than one-inch below the excavation's surface and not more than six inches below the excavation's surface. The one-inch minimum is recommended to ensure that soils exposed directly to the atmosphere, which could result in the off-gassing of volatile organic or inorganic (e.g., sulfide or cyanide) compounds and a decreased level of volatile content over time, are not collected and used for the volatile compound analyses. The depth from which confirmational samples are obtained will be recorded in the field notes at the time of collection.

At the time of their collection, confirmational soil samples will be visually described for:

- soil type,
- color,
- moisture content,
- texture,
- grain size and shape,
- consistency,
- visible evidence of staining or discoloration, and
- any other observations (e.g., odors).

All data collected at the time of sample collection will be transcribed into the field records. The identity of the sampler, the date and time of sample collection, the location of the sample collection (i.e., location id), the identity of the sample (i.e., sample number), a description of the sampling method (e.g., auger, trowel, spade, homogenized, etc.) used, the number of sample containers collected, and the intended analysis that will be completed will be recorded.

All sampling will be completed using decontaminated, inert (e.g., stainless steel, Teflon®, etc.) sampling equipment. Selected sampling equipment may be used for all collection activities conducted at one location (e.g., the sample and its duplicate for all required analyses) during one contiguous time period; however, once the equipment has been used at one location, it can not be used at another location until it has been thoroughly decontaminated per prescribed procedures.

Samples collected for volatile compound analyses (e.g., volatile organic compounds or cyanide) will be collected first and will be transferred directly from the ground to the appropriate sample container (e.g., EnCore™). Samples for volatile compound analyses will not be homogenized. Samples collected for non-volatile analyses (e.g., semivolatile organic compounds, pesticides, metals, nitrate, TOC, TPH) should be collected and transferred to an inert mixing bowl and homogenized prior to being placed into their final sample bottles.

5.0 Sampling Equipment Decontamination. The RA Contractor shall use disposable sampling equipment wherever possible to minimize decontamination requirements. When reusable equipment is used, the RA Contractor shall decontaminate all equipment prior to use in sampling. The decontamination procedure shall consist of successive washes in the following order:

- Potable water rinse
- Wash with laboratory grade detergent (Alconox or equivalent)
- Distilled water rinse
- Methanol rinse
- Hexane rinse
- Distilled water rinse

If samples are to be analyzed for metals, a nitric acid rinse and an additional distilled water rinse shall be added between steps 3 and 4. All decontamination wastes shall be disposed of off-site as hazardous waste.

6.0 Sample Volumes. Containers. and Preservation. The RA Contractor shall ensure that all sample containers, preservation, packaging, and holding times are in accordance with EPA Region 2 and NYSDEC protocols. All samples collected shall be properly logged, labeled, packaged, and stored in an iced cooler immediately after collection and until arrival at the laboratory. All samples shall be accompanied by a completed chain-of-custody form that can be used to document sample custody.

7.0 Laboratory Analyses. All soil samples shall be analyzed using NYSDEC Analytical Services Protocols (ASP) and EPA SW-846 Methods. The RA Contractor shall ensure that the laboratory is capable of providing reporting limits below the soil cleanup levels so that reported non-detect values may be compared to the cleanup levels. The RA Contractor shall ensure that the selected laboratory has been approved by NYSDEC and the Corps of Engineers, Missouri River Division.

APPENDIX 4

TEST PIT LOGS

(AVAILABLE UPON REQUEST)

Attachment 1

Quality Assurance Surveillance Plan NON-TIME CRITICAL REMOVAL ACTION AT THE RADIOLOGICAL SITES (SEAD-12) SENECA ARMY DEPOT ACTIVITY ROMULUS, NEW YORK				
TASK	**METHOD OF SURVEILLANCE**	**PERFORMANCE OBJECTIVES**	**MAXIMUM ALLOWABLE DEGREE OF DEVIATION FROM RQMT (AQL)**	**FREQUENCY INSPECTED**
1 - Preparation of Work Plan	100% Inspection	Prepare Work Plan in accordance with this PWS and the requirements of EPA, NYSDEC, and SEDA.	Zero Defects	One time, or as needed
2 – Non-Time Critical Removal Action at the Radiological Site (SEAD-12)	Periodic Inspection	Perform removal action in accordance with this PWS and the approved Work Plan, Construction QC and Government QA, Sampling and Analysis Plan, Site Safety Plan and any other approved Plans and Documentation for the Seneca Program.	Zero Defects	One time, or as needed
3 - Weekly Reports	100% Inspection	Prepare Weekly Reports in accordance with this PWS and the requirements of EPA, NYSDEC, and SEDA.	Zero Defects	One time, or as needed

Quality Assurance Surveillance Plan NON-TIME CRITICAL REMOVAL ACTION AT THE RADIOLOGICAL SITES (SEAD-12) SENECA ARMY DEPOT ACTIVITY ROMULUS, NEW YORK				
TASK	**METHOD OF SURVEILLANCE**	**PERFORMANCE OBJECTIVES**	**MAXIMUM ALLOWABLE DEGREE OF DEVIATION FROM RQMT (AQL)**	**FREQUENCY INSPECTED**
4 - Removal Completion Report	100% Inspection	Prepare Weekly Reports in accordance with this PWS and the requirements of EPA, NYSDEC, and SEDA.	Zero Defects	One time, or as needed
5 - Project Management	100% Inspection	The contractor shall meet the project management requirements as specified in the contract.	Zero Defects	One time, or as needed
Optional Task 1 – RCRA Closure of Bldg 803	Periodic Inspection	Perform RCRA Closure in accordance with the Site Safety Plan and any other approved Plans and Documentation for the Seneca Program.	Zero Defects	One time, or as needed

Section E - Inspection and Acceptance

Inspection and acceptance shall be in writing and in accordance with the provided Statement of Work dated 31 October 2008.

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 06-FEB-2009 TO 28-FEB-2010	N/A	N/A FOB: Destination	
0002	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

Monthly invoices shall be submitted electronically to the following point of contact:

John (Steve) Nohrstedt
4820 University Square
Huntsville, AL 35816
256-895-1639
John.nohrstedt@usace.army.mil

ACCOUNTING AND APPROPRIATION DATA

AA: 21920200000 088130 32301630J649300824000 ENVR 01110
AMOUNT: $1,083,386.00
CIN W31RYO903613360001: $1,083,386.00

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.243-2 Alt I	Changes--Cost-Reimbursement (Aug 1987) - Alternate I	APR 1984

Proposal for New Task Order

Prepared by:

Parsons Infrastructure & Technology Group, Inc

For:

Proposed New Task Order
USACE Contract No. W912DY-08-D-0003
Non-Time Critical Removal Action at Radiological Sites (SEAD-12) and Optional RCRA Closure of Building 803 (SEAD-72), Seneca Army Depot Activity.

January 23, 2009

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DEPARTMENT OF THE ARMY
HUNTSVILLE CENTER, CORPS OF ENGINEERS
P.O. BOX 1600
HUNTSVILLE, ALABAMA 35807-4301

REPLY TO
ATTENTION OF

Center Support Branch
CEHNC-CT-D

September 24, 2008

Parsons Infrastructure & Technology Group
Mr. Jeff Adams
150 Federal Street, 4th Floor
Boston MA 02110-1713

Subject: Revised Request for Proposal (RFP), W912DY-08-D-0003, Task Order 0003, **Non-time Critical Removal Action at Radiological Sites (SEAD-12) Seneca Army Depot Activity, Romulus, New York**

Dear Mr. Adams:

You are requested to submit a firm fixed price proposal in accordance with the attached Performance Work Statement dated 19 September 2008.

Request that you submit a proposal as soon as possible but no later than COB, Wednesday, October 1, 2008. The proposal shall be prepared in accordance with Schedule B of the subject contract and should include supporting data in sufficient detail to be easily evaluated. Include copies of your subcontractor quotes or a detailed breakdown on subcontractor costs. Additionally, your proposal shall clearly state any assumptions. Clarifications, or exceptions used in preparing your proposal.

Please submit your electronic proposal to the point of contract for this action, Pamela J. Shirley, Pamela.j.shirley@usace.army.mil or to the Contracting Officer, Sharon Butler, Sharon.h.butler@usace.army.mil. If you have any questions, please contact Pamela J. Shirley at 256-895-1152.

This request for proposal (RFP) does not in any manner imply or authorize your firm to begin any actions listed or referenced in the attached statement of work.

Sincerely,

SHARON H. BUTLER
Contracting Officer

Encls

PERFORMANCE WORK STATEMENT
NON-TIME CRITICAL REMOVAL ACTION
AT THE
RADIOLOGICAL SITES (SEAD-12),
SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK
04 OCTOBER 2008

1.0 GENERAL STATEMENT OF SERVICES

1.1 General. A Remedial Investigation was preformed at this site and the physical presence of military unique debris from the classified mission has been documented. The depot has officially been closed by the DOD and the US Army and in accordance with the Base Realignment and Closure (BRAC) process, portions of the depot are now being released to the public and private sectors for reuse.

The goal of the proposed action at SEAD-12 is (1) to eliminate and contain an identified source of residual materials in the soil. The removal of miscellaneous components and other containers is the focus of the planned removal action for this site.

1.2 Location. SEDA is a US Army facility located in Seneca County, New York. SEDA occupies approximately 10,600 acres. It is bounded on the west by State Route 96A and on the east by State Route 96. The cities of Geneva and Rochester are located to the northwest (14 and 50 miles, respectively); Syracuse is 50 miles to the northeast and Ithaca is 31 miles to the south. The surrounding area is generally used for farming.

1.3 Regulatory Status. SEDA was included on the Federal Facilities National Priorities List on 13 July 1989. Consequently, all work to be performed under this contract shall be performed according to CERCLA guidance and the Federal Facilities Agreement in effect for Seneca Army Depot (Reference 11.1).

1.4 Statutory Authority. Authority for responding to releases or threats of releases from a hazardous waste site is addressed in section 104 of CERCLA, as amended. The Army has been delegated the response authority for Army sites, whether or not the sites are on the National Priorities List of the U.S. Environmental Protection Agency (EPA). Under CERCLA Section 104(b), the Army is authorized to investigate, survey, test, or gather other data required to identify the existence, extent, and nature of contaminants, including the extent of danger to human health or welfare and the environment. In addition, the Army is authorized to undertake planning, engineering, and other studies or investigations appropriate to directing response actions that prevent, limit, or mitigate the risk to human health or welfare and the environment.

1.5 Basis of this Removal. The Remedial Investigation of this site is the basis for the action to remove Army unique components.

2.0 OBJECTIVE

The objective of this Performance Work Statement (PWS) is to perform Removal Action at the Radiological Sites (SEAD-12) at Seneca ADA as defined in this PWS and as laid out in the design documents. In general, the purpose of this action is to remove the Army materials that came from military activity on the site. Because the impetus for the removal action is the presence of miscellaneous component debris, and due to the uncertain nature of the contents, excavation and disposal, rather than any sort of in-situ treatment of these items, is logical.

3.0 DETAILED DESCRIPTION OF SERVICES

3.1 General Requirements.

3.1.1 All work performed by the Contractor shall be designed and implemented in a manner which complements earlier investigations and shall conform to this PWS, the approved design and the requirements of EPA, NYSDEC and SEDA.

3.1.2 The Contractor shall prepare a Work Plan to complete the require removal and a cost proposal to implement as planned. The assumption shall be that there will be very little or no waste generated that will require off-site disposal.

3.1.3 All volumes referenced in this PWS are in-place volumes. Payment will be made based upon actual in-place volumes and not excavated, expanded volumes. The Contractor shall be responsible for performing survey work necessary to determine that required excavation depths and extents have been attained.

3.2 Removal Action.

3.2.1 (Task 1) Preparation of Work Plans (Firm Fixed Price). Using the project layout/progression given in Appendix 1 of this PWS, the Contractor shall prepare a complete Work Plan for the removal actions to be carried out. This WP shall form the design of the removal to be conducted. The Contractor shall layout all aspects of the work to be done. At a minimum, the plan shall include, but not be limited to the following:

- Construction Quality Control (QC) and Government Quality Assurance (QA): to be conducted IAW NYD Specification 01440 and ER 1180-1-6. Copies can be provided electronically if requested
- Sampling and Analysis Plan: to include Data Quality Objectives
- Site Safety Plan IAW ER 385-1

3.2.2 (Task 2) Non-Time Critical Removal Action (NTCRA) at the Radiological Site (SEAD-12).

3.2.2.1 (Task 2.1) Excavation (Cost Plus Fixed Fee).

3.2.2.1.1 General. The Contractor shall document its assumptions for performing the required work and provide a breakdown of the personnel required, the estimated hours of effort, estimated equipment costs and an overall estimate of total costs to complete the work that is required by the PWS. In addition, the Contractor will provide definitions of additional work, associated labor requirements, and associated costs that may be required in the event that situations are encountered in the field that are not currently anticipated and provide unit costs for services that may be needed to support the requested NTCRA. .

At the minimum, the Contractor shall provide the personnel, equipment and resources to properly perform site layout, excavation and staging of 14,000 cyds of soils and geophysical anomalies per this PWS and the design documents. It is estimated that approximately 2,000 cyds of debris will be found on site. Additionally, the Contractor shall segregate and stage excavated materials according to the following:

- non-radiologically contaminated soils/sediments
- non- radiologically contaminated debris
- radiologically-contaminated soils/sediments
- radiologically-contaminated debris

The contractor shall be responsible for staging/properly containing excavated materials and testing the materials prior to disposal. Excavation shall be accomplished so that intact containers or items are removed without damage. The contractor shall be responsible for managing and recording the quantities of waste generated under each category. All associated activities shall be performed according to this PWS and the design documents.

3.2.2.1.2 Debris Evaluation. debris shall be evaluated as follows:

- debris will be scanned for rad on the outside, visible soil removed and the debris placed in an on-site, separated area.
- debris will be verified in the presence of Army personnel. Scheduled openings will be coordinated with the Contracting Officer (KO) or the Contracting Officer Representative (COR). A week delay of opening debris from the time of excavation shall be planned for.
- Upon opening, debris will be scanned for RAD. If clear, contents will be reviewed by the Army for determination of disposition.
- If radiation is found, debris contents will be reviewed by Army personnel, separated from others and labeled.
- If the determination is that contents have potential concern, they shall be transported to Igloo A0101 by the Contractor and secured by the Army.
- After army review of debris, the contractor shall perform necessary testing to determine hazardous constituents and shall dispose of the drum accordingly. This effort is identified in the pricing schedule as debris disposal.
- debris and material not retained by the army, and not hazardous after testing, shall be considered for recycling
- debris that are placed in the secure structure will not be the responsibility of the contractor for disposal.

3.2.2.2 The Contractor shall replace sols back in the excavation following completion of the required KO or COR approval. The Contractor shall assume that 3 days will be required to receive approval and shall plan accordingly.

3.2.2.3 (Task 2.2) Disposal of Excavated Materials (Cost Plus Fixed Fee). The Contractor shall provide a breakdown of the personnel required, the estimated hours of effort, estimated equipment costs and a n overall estimate of total costs to complete the work that is required by the PWS. In addition, the Contractor will provide definitions of additional work, associated labor requirements, and associated costs that may be required in the event that situations are encountered in the field that are not currently anticipated and provide unit costs for services that may be needed to support the requested NTCRA. The Contractor shall provide the personnel, equipment and resources to properly dispose of all excavated materials, not considered suitable for backfill, as dictated by the test results received. Disposal shall be assumed as follows:

- non-hazardous soils/sediments
- non-hazardous debris
- hazardous soils/sediments (HTW standpoint)
- hazardous debris (HTW standpoint)
- mixed waste soils/sediments

- mixed waste debris
- radiologically-contaminated soils/sediments
- radiologically-contaminated debris

3.2.2.4 (Task 2.3) Restoration of the Site (Cost Plus Fixed Fee). The Contractor shall provide a breakdown of the personnel required, the estimated hours of effort, estimated equipment costs and a n overall estimate of total costs to complete the work that is required by the PWS. In addition, the Contractor will provide definitions of additional work, associated labor requirements, and associated costs that may be required in the event that situations are encountered in the field that are not currently anticipated and provide unit costs for services that may be needed to support the requested NTCRA.The Contractor shall provide the personnel, equipment and resources to properly restore the site. Fill materials that are demonstrated to comply with cleanup levels shall be used to backfill and restore the site.

3.2.3 (Task 3) Weekly Reports (Firm Fixed Price). During field work, the Contractor shall submit Weekly Reports according to the distribution in paragraph 4.7.2 and in the quantities shown in 4.7.3, "Letter Reports". These reports shall address the following:

- A summary of work completed in the field. Upon request, copies of trip reports and/or field logs shall be provided.
- Anticipated or actual delay of a scheduled field activity, to include basis and any effect on subsequent events or scheduled activities.
- Minutes of all formal Project Manager or other formal meetings held during the preceding period, at which the Contractor is in attendance.
- Status report on all milestones met on schedule during the period, report and explanation for any milestones not met during the preceding period and an assessment of milestones scheduled for the next reporting period.
- Outside inspection reports, audits, or other administrative information developed during the preceding period, including notice of any outside inspections or audits scheduled during the next reporting period.
- Permit status as applicable.
- Personnel staffing status or update.
- Community relations activity update.
- Sampling data

3.3 (Task 4) Removal Completion Report (Firm Fixed Price). At the conclusion of field work, the Contractor shall submit a Removal Completion Report to the distribution in Section 4.7.2 in the quantities shown in paragraph 4.7.3. This report shall not only present a recapitulation of the work that was done but shall also include discussions of the following:

- Confirmation sample results and how those results demonstrate success in the removal area
- Conclusions regarding overall success at each site.

3.4 (Task 5) Project Management (Firm Fixed Price). The Contractor shall manage the Order in accordance with the basic contract Work Statement. The Contractor shall perform all project management associated with this TO as a part of this task including, but not limited to, preparing and submitting a master network schedule, cost and manpower plan, monthly progress reports, monthly individual performance report and cost/schedule variance report, work task proposals and a program plan.

3.5 (Optional Task 1) RCRA Closure of Building 803 (Firm Fixed Price). The Contractor shall provide the labor and equipment necessary to Close Building 803 as laid out in the approved plan.

4.0 SUBMITTALS AND PRESENTATIONS

4.1 Format and Content. Documents shall present all data, analyses, and recommendations. All drawings shall be of engineering quality in drafted form with sufficient details to show interrelations of major features on the installation site map. When drawings are required, data may be combined to reduce the number of drawings. The report shall consist of 8-½" x 11" pages with drawings folded, if necessary, to this size. A decimal paragraphing system shall be used, with each section and paragraph of the reports having a unique decimal designation. The report covers shall consist of vinyl 3-ring binders and shall hold pages firmly while allowing easy removal, addition, or replacement of pages. A report title page shall identify the Contractor, the Corps of Engineers, New York District, and the date. The Contractor identification shall not dominate the title page. Each page of draft and final reports shall be stamped "DRAFT" and " FINAL", respectively. Each report shall identify the members and title of the Contractor's staff which had significant, specific input into the report's preparation or review. Submittals shall include incorporation of all previous review comments accepted by the Contractor as well as a section describing the disposition of each comment.

4.2 Presentations. The Contractor shall make presentations of work performed according to the schedule in paragraph 4.6. Each presentation shall consist of a summary of the work accomplished and anticipated followed by an open discussion among those present. The Contractor shall provide a minimum of two persons at the meetings which are expected to last one day each.

4.3 Conference Minutes. The Contractor shall be responsible for taking notes and preparing the minutes of all conferences, presentations, and review meetings. Conference notes shall be prepared in typed form and the original furnished to the Contracting Officer (within five (5) working days after date of conference) for concurrence and inclusion in the next monthly report. This report shall include the following items as a minimum:

a. The date and place the conference was held with a list of attendees. The roster of attendees shall include name, organization, and telephone number;

b. Written comments presented by attendees shall be attached to each report with the conference action noted. Conference action as determined by the Government's Project Manager shall be "A" for an approved comment, "D" for a disapproved comment, "W" for a comment that has been withdrawn, and "E" for a comment that has an exception noted;

c. Comments made during the conference and decisions affecting criteria changes must be recorded in the basic conference notes. Any augmentation of written comments should be documented by the conference notes.

4.4 Confirmation Notices. The Contractor shall be required to provide a record of all discussions, verbal directions, telephone conversations, etc., participated in by the Contractor and/or representatives on matters relative to this contract and the work. These records, entitled "Confirmation Notices", shall be numbered sequentially and shall fully identify participating personnel, subject discussed, and any conclusions reached. The Contractor shall forward to the Contracting Officer, within 5 working days, a reproducible copy of said confirmation notices. Distribution of said confirmation notices shall be made by the Government.

4.5 Progress Reports and Charts. The Contractor shall submit progress reports to the Contracting Officer with each request for payment. The progress reports shall indicate work performed and problems incurred during the payment period. Upon award, the Contractor shall, within 15 days, prepare a progress chart to show the proposed schedule for completion of the project. The progress chart shall be prepared in reproducible form and submitted to the Contracting Officer for approval. The actual progress shall be updated and submitted by the 15th of each month and may be included with the request for payment.

4.6 Proposed Schedule. The proposed schedule for the removal and the post removal work is given below. All work and services shall be completed by 31 June 2009.

Milestone	Date
Notice to Proceed	15 Oct 08
Draft Work Plan	1 Nov 08
Comments to Contractor	5 Nov 08
Final Work Plan	8 Nov 08
Initiation of Field Work	15 Nov 08
Completion of Field Work	15 Dec 08
Draft Removal Report	30 Dec 09
Comments to Contractor	10 Jan 08
Final Removal Report	30 Jan 08
Meetings/Presentations	TBD

4.7 Submittals.

4.7.1 General Submittal Requirements.

4.7.1.1 Distribution. The Contractor is responsible for reproduction and distribution of all documents. The Contractor shall furnish copies of submittals to each addressee listed in paragraph 4.7.2 in the quantities listed in the document submittal list. Submittals are due at each of the addresses not later than the close of business on the dates shown in paragraph 4.6.

4.7.1.2 Partial Submittals. Partial submittals will not be accepted unless prior approval is given.

4.7.1.3 Cover Letters. A cover letter shall accompany each document and indicate the project, project phase, the date comments are due, to whom comments are submitted, the date and location of the review conference, etc., as appropriate. (Note that, depending on the recipient, not all letters shall contain the same information). The contents of the cover letters should be coordinated with CENAN-PM prior to the submittal date. The cover letter shall not be bound into the document.

4.7.1.4 Supporting Data and Calculations. The tabulation of criteria, data, circulations, etc., which are performed but not included in detail in the report shall be assembled as appendices. Criteria information provided need not be reiterated, although it should be referenced as appropriate. Persons performing and checking calculations are required to place their full names on the first sheet of all supporting calculations, etc., and initial the following sheets. These may not be the same individual. Each sheet should be dated.

4.7.1.5 Reproducibles. One camera-ready, unbound copy of each submittal shall be provided to the Contracting Officer in addition to the submittals required in the document and submittal list.

4.7.2 Addresses.

a) Contracting Officer (KO)
US Anny Engineering and Support Center, Huntsville
ATTN: CEHNC-CT-S (MS. Sharon Butler)
4820 University Square,
Huntsville, Alabama, 35816

b) Huntsville Center Project Manager (PM)
US Army Engineering and Support Center, Huntsville
ATTN: CEHNC-ED-CS-P (Mr. Steve Nohrstedt)
4820 University Square,
Huntsville, Alabama. 35816

c) Seneca ADA Installation Manager
Commander's Representative
Seneca ADA
ATTN: SMASE-CO (Bld. 123, Mr. Absolom)
5786 State Route 96, P.O. Box 9
Romulus, New York 14541-5001

d) Environmental Health Risk Assessor
Commander
USACHPPM (PROV)
ATTN: MCHB-ME-R (Mr. Hoddinott)
Building E1677
Aberdeen Proving Ground, MD 21010-5422

e) New York District (CENAN) Project Manager
Commander
US Army Engineer District, New York
Seneca Office for Project Management
ATTN: Mr. Randy Battaglia, Bld. 125
P.O. Box 9
5786 State Route 96
Romulus, New York 1454 1-5001

f) New York District (CENAN) Construction Manager
Commander
US Army Engineer District, New York
Seneca Office for Project Management
ATTN: Mr. Thomas Battaglia, Bld.125
P.O. Box 9
5786 State Route 96
Romulus, New York 1454 1-5001

g) USAEC Representative to Seneca
Commander
U.S. Army Environmental Center,
ATTN: Mr. Roger Walton
Aberdeen Proving Ground, MD 21010-5422

4.7.3 Document and Submittal List

	DRAFT	FINAL
CEHNC-ED-CS-P	2	2
SMASE-CO	3	3
MCHB-ME-R	2	2
CENAN-PM	1	1
CENAN-Construction	1	1
AEC	1	1
TOTAL	10	10

5.0 SAFETY REQUIREMENTS

5.1 Site activities in conjunction with this project may pose unique safety hazards which require specialized expertise to effectively address and eliminate.

5.2 Prior to commencement of field activities, the Contractor shall submit for review an amendment to the Work Plan SHERP which is to contain the following:

5.2.1 A discussion of the Contractor's organization structure, to include lines of authority of the Contractor and all subcontractors, shall be provided along with an organization chart showing the lines of authority for safety and health from site level to corporate management. Each person assigned specific safety and health responsibilities shall be identified and pertinent qualifications and experience shall be described.

5.2.2 Documentation of compliance with training and medical surveillance requirements for affected employees shall be provided. A format for such documentation is provided in the Work Plan SHERP.

6.0 QUALITY ASSURANCE PROJECT PLAN REQUIREMENTS

The Contractor shall perform all sampling and analysis activities according to the requirements presented in the Work Plan.

7.0 (BLANK)

8.0 (BLANK)

9.0 MANAGEMENT OF FUNDS

No transfer of funds by the Contractor between tasks will be allowed without the prior approval of the Contracting Officer or the Contracting Officer's Representative.

10.0 PUBLIC AFFAIRS

The Contractor shall not publicly disclose any data generated or reviewed under this contract. The Contractor shall refer all requests for site information to the SEDA Public Affairs Office and requests for contract information shall be forwarded to the Contracting Officer, US Army Engineering and Support Center, Huntsville. Reports and data generated under this contract shall become the property of the Department of Defense and distribution to any other source by the Contractor unless authorized by the Contracting Officer, is prohibited. The Contractor shall notify the Contracting Officer and Installation Public Affairs Office prior to any contacts with regulatory agencies.

11.0 REFERENCES

11.1 "Federal Facility Agreement under CERCLA Section 120 in the matter of Seneca Army Depot, Romulus, New York", Docket No. 11-CERCLA-FFA-00202, USEPA, U.S. Department of the Army, and the New York State Department of Environmental Conservation, November 1990.

APPENDIX 1

DETAILED DESCRIPTION OF REQUIREMENTS

A.1.0 DETAILED DESCRIPTION OF REQUIREMENTS

A.1.1 MOBILIZATION

A.1.1.1 Off Site Or On Site Borrow Pit. Prior to starting the removal actions, the RA Contractor shall locate an off-site borrow pit that will be used to provide clean backfill. The RA Contractor shall be responsible for evaluating and certifying alternative borrow pit sites to ensure that the borrow material used for site backfill operations is clean. The borrow soil must be sampled and analyzed, and the results of the analyses must be provided to the Army prior to its use at the site. There must be enough borrow material available to meet the project requirements. The RA Contractor shall estimate the amount of borrow available prior to the initiation of the work. The RA Contractor shall submit a report that presents the data collected from the potential borrow pit(s) evaluated. This report shall include a site plan of the alternative sites along with an estimate of the quantity of borrow material available. The report shall present chemical and physical laboratory analysis results.

A.1.1.2 Utilities. The RA Contractor shall be responsible for the mobilization of necessary temporary site facilities for the performance of this removal action. RA Contractor shall be required to obtain and pay for temporary utilities from the appropriate utility providers.

A.1.1.3 Site Clearance. The RA Contractor shall locate, identify, mark, and protect site structures and utilities from damage. The RA Contractor shall protect survey benchmarks from damage or displacement. The RA Contractor shall remove surface debris and clear areas required for site access and excavation.

A.1.1.4 Site Security. The RA Contractor shall be responsible for limiting and controlling personnel and wildlife entry into the exclusion zone, excavation, and any other potentially hazardous locations. The RA Contractor shall construct a security fence around the work areas.

A.1.1.5 Decontamination Facility (If Required). This section describes the basic requirements for decontamination activities that must be completed during, and the facilities that must be developed for, each removal action site.

A.1.1.5.1 The RA Contractor shall supply all labor, materials, and equipment needed to design, construct, and equip decontamination facilities in accordance with these specifications.

A.1.1.5.2 The RA Contractor shall decontaminate all excavation and transport equipment prior to its:

- use at a new site,
- removal from SEDA,
- use for handling of clean borrow materials intended for backfilling.

A.1.1.5.3 The RA Contractor shall design and operate decontamination facilities in a manner that ensures that all of the debris resulting from, and the materials used during, the decontamination process are captured and recovered prior to their release to the surrounding environment.

A.1.1.5.4 Fluids and solids generated during decontamination activities will be segregated, and recovered. Fluids and solids may be separated by allowing the mixed wastes to flow into a lined sump where they are allowed to settle. The top layer of liquids will be decanted from the sump and placed into appropriate containers for transport to storage, treatment, and disposal facilities. Recovered solids will be added to the excavated soils stockpiled for disposal, or placed in other suitable transport containers for subsequent transport and disposal at off-site facilities.

A.1.1.5.5 All personnel protective equipment used during site operations will be segregated from other removal action debris and collected as a separate stream for off-site disposal at approved facilities.

A.1.2 SITE OPERATIONS

A.1.2.1 Staging Areas. The RA Contractor shall construct, operate and maintain separate staging areas for the temporary storage and stockpiling of clean and contaminated soil. Additional requirements for the staging areas are provided below:

A.1.2.1.1 The locations of the staging areas established for clean and contaminated soil shall be clearly marked and identified on the site plan. Each staging area shall have sufficient capacity for up to 6 days volume of soil.

A.1.2.1.2 The RA Contractor shall underline all staging areas with 40-mil HDPE (or equivalent) liner.

A.1.2.1.3 The RA Contractor shall use berms or equivalent means to prevent surface water run-on and run-off from the designated staging areas.

A.1.2.1.4 The RA Contractor shall cover all soil stockpiles with a tarp that is weighted appropriately to prevent erosion of the pile by wind, rain, snow, or storm water. All soil stockpiles shall be covered to the fullest extent possible. Storage piles shall be covered at all times when they are not being actively worked.

A.1.2.1.5 The RA Contractor shall minimize vehicular traffic on staging area liners to prevent damage to the liner. The RA Contractor shall use only rubber-tired loaders in the staging area to minimize damage to the liner.

A.1.2.1.6 The RA Contractor shall inspect storage pile liners and covering tarps at least once per work day. If the integrity of the liner or the covering tarp is breached, the breach shall be immediately repaired or the contents of the stockpile shall be moved to another location that is constructed per the specifications defined above.

A.1.2.1.7 If a stockpile is relocated due to a failure of the liner or covering tarp, the new location will be marked on the site plan and reported to the Army.

A.1.2.2 Preparation For Excavation. The RA Contractor shall survey and mark each site to delineate the proposed extent of the excavation. Tasks that require surveying are layout of the soil excavations, sampling locations, and preparation of the project record drawings. All surveying shall be done under the supervision of a New York licensed and registered surveyor. The RA Contractor shall identify the required excavation lines, levels, contours, and datum used to delineate the extent of the proposed excavation. The RA Contractor shall identify and protect existing structures, utilities and existing benchmarks from damage during the site operations.

A.1.2.3 Excavation. The RA Contractor shall be responsible for excavation of debris areas. Specifications pertinent to the excavation of contaminated soil are provided below.

A.1.2.3.1 The extent of the proposed excavations may be modified as are required to comply with other parts of this subsection, which are provided subsequently.

A.1.2.3.2 SEAD-12. The Contractor shall excavate 14,000 cy of soils at this site as laid out in Figure 1 of Appendix 2. The site will be regraded. It is assumed that NYCRR Part 360 will no longer apply because the fill area is being removed. The remaining areas will be covered with crushed stone (if required). The excavation will be dewatered and the water placed in holding tanks. Any groundwater collected will be treated and disposed in accordance with all state and federal regulations. During the excavation process, the sides of the excavation may be sloped to the levels required by OSHA. Shoring or bracing may also be used. Four additional monitoring wells will be installed at the site as directed by field personnel after confirmation sampling has been completed and results analyzed.

A.1.2.3.3 The RA Contractor shall excavate and manage all soil from the removal action site. The minimum extent of the required excavation is defined in the decision documents. The excavation limits shown shall be considered as initial.

A.1.2.3.4 The RA Contractor shall collect samples of the excavated soil and submit them for analysis to develop source characterization data needed by the disposal facility.

A.1.2.3.5 Backfill of the excavation shall not begin until the confirmational sample laboratory results are reviewed and the final limits of excavation are defined. If the laboratory results indicate that additional soils must be excavated, the RA Contractor shall notify the KO.

A.1.2.3.6 Excavations shall be made and maintained in accordance with the Grading and Excavation Plan submitted by the RA Contractor and approved by the Army. The RA Contractor shall grade the upper perimeter edge of the excavation to prevent surface water inflow into the open excavation.

A.1.2.3.7 The RA Contractor shall use appropriate dust suppression and vapor control measures to minimize emissions from the excavation. The RA Contractor shall conduct air monitoring in accordance with the NYSDOH "Community Air Monitoring Plan". Should the air monitoring action levels be exceeded, work shall be stopped until appropriate air emission control measures can be instituted.

A.1.2.3.8 The RA Contractor shall notify the Army of any unexpected subsurface conditions and discontinue work in the affected area until notified to resume work. Work is to continue in unaffected portions of the site.

A.1.2.3.9 Excavation shall not be conducted during periods of inclement weather (i.e., rain or snow events).

A.1.2.3.10 The RA Contractor shall stockpile all excavated soils in accordance with these specifications pending off-site transport and disposal.

A.1.2.3.11 The RA Contractor shall record the volume of material excavated and report this volume to the Army as part of the weekly reports required in these specifications.

A.1.2.3.12 The RA Contractor shall prepare a drawing that documents the extent of the excavations.

A.1.2.4 Backfilling. The RA Contractor shall provide all labor, material and equipment needed to backfill the complete excavation. Additional details pertinent to the completion of the backfill operations are provided below.

A.1.2.4.1 Backfilling of Excavated Soils. Following receipt of any required confirmation sampling results, the Contractor shall perform a QC review of the data to determine its acceptability for the purposes required. The Contractor shall summarize all raw data, including comparisons to project criteria, and provide the data, data summary and Contractor backfill recommendation to the Government for a QA review. The Contractor shall be responsible for recommending whether soils meet all backfill requirements according to this contract. Upon receipt of data and recommendations from the Contractor, the Government shall have fourteen days to review the data and recommendations and to approve to backfill.

A.1.2.4.2 Backfilling Using Off-Site Source Soils.

A.1.2.4.2.1 The RA Contractor shall backfill excavation with certified, clean backfill as required to make up for volume losses during the excavation. The backfill shall come from an off-site facility. The RA Contractor shall provide documentation that certifies that the material used as backfill is clean and free of undesirable substances including debris, rubble, wood, chemicals, etc. The documentation shall include laboratory testing results of soil samples collected from the borrow pit and a description of the location of the borrow pit.

A.1.2.4.2.2 Testing results of the soil samples from each borrow pit must be submitted and approval granted prior to the use of any material as backfill. At least one sample shall be collected from each borrow pit and analyzed for the following parameters:

- TAL Metals

- TCL Organic compounds (volatile and semi-volatile organic compounds)
- PCB/Pesticides
- Radiological contaminants

Analytical results shall be compared to the TAGM-derived cleanup levels to determine whether the backfill is clean, and suitable for use, as backfill.

A.1.2.4.2.3 The RA Contractor shall visually inspect each load of backfill to assure that the material is similar to the material that was sampled in the borrow pit and tested.

A.1.2.4.2.4 Satisfactory borrow materials for use as backfill shall be selected from materials designated as GW-Gravel, well graded; GM -Gravels, mixed, non plastic, fines; GC -Gravels, clayey-plastic, fines; SW -Sands, well graded; SM -Sands, mixed-plastic, fines; or SC -Sands, clayey-plastic, fines in ASTM D 2487 "Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System)". The selected backfill shall be free of roots and other organic matter, trash, debris, frozen materials, and stones larger than 3 inches in any dimension. Any material classified as SM shall not have more than 25 percent by weight passing the No. 200 sieve.

A.1.2.4.2.5 The RA Contractor shall not backfill an excavation if standing water is present in the excavation. The water either shall be allowed to naturally infiltrate through the base of the excavation or shall be pumped from the excavation and treated prior to disposal.

A.1.2.4.2.6 All material backfilled into the excavation shall be compacted enough to support the construction traffic. The final grading plan shall allow for proper drainage after any estimated subsidence of the backfilled material has taken place.

A.1.2.5 Disposal.

A.1.2.5.1 Disposal Of Contaminated Soil. The RA Contractor shall provide all labor, material, and equipment necessary to dispose of the contaminated soil. All disposal operations shall be completed in accordance with prevailing environmental statutes, laws, and regulations. This section describes the disposal requirements for all soils residue, and decontamination residuals generated as part of this removal action.

A.1.2.5.1.1 SEDA and the Army shall be identified as the Generator of all project-derived wastes (i.e., excavated soil, wastewater, PPE and miscellaneous debris -e.g., tarps and plastic sheeting). The RA Contractor shall be identified as the Generator of any waste resulting due to the release of a hazardous material from his equipment or resulting from improper use of chemical materials at the site.

A.1.2.5.1.2 The RA Contractor shall comply with all applicable federal, state, and local regulations. At a minimum, the RA Contractor shall identify and comply with all hazardous and solid waste, and transportation requirements.

A.1.2.5.1.3 The RA Contractor shall be responsible for determining whether the waste residuals generated from the excavation processes are hazardous wastes. Wastes include any excavated soil, waste oils or lubricants, hydraulic fluids, coolants, plastic sheeting, used personnel protection equipment and other miscellaneous debris.

A.1.2.5.1.4 The RA Contractor shall specify analytical determinations that shall be performed to assess the nature of the contamination contained in all excavated soils and other wastes generated during the identified removal actions.

A.1.2.5.1.5 The RA Contractor shall collect, secure analytical services and obtain results from a state certified laboratory identifying the contents of all generated waste streams resulting from the removal action. The RA Contractor shall provide the generated data to the Army and to the proposed disposal facility for review.

A.1.2.5.1.6 The RA Contractor shall obtain approval from the Army of all off-site disposal facilities that are selected to receive wastes from SEDA.

A.1.2.5.1.7 All waste shall be disposed off-site at a permitted waste treatment storage and disposal facility.

A.1.2.5.1.8 The RA Contractor shall transport all generated waste materials from the removal actions from the site of the excavation and on-site stockpiles to the selected disposal site. All waste transportation shall be completed following procedures that are necessary to document the transfer of the waste from SEDA, over public roads, to the approved disposal site.

A.1.2.5.1.9 At a minimum, the RA Contractor shall document the quantity and type of waste materials moved from SEDA each day to an approved disposal site. At a minimum, collected records shall include a listing of all quantities and types of wastes transported. If necessary, bills of lading and hazardous waste manifests shall be prepared and entered into the project files to document the transportation to and disposal of materials at off-site licensed and approved landfills.

A.1.2.5.2 Treatment Of Water.

A.1.2.5.2.1 The RA Contractor shall store all wastewater in portable tanks appropriate for managing wastewater. The RA Contractor shall ensure that the tanks used have been constructed in accordance with all applicable codes and standards. The RA Contractor shall visually inspect all tanks for leaks and shall replace all leaking tanks.

A.1.2.5.2.2 The RA Contractor shall treat all wastewater on site and shall discharge the treated water in accordance with the approved discharge permit.

A.1.2.5.2.3 Following treatment of wastewater, the RA Contractor shall discharge all treated waters from this removal action including groundwater to a nearby drainage ditch. The RA Contractor shall include in the site plans all specific testing requirements for this discharge permit, and shall be responsible for meeting these testing requirements.

A.1.2.6 Drainage Control.

A.1.2.6.1 Run on Control. The RA Contractor shall implement and maintain, for the duration of the removal action, run on control measures to prevent non-excavation related and non-contaminated surface water from entering the work areas of the site. These measures shall consist of berms and ditches, as are necessary, that redirect the flow of surface water around the excavation site to the historic surface water discharge points.

A.1.2.6.2 Runoff Control. The RA Contractor shall implement and maintain, for the duration of the removal action, measures to prevent surface water from leaving the area of the excavation sites or stockpiles. These measures shall include berms or ditches that capture surface water in the work area for subsequent testing and disposal. The RA Contractor shall construct berms around all staging areas to prevent runoff from the stockpiled materials. Any collected runoff from the staging areas shall be collected and disposed of in accordance with the requirements of these specifications.

A.1.2.6.3 Excavation Drainage. The RA Contractor shall provide pumps, hoses, and any other equipment necessary to remove accumulated water from the open excavation. The RA Contractor shall be required to remove water from the excavation when necessary to continue excavation activities, or if a safety threat exists. The water from the excavation shall be collected and treated in accordance with the requirements of these specifications.

A.1.2.7 Erosion/Dust Control

A.1.2.7.1 Erosion Control. The RA Contractor shall provide the materials and labor required to control erosion of soils originating from the site. These measures may include limiting the exposure area, placement of hay bales and silt fences or berms.

A.1.2.7.2 Dust Control. The RA Contractor shall take necessary measures, in addition to those required by federal, state, and local regulations, to eliminate or minimize the migration of dust off site due to site activities. At a minimum, the RA Contractor shall follow the requirements of the NYSDEC TAGM HWR-89-4031, "Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites," October, 27, 1989 (or most recent version) and the monitoring requirements in these specifications.

A.1.2.8 Air Monitoring And Action Levels

A.1.2.8.1 General. The RA Contractor shall monitor the emissions from the excavations and soil staging areas to assure compliance with all federal, state, and local regulations. Monitoring shall be conducted in accordance with the NYSDEC TAGM, "Fugitive Dust Suppression and Particulate Monitoring at Inactive Hazardous Waste Sites," October 27, 1989 (or most recent version), and with the New York State Department of Health "Community Air Monitoring Plan."

A.1.2.8.2 Calibration. The RA Contractor shall calibrate all air monitoring equipment weekly in accordance with the manufacturer's instructions, and shall maintain records of all calibrations. These records shall be made available to the Army's representative or to the regulators upon request.

A.1.2.9 Confirmatory Sampling And Analysis.

A.1.2.9.1 General. Confirmatory sampling shall be performed by the RA Contractor to verify the successful removal of soil, wastewaters and sediment containing contaminants of concern. The RA Contractor shall be responsible for confirmatory sampling and analysis in the excavations. Requirements are as presented in Appendix 3 of this SOW.

A.1.2.10 Demobilization And Site Restoration.

A.1.2.10.1 Demobilization. Following completion and acceptance of the work by the Contracting Officer, the RA Contractors shall provide all Contractor and subcontractor labor and materials required to decontaminate, dismantle, package, and transport from the site all Contractor or subcontractor equipment, materials, and personnel. Demobilization shall not be complete until site restoration is complete.

A.1.2.10.2 Removal. At the completion of the removal actions, the RA Contractor shall remove all temporary facilities, utility services, and debris, unless otherwise directed by the Army's representative. The RA Contractor shall restore the area in accordance with these specifications.

A.1.2.10.3 Site Restoration

A.1.2.10.3.1 General. The RA Contractor shall restore the site to its original condition except as described in these specifications or as directed by the Army. The RA Contractor shall grade the excavation sites to approximate the original site conditions. As necessary, the RA Contractor shall bring in documented clean fill to make up for any volume losses. The RA Contractor shall also grade the sites to minimize erosion during the revegetation period.

A.1.2.10.3.2 Revegetation. The RA Contractor shall revegetate the sites using grass seed upon completion of the backfill operations and demobilization. The RA Contractor shall revegetate the backfilled excavations and all work areas in which site work has killed off the vegetation.

A.1.3 Documentation/Recordkeeping

A.1.3.1 Daily Logs. The RA Contractor shall maintain daily logs that include the quantities of the soil excavated and treated the previous day and copies of all analytical data received the previous day. The daily logs shall also include any air monitoring results obtained the previous day and the volume of water treated the previous day.

A.1.3.2 Weekly Reports. The RA and Asbestos Contractor shall submit weekly reports each Monday morning to the Contracting Officer or his representative. The weekly reports shall summarize the daily logs from the previous week, and address administrative issues. Topics which shall be included in the weekly report are:

- A summary of the work completed.
- A discussion of the work planned for the upcoming week period.
- A review of problems that arose during the previous week and the resolution to each item.
- Documentation of health and safety meetings
- A review of health and safety issues
- Site visitor logs

A.1.4 Performance Schedule. The RA Contractor shall complete each of the project tasks within the time frame presented in the Contract Data Requirements List.

A.1.5 Deliverable Data

A.1.5.1 The RA Contractor shall prepare and submit a CDAP in accordance with ER 1110-1-263 and DD Forms 1423 and 1664-1.

A.1.5.2 The RA Contractor shall prepare and submit a written certification of the HSP in accordance with DD Forms 1423 and 1664-1.

A.1.5.3 The RA Contractor shall prepare and submit an SSHP in accordance with DD Forms 1423 and 1664-1.

A.1.5.4 The RA Contractor shall prepare and submit a Work Plan in accordance with DD Forms 1423 and 1664-1.

A.1.5.5 The RA Contractor shall prepare and submit weekly progress reports in accordance with DD Forms 1423 and 1664-1.

A.1.5.6 The RA Contractor shall prepare and submit a Final Report at the conclusion of the treatment period in accordance with DD Forms 1423 and 1664-1.

A.1.5.7 The RA Contractor shall submit all deliverable data to the Contracting Officer or his representatives. The Contracting Officer or his representatives will review the submissions to determine whether they meet the minimum contract requirements and will accept or reject them accordingly. The RA Contractor shall correct the deficiencies of the rejected deliverables and resubmit them within 30 days of rejection. The Contracting Officer's acceptance of any submittal does not constitute or imply approval or endorsement, and in no way relieves the RA Contractor of his responsibility to meet all the requirements of this document.

APPENDIX 2

SITE MAPS

(AVAILABLE UPON REQUEST)

APPENDIX 3

CONFIRMATION SAMPLING REQUIREMENTS

Confirmatory Sampling
If Required based on Debris found

1. Introduction
Confirmatory soil sampling will be conducted at each site where excavations are performed. The goal of the confirmatory sampling is to verify that the identified contamination has been removed, and that concentrations of contaminants remaining at the subject site comply with the cleanup objectives. If the results of the confirmatory analysis verify that the cleanup objectives have been achieved, no further excavation will be conducted at the subject site. If the confirmatory results show that the Army's cleanup objectives have not been achieved, further excavation may be conducted until such verification is provided.

2. Equipment and Supplies
The following equipment and supplies will be required to complete the confirmatory sampling.
Field Book and Project Plans
Sample Labels
Shipping Labels
Sample Records
Shipping Forms
Chain-of-Custody Forms
Camera
Photo-ionization Detector
Personal Protective Equipment in accordance with the Health and Safety Plan
Marker stakes, flagging and paint
Tape Measures
Decontamination Supplies
Inert (e.g., stainless steel or Teflon®) sampling equipment
Hand Auger
Mixing Bowls
Pre-cleaned Sample Bottles
Plastic Sheeting
Shipping Tape
Ice Chests and Ice (for sample transport)

3. Number, Frequency and Location of Confirmatory Sampling
In general, confirmational soil samples will be collected from the base and sidewalls of each excavation. Sidewall samples will not be collected where the depth of the excavation measures 12 inches or less. In situations where the sidewalls of an excavation are 12 inches or less in depth, confirmational samples will be collected outside the perimeter of the excavation.

At least one discrete sample will be collected from each face of an open excavation that is 12 inches in depth or greater. Thus, a minimum of five confirmational samples (i.e., one base, and four sidewall samples) will be collected at each excavation. Additional confirmational samples will be collected from the base of each excavation at a rate of at least one per every 900 square feet, or fraction thereof, of surface area. Furthermore, additional sidewall samples will be collected for each additional 30-foot length, or fraction thereof, of excavation opened on any sidewall face.

For excavations where the depth of the excavation is less than or equal to 12 inches in depth, confirmational samples will be collected from the perimeter of the excavation at a rate of no less than one sample per every 30 linear feet of length on each edge of the excavation. A minimum of one sample will be collected along each edge of the excavation. Additionally, at least one sample will be collected from the base of the excavation, and additional samples will be collected from the base of the excavation at a rate of at least one per every additional 900 square feet or less of surface area.

Locations of confirmational sampling will be biased towards areas that are most likely to be contaminated. Visual and olfactory sensing and use of portable field monitoring devices (e.g., photo-ionization detectors) should be used, within the bounds of the site-specific health and safety plan and good operating procedures, to assist in the selection of additional confirmational sampling locations.

Additional confirmational samples will be collected and analyzed, as follows:

- ***5 samples shall be taken from areas surrounding each site from areas that are considered not to have been impacted by the release. This will be part of an effort to establish background and will be used for comparison to analytical results from other, more site-specific, confirmation samples.***
- ***all existing monitoring wells from each site shall be re-developed, sampled and analyzed to re-verify that no impacts on groundwater quality have resulted.***
- as needed, based on results of field screening and observations, or based on professional judgment. Samples may be collected at a rate of one sample per 625 square feet if particularly high contamination concentrations are noted during excavation or initial confirmatory sampling and analysis.

4.0 Sampling Method

Once the excavation is complete, a drawing of the completed excavation will be prepared and necessary measurements shall be recorded in the field notes. Specific measurements will be collected including the length, width, and depth (if subsurface excavation) of the excavation. The depth of the excavation will be reported at each corner, and at intermediate locations that are no further than 100 feet apart. These measurements will be used to document that sufficient samples have been collected from the excavation to reasonably assess whether residual contamination remains in the area of the excavation.

Once the drawing of the excavation is prepared, all proposed sampling locations will be marked and labeled and information describing the location of each proposed sampling location will be transcribed into the field notes and onto site maps. Each sampling location must be uniquely identified with a sample location.

Confirmational samples will be collected from a depth of not less than one-inch below the excavation's surface and not more than six inches below the excavation's surface. The one-inch minimum is recommended to ensure that soils exposed directly to the atmosphere, which could result in the off-gassing of volatile organic or inorganic (e.g., sulfide or cyanide) compounds and a decreased level of volatile content over time, are not collected and used for the volatile compound analyses. The depth from which confirmational samples are obtained will be recorded in the field notes at the time of collection.

At the time of their collection, confirmational soil samples will be visually described for:

- soil type,
- color,
- moisture content,
- texture,
- grain size and shape,
- consistency,
- visible evidence of staining or discoloration, and
- any other observations (e.g., odors).

All data collected at the time of sample collection will be transcribed into the field records. The identity of the sampler, the date and time of sample collection, the location of the sample collection (i.e., location id), the identity of the sample (i.e., sample number), a description of the sampling method (e.g., auger, trowel, spade, homogenized, etc.) used, the number of sample containers collected, and the intended analysis that will be completed will be recorded.

All sampling will be completed using decontaminated, inert (e.g., stainless steel, Teflon®, etc.) sampling equipment. Selected sampling equipment may be used for all collection activities conducted at one location (e.g., the sample and its duplicate for all required analyses) during one contiguous time period; however, once the equipment has been used at one location, it can not be used at another location until it has been thoroughly decontaminated per prescribed procedures.

Samples collected for volatile compound analyses (e.g., volatile organic compounds or cyanide) will be collected first and will be transferred directly from the ground to the appropriate sample container (e.g., EnCore™). Samples for volatile compound analyses will not be homogenized. Samples collected for non-volatile analyses (e.g., semivolatile organic compounds, pesticides, metals, nitrate, TOC, TPH) should be collected and transferred to an inert mixing bowl and homogenized prior to being placed into their final sample bottles.

5.0 Sampling Equipment Decontamination. The RA Contractor shall use disposable sampling equipment wherever possible to minimize decontamination requirements. When reusable equipment is used, the RA Contractor shall decontaminate all equipment prior to use in sampling. The decontamination procedure shall consist of successive washes in the following order:

- Potable water rinse
- Wash with laboratory grade detergent (Alconox or equivalent)
- Distilled water rinse
- Methanol rinse
- Hexane rinse
- Distilled water rinse

If samples are to be analyzed for metals, a nitric acid rinse and an additional distilled water rinse shall be added between steps 3 and 4. All decontamination wastes shall be disposed of off-site as hazardous waste.

6.0 Sample Volumes. Containers. and Preservation. The RA Contractor shall ensure that all sample containers, preservation, packaging, and holding times are in accordance with EPA Region 2 and NYSDEC protocols. All samples collected shall be properly logged, labeled, packaged, and stored in an iced cooler immediately after collection and until arrival at the laboratory. All samples shall be accompanied by a completed chain-of-custody form that can be used to document sample custody.

7.0 Laboratory Analyses. All soil samples shall be analyzed using NYSDEC Analytical Services Protocols (ASP) and EPA SW-846 Methods. The RA Contractor shall ensure that the laboratory is capable of providing reporting limits below the soil cleanup levels so that reported non-detect values may be compared to the cleanup levels. The RA Contractor shall ensure that the selected laboratory has been approved by NYSDEC and the Corps of Engineers, Missouri River Division.

APPENDIX 4

TEST PIT LOGS

(AVAILABLE UPON REQUEST)

Attachment 1

Quality Assurance Surveillance Plan NON-TIME CRITICAL REMOVAL ACTION AT THE RADIOLOGICAL SITES (SEAD-12) SENECA ARMY DEPOT ACTIVITY ROMULUS, NEW YORK				
TASK	**METHOD OF SURVEILLANCE**	**PERFORMANCE OBJECTIVES**	**MAXIMUM ALLOWABLE DEGREE OF DEVIATION FROM RQMT (AQL)**	**FREQUENCY INSPECTED**
1 - Preparation of Work Plan	100% Inspection	Prepare Work Plan in accordance with this PWS and the requirements of EPA, NYSDEC, and SEDA.	Zero Defects	One time, or as needed
2 – Non-Time Critical Removal Action at the Radiological Site (SEAD-12)	Periodic Inspection	Perform removal action in accordance with this PWS and the approved Work Plan, Construction QC and Government QA, Sampling and Analysis Plan, Site Safety Plan and any other approved Plans and Documentation for the Seneca Program.	Zero Defects	One time, or as needed
3 - Weekly Reports	100% Inspection	Prepare Weekly Reports in accordance with this PWS and the requirements of EPA, NYSDEC, and SEDA.	Zero Defects	One time, or as needed

Quality Assurance Surveillance Plan NON-TIME CRITICAL REMOVAL ACTION AT THE RADIOLOGICAL SITES (SEAD-12) SENECA ARMY DEPOT ACTIVITY ROMULUS, NEW YORK				
TASK	**METHOD OF SURVEILLANCE**	**PERFORMANCE OBJECTIVES**	**MAXIMUM ALLOWABLE DEGREE OF DEVIATION FROM RQMT (AQL)**	**FREQUENCY INSPECTED**
4 - Removal Completion Report	100% Inspection	Prepare Weekly Reports in accordance with this PWS and the requirements of EPA, NYSDEC, and SEDA.	Zero Defects	One time, or as needed
5 - Project Management	100% Inspection	The contractor shall meet the project management requirements as specified in the contract.	Zero Defects	One time, or as needed

Adams, Jeff

From: Adams, Jeff
Sent: Monday, January 05, 2009 7:47 AM
To: Smith, Michelle
Subject: Notes from Negotiations with the Army, Proposed New Task Order 3, W912DY-08-D-0003, SEAD 12 Removal Action

For your files and comment.

On Monday, December 29, 2008, representatives of the US Army, Corps of Engineers, Huntsville Center, Seneca Army Depot Activity, and Parsons met via teleconference to discuss and negotiate Parsons' proposal submitted for the Non-Time Critical Removal Action at Radiological Sites (SEAD 12) at the Seneca Army Depot Activity in Seneca County, New York. Participating in the discussions for the US Army, Huntsville Center were Ms. Pamela Shirley (Contract Specialist), Mr. John Nohrstedt (Huntsville Project Manager), Mr. Kevin Healy (Huntsville, Technical Specialist); Mr. Stephen Absolom, the Seneca's Base Environmental Coordinator and the ultimate client participated on behalf of Seneca, and Todd Heino and Jeff Adams participated on behalf of Parsons.

The Statement of Work for the proposed Army project identified 5 main tasks and several subtasks that were required. These included components for which firm-fixed price (FFP) responses were requested, and components for which quotations on a cost-plus-fixed-fee basis were requested. The individual task and preferred response methods are listed below.. :

Task 1 Preparation of Work Plan (FFP)
Task 2 Non-Time Critical Removal Action (CPFF)
- Task 2.1 Excavation (CPFF)
- Task 2.2 Disposal of Excavated Material (CPFF)
- Task 2.3 restoration of the Site (CPFF)

Task 3 Weekly Reports (FFP)
Task 4 Removal Completion Report (FFP)
Task 5 Project Management (FFP)

The discussions began with Todd Heino indicating that the Army's basis for the proposal had been altered by the EPA's recent communication to the Army which indicated that the Army's position that the work was not subject to review or approval under the CERCLA process was incorrect. It is the EPA's decision that the removal action is subject to the CERCLA process, and as such all components of the work must be properly reviewed and approved by concerned parties in accordance with the requirements of CERCLA.

Given this determination by the EPA, Todd indicated that he was concerned that additional time and effort would now be required for the preparation, submittal and approval of work plans and final reports, and that the entire process would be extended in response to the higher degree of regulatory involvement. The Army agreed with Parsons concerns and indicated that given the EPA's recent position, it was now their determination that the project that all portions of the project should now be conducted on a CPFF basis.

The Army then indicated that its next concern with Parsons' proposal was the proposed cost of the removal action. When questioned further by Todd Heino, the Army indicated that its difference was based more on the quantities than the unit rates that had been applied by Parsons during the development of their bid and proposal. The Army indicated that it was unwilling to commit to the quantities that were proposed by Parsons. The biggest discrepancy between Parsons' bid and the Army's estimate dealt with the amount of material that would be excavated and then transported and disposed off-site. Parsons' assumption was that approximately 8700 cubic yards of Non-Hazardous material would be excavated and disposed of as cover material in addition to 2,000 tons of C+D debris, while the Army's assumption was that 4000 tons of material would be excavated and disposed. Additionally, Parsons had assumed that approximately 8700 cubic yards of fill would need to be imported back to the site.

The Army decided that the quantities that should be assumed for the recosting were as follows: 5800 cubic yards were to be transported for off-site disposal. 3,000 yards of fill were to be imported and used as fill. The excavation sites would be graded to drain after the completion of the work.

Additionally, since the work was no longer going to be bid as a FFP job, the rate used for the fee should be reduced accordingly for the SOW Tasks affected.

Jeffrey W. Adams
PARSONS
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January 23, 2009

Ms. Sharon H. Butler
U.S. Army Engineering and Support Center
ATTN: CEHNC-CT-E
4820 University Square
Huntsville, Alabama 35816-1822

Subject: Revised Proposal for Proposed New Task Order, Contract W912DY-08-D-0003. Non-Time Critical Removal Action at Radiological Sites (SEAD-12) and Performance of RCRA Closure at Building 803 (SEAD-72), Seneca Army Depot Activity, Romulus, New York.

Dear Ms. Butler:

Parsons Infrastructure & Technology Group Inc. (Parsons) is pleased to present this cost proposal and supporting material for a proposed new task order for the Non-Time Critical Removal Action at Radiological Sites (SEAD-12) and Performance of RCRA Closure at Building 803 (SEAD-72), Seneca Army Depot Activity, Romulus, NY. A narrative description of our scope of work and cost assumptions is attached, as is a detailed cost estimate for the various component parts of our proposed response approach.

The Army issued the original SEAD-12 Request for Proposal on September 24, 2008, which included a Statement of Work dated 19 September 2008. Based on the Army's request, Parsons issued a proposal response to the Army on October 24, 2008. The Army and Parsons held discussion on January 5, 2009 relevant to Parsons' initial proposal and during these conversations that Army requested that Parsons change the basis of its submittal. Furthermore, the Army modified some of the quantities that it wanted used as the basis of the estimate. Specifically, the Army requested that Parsons prepare and resubmit its proposal on a cost-plus-fixed-fee (CPFF) basis only, instead of a mixed CPFF and firm-fixed price (FFP) basis as was initially requested. Additionally, the Army established that 5,800 cubic yards of soil and debris should be used as the quantity of material that would be disposed at off-site facilities, that 3,000 cubic yards of clean fill would be brought onto the site and used to backfill the excavations opened, and that the excavations would be graded to promote drainage into nearby drainage swales. In addition, the Army indicated that the proposal should include a response to the requested RCRA Closure of Building 803, which it had included in its revised Statement of Work, dated 04 October, 2008, that was issued on October 31, 2008 via email.

The attached proposal has been revised by Parsons in accordance with the Army's revised statement of work, dated 04 October 2008, and the discussions held on January 5, 2009. Parsons response is presented

on a CPFF basis, and includes costs for the performance of the RCRA Closure of Building 803 (SEAD-72) as an optional task. Additionally, Parsons has adjusted its quantities to conform to those specified by the Army.

Parsons estimates that the total costs for the performance of the Non-Time Critical Removal Action at SEAD-12, the Radiological Sites is $1,083,396 inclusive of costs ($1,042,964), Facilities Capital Cost of Money (FCCM, $509), and fee ($39,923). As an optional task, Parsons estimates that the cost to perform the RCRA Closure of Building 803 (SEAD-72) is $57,857, inclusive of costs ($55,104), FCCM ($56), and fee ($2,697). Parsons has assumed a period of performance for this work from February 1, 2009 to January 31, 2010. Provisions of Parsons' proposal and quoted costs for this work are valid for a period of sixty (60) days from the submittal of our proposal.

In accordance with our W912DY-08-D-0003 proposal response, the direct and indirect rates that Parsons used to price our response to this specific task order proposal are based on the direct and indirect rates approved at the time the task order proposal has been prepared for submittal to the Army. Our direct and indirect rates used are based on the 12 month performance period starting on February 1, 2009 and continuing until January 31, 2010. Parsons' DCMA-approved forward pricing direct labor and indirect rates are based on a blend of the appropriate period's calendar tax year rates that are derived based on the number of proportionate days worked in each year. The Facilities Capital Cost of Money for the home office is included in the overhead rate on direct labor, as is permitted under the base contract; however, fee has not been applied to the FCCM portion of the markup on the direct labor.

Please contact Todd Heino at (617) 449-1405 or Jeff Adams (617) 449-1570, if you have any questions, or require additional information.

Sincerely,

Kenneth J. Stockwell
Vice President

CONTRACT PRICING PROPOSAL COVER SHEET

1. SOLICITATION, CONTRACT, AND/OR MODIFICATION NUMBER: **W912DY-08-D-0003** TASK ORDER NO. 3

2. NAME AND ADDRESS OF OFFEROR

Parsons Infrastructure and Technology Group, Inc.
100 W . Walnut Street
Pasadena, CA 91124

3. OFFEROR'S POINT OF CONTACT

NAME: Todd Heino
TITLE: Program Manager
TELEPHONE NUMBER: (617) 449-1405
E-MAIL ADDRESS: todd.heino@parsons.com

4. NAME OF CONTRACT ADMINISTRATION OFFICE

DEFENSE CONTRACT AUDIT AGENCY	DEFENSE CONTRACT MANAGEMENT ORGANIZATION
PATRICIA ARTUSI, BRANCH MANAGER	GVSC/HENRY FIELD
1000 EAST LAKES DRIVE, SUITE 400	18901 S. WILMINGTON AVENUE
WEST COVINA, CALIFORNIA 91790-2900	CARSON, CALIFORNIA 90746
(626) 918-5922	(301) 900-6644

5. TYPE OF CONTRACT ACTION

a. NEW CONTRACT ☐
b. CHANGE ORDER ☐
c. PRICE REVISION / REDETERMINATION ☐
d. LETTER CONTRACT ☐
e. UNPRICED ORDER ☐
f. OTHERS (*Specify*) ☒
New Task Order Non-Time Critical Removal Action at Radiological Sites (SEAD-12) , Seneca Army Depot Activity

		A. COST	B. PROFIT / FEE	C. TOTAL
6a.	PROPOSED BASE COST; PROFIT OR FEE; AND TOTAL (A + B = C) ReEMOVAL ACTION AT SEAD-12	$1,042,964	$40,432	1,083,396
6b.	PROPOSED OPTIONAL COST; PROFIT OR FEE; AND TOTAL (A + B = C) RCRA CLOSURE OF BUILDING 803 (SEAD-72)	$55,104	$2,753	57,857

7. REQUIRE USE OF GOVERNMENT PROPERTY IN THE PERFORMANCE OF CONTRACT? YES ☐ NO ☒ (IF YES EXPLAIN)

8. PROVIDE THE FOLLOWING DETAILS

		YES	NO	REMARKS
a.	ORGANIZATION SUBJECT TO CAS?	☒	☐	
b.	ORGANIZATION HAS SUBMITTED CASB DISCLOSURE STATEMENT?	☒	☐	
c.	OUR CASB DISCLOSURE STATEMENT DETERMINED TO BE ADEQUATE?	☒	☐	
d.	NOTIFIED THAT WE ARE OR MAY BE IN NONCOMPLIANCE WITH DISCLOSURE STATEMENT OR CAS?	☐	☒	(IF YES EXPLAIN)
e.	IS THIS PROPOSAL INCONSISTENT WITH OUR DISCLOSED PRACTICE OR APPLICABLE CAS?	☐	☒	(IF YES EXPLAIN)
f.	IS THIS PROPOSAL CONSISTENT WITH OUR ESTABLISHED ESTIMATING AND ACCOUNTING PRINCIPLES AND PROCEDURES AND FAR PART 31, COST PRINCIPLES?	☒	☐	(IF NO EXPLAIN)

9. THIS PROPOSAL REFLECTS OUR ESTIMATES AND/OR ACTUAL COSTS AS OF THIS DATE AND CONFORMS WITH THE INSTRUCTIONS IN FAR 15,403-5(B)(1) AND TABLE 15-2. BY SUBMITTING THIS PROPOSAL, WE GRANT THE CONTRACTING OFFICER AND AUTHORIZED REPRESENTATIVE(S) THE RIGHT TO EXAMINE, AT ANY TIME BEFORE AWARD, THOSE RECORDS, WHICH INCLUDE BOOKS, DOCUMENTS, ACCOUNTING PROCEDURES AND PRACTICES, AND OTHER DATA, REGARDLESS OF TYPE AND FORM OR WHETHER SUCH SUPPORING INFORMATION SPECIFICALLY REFERENCED OR INCLUDED IN THE PROPOSAL AS BASIS FOR PRICING. THAT WILL PERMIT AN ADEQUATE EVALUATION OF THE PROPOSED PRICE.

10. DATE OF SUBMISSION	11a. NAME OF OFFEROR (Type)	11b. TITLE OF OFFEROR (Type)	11c. SIGNATURE
20-Jan-09	Todd Heino	Program Manager	

BASIS OF ESTIMATE

COST AND PRICING DATA FOR THE COST PROPOSAL FOR PROPOSED NEW TASK ORDER CONTRACT NO. W912DY-08-D-0003 NON-TIME CRITICAL REMOVAL ACTION AT RADIOLOGICAL SITES (SEAD-12) AT SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK

1.0 LABOR AND OVERHEAD RATES

Labor classifications and rates are developed using company-wide average labor category rates for the labor categories anticipated to perform the work for the tax calendar year that the work is anticipated to be conducted. The direct labor rates are prepared and applied consistent with our Estimating System Manual. The indirect rates used are in accordance with the Defense Contract Management Agency's (DCMA's) letter dated December 4, 2008.

In its request for proposal for this effort, the Army has defined a general scope of work; Parsons has assumed a period of performance that begins on February 1, 2009 and results in an anticipated 12-month period of performance, ending January 31, 2010. Parsons' DCMA-approved forward pricing direct labor and indirect rates are based on a blend of the 2009 and 2010 calendar tax year rates that is proportional to the days worked in each year (refer to **Labor Rate Buildup Tables**). The Facility Capital Cost of Money (FCCM) for the home office is included in the overhead rate on direct labor, as is permitted under the base contract; however, fee has not been applied to the FCCM portion of the markup on the direct labor.

2.0 JUDGMENTAL FACTORS

The number of labor hours and quantities of other items required to perform each task are estimated using engineering judgment and analysis of the work to be performed. The analysis considered the difficulty and complexity of each work element and assumed efficient use of resources to accomplish the tasks. Where possible, the records of efforts required to perform similar types of work were used to estimate the labor hour requirements. The mix of labor categories to accomplish tasks was designed to minimize the overall cost.

Quotations received from the earthwork and radiological consultants are provided as backup to this overall proposal package. This subcontractor information provides valuable information regarding unit rates that might be incurred due to currently unforeseeable future circumstance that requires additional excavation, handling, screening, or disposal or sampling and analysis be performed. As developed, Parsons' cost quotation for this work is based on levels of effort currently identified and documented in this proposal.

2.1 Scope of Work Assumptions and Basis of Estimate

Parsons proposed response to the Army's scope of work, dated 04 October 2008 as issued by email on 31 October 08, and subsequently modified by discussions between the Army and Parsons on 05 January 09, for the required work at SEAD-12, the Radiological Sites is based on activities that we

understand to be consistent with the Army's requirements. During the 05 January 09 discussions, the Army requested that all work be performed on a cost plus fixed fee basis, and altered quantities of materials that should be used as the basis of the estimate. Specifically, the Army specified that 5,800 cubic yards of material should be used as the basis of materials that would be transported off-site for disposal, and that 3,000 cubic yards of fill would be transported on-site and used as backfill at the excavations.

The Program Manager and Technical Director for this project will be Todd Heino. Mr. Heino is very familiar with the Seneca Army Depot Activity having directed all of Parsons' activities at Seneca under several different contract vehicles held with the Army and AFCEE since 2002. The Project or Task Manager for this task will be Mr. Jeff Adams who has overseen many projects at Seneca with similar scopes of work over this same period of time.

The base tasks (Tasks 1 through 5) for this work are associated with the removal action, which will be completed between February 1, 2009and January 31, 2010. In addition, Parsons proposed response to the performance of an Optional Task 1 focused on the RCRA Closure of Building 803 is also presented and described.

Task 1– Preparation of Work Plan

Parsons will prepare and submit a Work Plan (WP) for the removal actions to be completed at SEAD-12. This activity will be performed on a Cost Plus Fixed Fee (CPFF) basis, in accordance with Army's modified Request for Proposal (RFP). The WP will provide the rationale for conducting the removal action at radiological sites and the overall objectives of the final remedy proposed for SEAD-12. The removal action WP will include site information, objectives of the proposed remedy, scope of work, technical project approach and work sequence and schedule.

A Construction Quality Control Plan, Quality Assurance Project Plan, Sampling and Analysis Plan, Site Safety Plan and an Air Monitoring plan will be prepared for this work as sections of the WP. The required plans will be based on the SEAD-63 work plan provided to us by the Army and will incorporate, as appropriate, portions of other relevant documents (e.g., Generic Site-Wide Health and Safety Plan, Generic Site-Wide Sampling and Analysis Plan, etc) prepared by Parsons under prior contract vehicles for other construction activities that had been performed, or are ongoing, at the Depot. Each of these plans will be modified as needed to address specific requirements and procedures that are specific to this PWS and the required work.

As part of this work, Parsons will directly apply the radiological sampling program that was defined by Plexus and Cabrera Services for implementation at SEAD-63. Parsons will subcontract Cabrera Services to oversee and provide radiological services that are needed in support of the SEAD-12 work. Parsons has included an allowance in our cost estimate for Task 1 to review and comment on the radiological portion of the work plan to ensure that it is appropriate for the work that is required.

A pre-draft WP will be submitted to the Army electronically for review, comment, and/or approval. If comments are received, necessary revisions will be made, and the document will be re-submitted to the

Army for review and approval. Once the pre-Draft is approved by the Army, a Draft copy of the WP will be submitted to the regulators and the Army in paper and Adobe® Acrobat® (i.e., electronic) formats for review, comment, and/or approval. Comments received will be addressed, and once approved by the Army, a Draft Final WP will be issued in paper and electronic formats to all concerned parties for review, comment, and/or approval. Subsequent comments received from the Army and/or regulators will be addressed, and a Final WP will be issued in paper and electronic formats to the Army and the regulators.

Task 2– Non-Time Critical Removal Action at the Radiological Site (SEAD-12)

The Non-Time Critical Removal Action will be performed on a CPFF basis. The anticipated costs for the removal action components have been developed based on the Army's modified PWS and Parsons' proposed technical approach. The PWS anticipates that military related components have been buried in the disposal pits along with other forms of debris that are not currently known to contain hazardous wastes or radiological constituents. As such, it is expected that some of the existing fill and soil surrounding the buried military related materials and other debris can, and will, be reused as backfill for the completed, open excavations. If, however, information becomes available during the removal action that suggests or indicates that hazardous or radiological constituents have contaminated the debris or soil, steps will be implemented to segregate and safely stage the excavated materials until more definitive data is obtained, evaluated, and verified. Once this assessment is completed, the military related materials, debris, and fill/soil will be handled or disposed in the required manner (e.g., as military classified material, as C&D materials, as landfill cover, as radiological wastes, as hazardous wastes, etc.) or used as backfill in the open excavations.

Parsons proposed technical response to the Army's PWS for the performance of the NTCRA includes the following work components and activities.

- Mobilize to the site.
- Establish and document background radiation levels.
- Initiate and complete site preparation activities.
- Excavate soil and debris.
- Segregate excavated soil, miscellaneous debris and military related items.
- Backfill, grade, and seed excavations.
- Demobilize from site.

Each of these items is discussed in the following sections.

Based on the PWS, the basis of Parsons' proposal response is summarized in **Table 1** and summarized below. The anticipated field activity schedule is displayed in **Exhibit 1**.

Parsons anticipates that the excavation of 14,000 cubic yards of soil and debris will take 21 days to complete; as such the anticipated excavation rate is approximately 666 cubic yards per day. Parsons has also assumed that once the field operations begin, on-site activities including excavation, screening, segregation, disposal and final site restoration, exclusive of final seeding and re-vegetation of the excavation sites, will occur during a six to seven week period. During this time, Parsons employees, and personnel of our designated earthwork contractor (S. St. George Enterprises) and our radiological services

subcontractor (Cabrera Services) will be on-site, as allowed by the Army based on the presence or absence of classified military-related debris.

Parsons also anticipates that none of the excavated soil or debris will be contaminated with hazardous substances or constituents that require the material to be disposed as hazardous waste. It is likely that some of the soil may need to be stabilized before it is disposed off-site at a licensed landfill, but as has been the case on removal actions performed by Parsons for the Army at the Depot, this work will be completed as part of the normal work flow. Once stabilized, the soil will be disposed at a licensed Subtitle D landfill, as non-hazardous waste.

This proposal response also presumes that real-time radiological scanning will not indicate that any radiation is present in the soils, debris, or excavations at levels that are above background. As such, Parsons has not assumed that any of the soil or debris will be disposed of off-site at low level radiological disposal sites. Further, no MARSSIM Class III Final Status Survey will be required for any of the completed excavations, as post-excavation scanning will show that radiation levels are consistent with background.

Parsons' proposal response also anticipates that the screening operations will be completed in 15 days and that 6,672 cubic yards soil with debris less than 4 inches (< 4") in size will be processed. Materials load-out activities will be completed in 15 days with a total of 5,800 cubic yards being transported to off-site licensed disposal sites. Parsons has assumed that 3,800 cubic yards of the materials shipped off-site will be suitable for use as cover material at licensed solid waste landfills, while the remaining 2,000 cubic yards will be disposed as construction and demolition (C&D) debris.

Backfill operation and final fine grading, seeding and mulching services will require 10 days to complete. Based on the Army's specifications, Parsons has assumed that 3,000 cubic yards of clean backfill that meets New York State's Unrestricted Use soil cleanup objective levels will be purchased and brought onto the site for use in closing the excavation sites. The total projected construction time is 40 field days. Parsons cost estimate assumes that laborers working for the earthwork and radiological subcontractors will work 8 hours per day. Although overtime work for laborers and equipment operators are not anticipated, provisions in the base contract (W912DY-08-D-0003, see FAR clause 52.222-2, Payment of Overtime Premiums) do allow for such charges to be incurred, if justified and authorized, in advance by the Army Contracting Officer. If such need arises, Parsons will notify the Army Contracting Officer of the need for overtime allowances and identify the expected costs associated with the additional work. Contracting Officer approval will be required before the additional costs are incurred. It is expected that Parsons' QA/QC and Safety Officer will work up to 11 hours each day to complete assigned field oversight and the necessary paperwork and reporting requirements. These costs are included in our cost estimate and will be paid at the employees' approved rate.

Task 2.1– Excavation

Parsons anticipates that this task will include the following activities:

- Mobilize to the site.
- Establish and document background radiation levels.

- Initiate and complete site preparation activities, including:
  - Stake and grid designated radiological background reference area;
  - Stake and grid anticipated excavation areas;
  - Designate support, including material stockpile areas;
  - Qualify an off-site borrow source for backfill;
  - Identification and qualification of off-site disposal facilities;
  - Clearing and grubbing;
  - Identification of obstructions and utilities, both overhead and underground;
  - Control of run-on and run-off waters;
  - Erosion and sedimentation control;
  - Site controls and security;
  - Conduct background air monitoring; and
  - Health and safety.
- Excavate soil and debris
- Segregate excavated soil, miscellaneous debris and military related items.

Prior to the scheduled initiation of the excavation work, Parsons will mobilize personnel and equipment to the site that are anticipated to be needed to complete the work. As part of the mobilization effort, Parsons will schedule and conduct a kickoff meeting that will include the participation of Parsons' and subcontract personnel (i.e., the earthwork contractor and radiation personnel) as well as appropriate USACE representatives such as the SEDA BEC, the CENAN Project Manager and the USACE radiation representative. The goal of this meeting will be to advise and clarify all parties of the scope of the anticipated work, the planned schedules, and the lines of communications and authorities, and to discuss and resolve how factors that could change the scope and extent of the work in the field will be addressed by the involved personnel. As part of the site-kickoff meeting, potential health and safety issues (radiological and chemical) will be reviewed and necessary site access and egress issues will be discussed.

As part of the overall mobilization effort, Parsons has included the costs for the Certified Health Physicist to visit the site twice. It is expected that one of these visits will coincide with the project kickoff meeting and possibly the collection of the background radiological data, while the second visit may at any time during the project, including times that are not associated with the removal action field efforts. The costs for both trips have been included as part of Task 2.1 efforts to place them under the CPFF portion of the work; the costs for these trips and visit will only be billed if the services are actually incurred.

Additionally, as part of the overall site mobilization effort, the field crews will stake, grid, and survey, using a Global Positioning System (GPS), the lateral extents of each of the anticipated excavations, and the existing surface elevations present within the areas prior to the initiation of the excavation work. These data are needed, in conjunction with post excavation survey data, to determine in-place materials volumes that are excavated as a result of the field work.

A background site within the limits of SEAD-12 and in close proximity (within a 1-2 mile radius) of the historic disposal pits will also be identified and surveyed, and this site will be used to define and

document background radiological levels that data from the excavation areas will be compared against. Based on the work that was performed for SEAD-63, it is expected that this area will be approximately 50 feet by 300 feet in size. Prior to the initiation of the excavation work, the field personnel will perform and document a gamma radiation walkover survey, and will collect discrete near surface samples that will be submitted to an off-site contract laboratory for gross alpha and gross beta radiation analyses. Based in the SEAD-63 effort, it is expected that 19 soil samples will be collected and submitted for background analyses of Gross Alpha and Gross Beta levels.

The subcontractor will call Underground Facilities Protective Organization (UFPO) and work with Parsons and the Army to locate and mark utilities and other obstructions in the immediate areas of the excavation area and the supporting work/staging areas. All identified utilities within work/staging areas will either be terminated and disconnected, or if necessary, rerouted to ensure that service is not disrupted during the site remedial action operations.

The perimeter of the excavation sites and its support zone will be marked using stakes and orange security ("snow") fencing. Entry/exit ways through the security fencing will be placed as required to support needed traffic flow. Parsons currently anticipates that the support area for the SEAD-12 activity will be established close to the identified disposal pits along Service Road 1. The work support zone will be arranged to facilitate free and logical equipment movement to and from the work area, which will enhance safety, security and minimize the likelihood that contaminants, if present, will be introduced to new areas of the overall site.

The three disposal pits are located in the northeastern portion of SEAD-12 between Service Road 1 and Patrol Road and the surrounding high security perimeter fence of SEAD-12. The land between Service Road 1 and Patrol Road are currently grass covered without large trees. All of this area will be mowed as part of the site mobilization effort. The area between the disposal pits and Service Road 1 will be used for excavated materials staging pending final disposal or deposition.

A construction entrance to the work zone will be installed on the west side of the storage area off of Service Road 1. An engineered entrance that is at least 25 feet wide and consisting of a 24" culvert pipe backfilled with crushed stone over fabric will be constructed to stabilize the entrance.

An unlined overburden soil staging area will be sited to the east of the disposal pits, between the pits and Patrol Road. This material will be used for subsequent backfill in the excavation.

Temporary lined stockpile areas will be installed in the material handling area that will be located between the construction entrance and the disposal pit excavation sites. Each of the stockpile areas will be located adjacent to eastern shoulder of Service Road 1 so that eventual truck loadout activities can be completed while the over the road trucks remain on the service road. This eliminates the need to construct temporary roads into the staging area and site. If necessary the area along the shoulder of Service Road 1 where loading will take place will be stabilized with 12" of gravel placed over fabric.

A lined screening area will be set up directly east of the storage stockpiles, between the staging areas and the excavation sites. The screening area will have a mixed soil and debris lined stockpile area approximately 150' square adjacent to the screen.

Silt fences will be installed around the storage piles and along the road side ditches. Ditch checks will be installed on the down stream end of the road-side ditches.

The perimeter of each of the excavation sites will be marked with a 4' high, orange construction fence to prevent incursion of unauthorized individuals and wildlife into the pits. This fence will also separate the excavation sites from the materials staging areas that are located to the east and west of the historic disposal pits.

The debris storage area will be approximately 150' square. The soil mixed with debris (<4") storage area will be approximately 100' wide x 300' long. Both of these areas will be parallel and adjacent to the east side of Service Road #1.

Site excavations will be conducted using a hydraulic excavator and two articulated off-road trucks. Overburden soils overlying the disposal pits will initially be stripped off of each disposal pit, screened for radiological constituents and visually observed for possible debris or hazardous substance content. If no debris or hazardous substances are indicated, and if radiation levels are found to be consistent with background levels, it will be placed in the unlined staging area that is located to the east of the historic disposal pits.

If radiological scanning indicates readings in excess of background levels, the overburden will be staged in a lined area, and discrete soil samples will be collected at a frequency of 1 per every 200 cubic yards and submitted to the laboratory for gross alpha and beta analyses. Each of the 200 cubic yard piles will be uniquely identified and separated pending the review of radiological results. This soil will not be processed through the screening plant pending off-site analysis of discrete samples for gross alpha and beta and gamma spectrometric determinations.

Once the clean overburden has been stripped and separated from the excavation sites and evidence of debris is noted, all excavated soil and debris will be screened and sampled for radiological constituents, and evaluated for the presence of hazardous substances and constituents. Discrete samples for radiological analyses will be collected at a rate of 1 per every 200 cubic yards or less excavated. Radiological constituents of concern include Gross Alpha and Gross Beta, Gamma Spectroscopy, and Tritium determinations.

If evidence of debris, but not radiation is noted, the excavated material will be staged in the lined staging area that is located adjacent to the site of the screening plant pending subsequent processing and further separations. Any large debris that is associated with non-radioactive materials will be further segregated, and placed on lined staging areas near Service Road 1 for possible recycle or disposal as C&D debris.

If field observations suggest that excavated materials have been affected by a potential release of hazardous constituents other than radiological materials, these materials will be separately staged in a lined area, and discrete samples will be collected for hazardous waste characteristics, and possibly PCBs, if necessary. These materials will also be segregated from other piles, uniquely identified and not processed through the screening plant until the nature of the waste is defined.

Excavated materials staged for screening will be run through a screening plant that will separate materials into greater than and less than 4-inch (> 4" and < 4") cuts. During this process, large debris that possibly can be recycled will be further segregated. Each of these material types will be placed in appropriate areas in the lined staging areas next to Service Road 1.

All debris will be screened by Army personnel to determine if parts or components are military classified. Any military classified debris will be placed into containers and will be transported to Igloo AO101 and turned over to the Army for their final handling and processing.

After the excavation is completed and before backfilling operations commence, confirmatory field screening for radiological constituents and soil sampling, if appropriate, will be conducted to verify that the identified contamination or debris has been removed, and that concentrations of contaminants remaining comply are acceptable. Field screening will include field determination of radiation levels using field instrumentation. If evidence of residual radiation in excess of background levels is observed, discrete soil samples will be collected and submitted to the laboratory for determination of radiological constituents. Comparably, if unexpected chemical releases are observed within any of the disposal pits, confirmatory samples will also be collected and characterized for TCL and TAL hazardous constituents.

Confirmation sampling required by the Army in their RFP is included below:

- Excavation Bottoms: One sample per every 900 sq. ft., or less, of excavation bottom.
- Sidewalls (only for excavation greater than 1.0 ft deep): One sample per every 30 linear feet (lf), or less, of sidewall.
- Perimeter surface samples (excavation less than 1.0 ft in depth): One sample per every 30 lf, or less of perimeter.

Task 2.2– Disposal of Excavated Materials

Samples of the excavated soil and debris will be collected and submitted for radiological and hazardous waste characterization analysis prior to disposal. The analytical results will be submitted to the potential off-site disposal facility for approval prior to the initiation of the load out activity. Samples of soil or debris will be collected at a rate of 1 per every 200 cubic yards or less for radiological constituents, and 1 per every 700 cubic yards or less for hazardous waste constituent analyses. This sampling requirement is based on the disposal facility's requirements, based on discussions held between Parsons and potential landfill disposal sites. The disposal facility will pre-approve acceptance of the excavated soil and debris based on the review of the radiological and analytical data. The soil disposal samples will be tested for contaminant leaching using the Toxicity Characteristic Leaching Procedure (TCLP) for metals, VOCs, SVOCs, as well as total pesticides/PCBs, ignitability, corrosivity (i.e., pH), reactivity, total

solids, and the paint filter test. Radiological analyses will include Gross Alpha and Gross Beta, Gamma Spectroscopy, and Tritium. Debris samples will be tested for TCLP metals, and Gross Alpha and Gross Beta, Gamma Spectroscopy, and Tritium. The number of samples and the analyses may vary from this Work Plan depending on the requirements of the selected landfill.

Based on previous data, it is not expected that any soil will exceed the TCLP limits listed in Title 40 Code of Federal Regulations (CFR) Part 261.24. In the event that soil does exceed the TCLP limits, the soil will be stabilized on-site and then disposed as non-hazardous waste. Non-hazardous soil will be managed by the subcontractor (to be qualified and designated by Parsons) and will be transported to either the Seneca Meadows Landfill, Waterloo, New York; Ontario County Landfill, Flint, New York; or an equivalent licensed off-site facility for disposal. It is not expected that any materials will be disposed as hazardous waste.

Disposal of debris, soil and waste water will proceed as described below:

Debris

Debris that has been determined by the Army to be military classified will be segregated from the remaining debris, placed into containers, and moved to Igloo AO101. The Army will be responsible for storage, processing and disposition of these military classified materials.

Any radioactive-contaminated debris will be packaged and transported for off-site disposal as Low Level Radioactive Waste (LLRW) or Mixed Waste depending on chemical characteristics. Any radioactive sources will likely be removed from miscellaneous components and placed in 55-gallon steel drums for transport to a licensed radioactive waste landfill. Any debris with surface radiological contamination will be placed in drums, B-25 containers and/or inter-modals for off-site disposal. Transport will be directly to disposal sites or via a licensed broker who may consolidate wastes. Debris with surface radiological contamination may be sized prior to packaging to meet disposal facility requirements. No costs for disposal of radiological wastes are included in this cost proposal, as these costs will be determined once their nature and presence is confirmed.

At the USACE's request, all other excavated debris (demil'd, non-radioactive) will be transported off site for landfill disposal. Prior to transport off site, samples of all debris pending disposal at an off site will be collected at a rate of 1 per every 700 cubic yards or less and submitted for the analysis of TCLP Metals, and at a rate of 1 sample per every 200 cubic yards for determination of Gross Alpha and Gross Beta activity, Gamma Spectroscopy and Tritium. The majority, if not all, of this material will be disposed at a New York State landfill, e.g., Seneca Meadows Landfill, Waterloo, NY; Ontario County Landfill, Flint, NY, etc. as C&D debris.

Soil

At the USACE's request, all excavated soil (i.e., both soil that is below as well as that exceeding cleanup goals) and the remaining (demil'd, non-radioactive) debris will be transported off site for landfill disposal. Prior to transport off site, composite samples of all soils pending disposal at an off site will be

collected at a rate of 1 per every 700 cubic yards or less and submitted for the analysis of TCLP VOCs, TCLP SVOCs, TCLP Metals, pesticides and PCBs, as well as the paint filter test, pH (corrosivity), percent solids, flashpoint and reactivity. The majority, if not all, of this material will be disposed at a New York State landfill, e.g., Seneca Meadows Landfill, Waterloo, NY; Ontario County Landfill, Flint, NY, etc. Some or all of the soil may be beneficially reused at those landfills as daily cover material as concentrations of chemical constituents measured during past studies have been relatively low.

Any soil determined to be RCRA characteristic-hazardous waste will be disposed at a RCRA hazardous waste landfill. Any soil determined to be LLRW and Mixed Waste soil will be disposed at a LLRW/Mixed Waste landfill. Based on prior study data, Parsons does not anticipate much, if any, of the soil will be RCRA hazardous waste, LLRW or Mixed Waste; as such costs for these disposal alternatives are not included in the cost estimate developed for this work. If disposal of RCRA hazardous, LLRW, or mixed waste is required, they will be determined once the nature and quantities of such materials are known.

Waste Water

A sample of the frac tank water will be collected at the end of the project or when full, and submitted for off-site laboratory analysis. Laboratory analysis results will be used to secure approval to discharge the water to the Seneca County Sewer District No. 2 facility.

Task 2.3– Restoration of the Site

The excavation areas will be backfilled and machine compacted in one foot thick lifts to restore the excavated areas to their original site conditions. The excavation will be backfilled with overburden soils initially removed from the excavations and certified, clean backfill from off-site sources as required to make up for volume losses during excavation. The backfill from off-site sources will be clean and free of undesirable substances including debris, rubble, wood, chemicals, etc. Testing results of the soil samples from each borrow pit will be submitted prior to the use of any material as backfill. Samples from each borrow pit will be analyzed for TAL Metals, TCL VOCs, TCL SVOCs, PCBs, pesticides and radiological contaminants. Analytical results will be compared to the NYSDEC part 375 SCOs for unrestricted use to determine whether the backfill is clean, and suitable for use, as backfill.

The excavation site will be re-vegetated using grass seed upon completion of the backfill operations. All work areas in which site work disturbed vegetation will be seeded and mulched to promote re-vegetation.

Task 2 Exceptions

The Army's scope of work includes provisions for the installation of four additional monitoring wells after confirmation sampling has been completed and results analyzed. Parsons proposal does not include these additional wells based on the following:

- Groundwater at SEAD-12 does not pose significant risk to potential receptors at SEAD-12 based on its planned future use.

- The Supplemental Remedial Investigation (SRI) completed at the site demonstrated that the TCE contamination detected in one of the monitoring wells was isolated. Further, soil in the area with elevated TCE concentrations (i.e., above New York State Technical and Administrative Guidance Memorandum [TAGM] value) was excavated to the extent possible during the SRI. The SRI recommended no further action for groundwater.

Task 3 – Weekly Reports

Weekly reports will be provided documenting the progress during the fieldwork phase of the project. This activity will be performed on a CPFF basis, in accordance with the Army's request.

Weekly reports will include summary of work completed in the field, minutes of all meetings, status report on all milestones during the period, report and explanations for any milestones not met during the preceding period and an assessment of milestones scheduled for the next reporting period, permit status, personnel staffing status, community relation activity update and any sampling data available.

Task 4 – Removal Completion Report

Results and records of the removal action will be documented in a Completion Report for submittal to USACE, NYSDEC and USEPA. This activity will be performed on a CPFF basis, in accordance with the Army's revised request.

The Completion report will include:

- Description of the work performed;
- Variations from the Work Plan and associated project plans, if any;
- Quantities of segregated components and soil/fill material;
- Field scanning results and laboratory data for excavated materials, the limits of excavation, and backfill materials;
- Land survey results documenting the final limits of excavation, location of sampling points at the limit of excavation,
- Waste manifests and bills of lading/shipping documents;
- Air monitoring results;
- Other relevant data; and
- Certification by the Project Professional Engineer.

Cabrera Services will prepare a stand-alone appendix to this report that will provide the details of the radiological evaluations that were performed and completed as part of the removal action work. Cabrera's estimated costs for these services are included as a subcontractor price in this component of the project cost estimate. It is expected that a pre-Draft, Draft, Draft Final and Final version of this report will be prepared and issued.

Task 5 – Project Management

The project management task includes the costs for routine project invoicing and monthly reporting. This activity will be performed on a CPFF basis, in accordance with the Army's revised request.

The estimated Project Management budget provided for Task 5 includes estimates for costs that are associated with initially opening the job in Parsons financial reporting system, procurement costs and costs that are anticipated for contract closeout in accordance with DCAA requirements.

Optional Task 1 – RCRA Closure of Building 803

Parsons and a subcontract, S. St. George Enterprises, will initiate and complete RCRA Closure activities in accordance with the approved Final *Closure Plan for Former RCRA Unit Building 803 – Mixed Waste Storage Facility Solid Waste Management Unit – SEAD-72*. Parsons recommends that this work will be initiated immediately before to the Removal Action work described in Task 1 through 5 above, so the initial set of decontamination process confirmation samples can be characterized while the work is progressing with the removal action. In this manner, if secondary decontamination is needed, minimal remobilization costs will be incurred.

Parsons, the Army and the subcontractor will meet at least two days prior to the planned initiation of the decontamination work at SEAD 72, to conduct an inspection of the facility, to ascertain the condition of any residual furniture or fixtures in the building, and to review and discuss client, contractor, and subcontractor responsibilities during the performance of the work at this location. Based on observations made during Parsons last visit to the building, there is no evidence of any residual hazardous waste inventory within the building. However, this will be confirmed prior to the initiation of decontamination activities, and if necessary, arrangements will be made to remove and dispose of any hazardous waste inventory found in the building at the time of the planned closure. Costs for the removal and disposal of any residual hazardous waste inventory identified in the building are not included in this estimate as no such material is expected to be present.

The location of any stains on the building's walls, floors, or ceiling will also be noted and recorded in field logs, and these locations will subsequently receive more attentions and possibly, aggressive levels of cleaning (e.g., detergent and water wash, hexane wash, etc.) once the decontamination work begins to ensure that these surfaces are cleaned to the fullest extent possible. Finally, issues regarding site access and egress; material handling, staging, storage and disposal; and project safety, administrative and managerial issues will also be discussed.

Subsequent to the preliminary meeting, Parsons and its subcontractor will mobilize personnel and equipment to Building 803 to perform the cleaning. It is expected that one Parsons employee will supervise and oversee the work, while the decontamination will be performed by a crew from the subcontractor. All floors, walls, and ceilings within the building will initially be brushed with a dry, stiff bristle brush or similar device to remove loose, flaking paint that has been observed to be present within the building. This paint is presumed to be lead-based, and this material will be collected and separated from other decontamination wastes. Once all surfaces have been brushed cleaned, all loosened debris will

be recovered using a high-efficiency particulate air (HEPA) vacuum and captured debris will be transferred into opened head 55-gallon DOT approved drum or similar approved receptacles, pending the collection of characterization samples, temporary storage, final disposal determinations, and subsequent disposal at an off-site facilities. It is expected that three drums of material will need to be solidified with lime or cement and disposed off-site at a licenses landfill.

Once all debris has been recovered, all floors, walls, and ceiling will be power washed, and all waste water will be captured and placed into drums, pending sample analysis for disposal characterization. Solid material contained in the captured waste water will be allowed to settle, and segregated from the waste water prior to the collection of waste disposal samples. The recovered solids will be added to the waste paint and debris recovered during the initial brushing and HEPA vacuum operation.

If evidence of staining remains at any location after the completion of the first power washing sequence, solvent (i.e., hexane) or detergent and water solutions and additional scrubbing operations will be performed to more thoroughly clean the stained areas. Wastes from these operations will also be recovered and drummed, pending sample analysis prior to disposal at off-site locations. Soap and water wastes will be added to the waste water stream, while solvent waste, if used, will be captured and stored separately, pending chemical characterization.

Once the initial decontamination operation is completed, rinseate samples will be collected from seven randomly selected locations within the building. Additionally, Parsons also expects to collect four additional four additional samples (i.e., rinse blank, sample duplicate, matrix spike and matrix spike duplicate) for quality assurance and quality control purposes. Each of these samples will be collected in accordance with the NYSDEC prescribed procedures for rinseate samples, which are documented in Appendix C of the approved Closure Plan, and will consist of de-ionized water that is allowed to stand in contact with the cleaned floor surface for a period of time not less than 10 minutes. The recovered rinseate samples will be analyzed for the five solvent (i.e., isopropanol, Freon® 11 [trichlorofluoromethane], trichloroethylene, acetone, and toluene) that were used on the wipes that were stored within this building. Analytical results obtained for each analyte in each of these samples will be compared to the value assigned trichloroethylene as the toxicity characteristic (TC) threshold value (i.e., 0.5 milligrams per liter [mg/L]) to assess whether evidence of residual contamination exists.

If evidence of residual contamination is identified in the initial set of decontamination confirmation samples, the building will be decontaminated a second time using steam, and the condensate will be collected and drummed pending disposal characterization sampling and analysis and final disposal determination. A second series of rinseate samples will be collected, and characterized for the same sample five solvent analytes, and the results will compared to trichloroethylene's TC value.

Parsons has assumed that the building will be found to be clean after the first or second decontamination washes and sampling operations. If residual contamination exists after these sequences, Parsons will hold follow on discussions with the Army to determine appropriate steps that may be taken at the building. If additional cleaning is required, additional costs for decontamination and sampling operations may be required.

Once the RCRA Closure of Building 803 has been confirmed by sampling and analysis results, a closure certification report will be prepared and submitted to the Army and, once approved by the Army, to the regulators. The closure certification report will be prepared to demonstrate that the requirements were met as presented in the RCRA Closure Plans. The report will provide a history of the sites; results of inspections; description of work performed; final conclusions and recommendations; and completed closure certifications. It is assumed that three submissions of the document will be made (draft, draft final, final) to the regulators.

3.0 TRAVEL AND LIVING EXPENSES

The development of Parsons' travel costs and living expenses are explained in the following subsections. Cabrera Service's travel costs and living expenses are identified in the attached subcontractor package provided in this proposal response.

3.1 Air Travel

Air travel estimates are based on current rate information from a travel agency using standard coach fare. Quotations are provided for round trip air fares from Boston, MA to Syracuse, NY assuming 7 day advance purchase.

3.2 Rental Vehicle Cars

Rental vehicle rates are based on quotations received from Hertz rental agency in Boston, MA and Syracuse, New York. Parsons anticipates that one or two employees will drive from Boston to Romulus to complete the required work. An SUV will be needed to move sampling equipment. Costs for gasoline that must be replenished in rental vehicles prior to return are estimated based on current prevailing fuel (gasoline) prices in the Syracuse, NY area. Current fuel price quotations are documented and attached. Tolls are quoted in accordance with Mass Turnpike Authority and New York Thruway enclosures.

3.3 Per Diem

Per diem rates are based upon the 2008 Prescribed Maximum Per Diem Rates for CONUS. Rates for Romulus and Waterloo, NY are included.

4.0 OTHER DIRECT COSTS

The basis for estimating other direct costs is given below. The costs for analytical services were based on unit prices quoted by the laboratories.

4.1 Express Mail Packages

The rates proposed for two day courier mail shipments (e.g., Fed Ex) from Boston to Romulus NY are $31.71 for 4 pound (lb.) packages, $39.94 for 10 lb. packages, $51.87 for 20 lb. packages and $260.26 for 70 lb. packages. First class mail rates are assumed to be $0.51 for mixed business mail weighing less than 2 ounces. A first class mail rate of $2.02 is applied for 8 ounce packages, and $4.80 is used for packages of up to 4 lbs.

4.2 Equipment Rental

Equipment costs associated with long-term monitoring were obtained from local equipment vendors or vendors with whom Parsons has accounts (e.g. Pine Equipment).

4.3 Materials and Supplies

Material and supplies associated with field work were obtained from local suppliers or suppliers with whom Parsons has accounts (e.g. Lab Safety Supply).

4.3 Project Office

Parsons maintains a project office at the Depot in Building 114. Heating oil costs are associated with heating Building 114 at the Depot; the unit price for oil is based on the current (March 2008) unit rate for oil from the company refilling the oil tanks for the building, Griffith Energy. Telephone and internet service for the office is provided by Trumansburg Telephone Company.

5.0 SUBCONTRACTORS

Parsons will select a competitively priced laboratory to provide the required analytical services.

Parsons has identified S. St. George Enterprises (St. George) to conduct the SEAD 12 Removal Action earthwork and the Building 803 RCRA Closure processes for this effort. St. George is a self-Certified Small Disadvantaged Business, and has been a frequent subcontractor to Parsons on removal actions at the Seneca Army Depot Activity completed under other contract vehicles. St. George is well aware of administrative, technical and health and safety requirements established by the Army and Parsons for cleaning, excavation, disposal, and site restoration activities.

Parsons has also identified Cabrera Services as the radiological consultant for the removal action effort. Cabrera Services previously served as the radiological consultant for Plexus and the USACE on the SEAD-63 removal action that was performed at the Depot. This work is the basis of the planned SEAD-12 effort. Cabrera Services is also a Small Disadvantaged Business, and the proposed CHP (Mr. John Hackett) identified by Cabrera for this effort is knowledgeable of historic radiological activities performed at the Seneca Army Depot due to his former work at the site as part of the Final Status Survey work at SEAD-48 when he was an employee of Parsons.

6.0 CONTRACT AND PAYMENT TERM ISSUES

Invoices will be issued monthly, with amounts based on a percent complete by task basis. Invoices are payable on or before the 30th day after receipt of a proper invoice.

This contract does not have FAR 52.242.15 *Stop Work Order* or 52.242.17 *Government Delay of Work*. Parsons recommends adding these clauses to the proposed task order.

Table 1

Basis of Estimate - Quantities Anticipated to the Encountered in SEAD-12 Excavations

Excavation Area Identity	Area (square feet)	Anticipated Excavation Depth (feet)	Anticipated Excavation Volume (cubic yards)	Anticipated > 4" Debris Volume (cubic yards)	Anticipated Soil Volume (cubic yards)	Overburden Depth (feet)	Anticipated Overburden Soil Volume (cubic yards)	Anticipated < 4" Debris and Soil Volume (cubic yards)
Pits A & B	22,500	6	5,000	556	4,444	2.5	2,083	2,361
Pit C-1 north	13,200	4	2,000	667	1,333	0.5	244	1,089
Pit C-2 south	27,000	7	7,000	777	6,223	3.0	3,000	3,223
Total	**62,700**		**14,000**	**2,000**	**12,000**		**5,328**	**6,672**

Labor Rate Buildup - Cost Plus Fixed Fee and Facilities Capital Cost of Money

Seneca Army Depot Activity, Proposed New Task Order, SEAD12/72, W912DY-08-D-0003

		Base Year					
Labor Code	Labor Category	Base	Home Indirect	Subtotal	Profit	FCCM	Total
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	$ 80.79	$ 145.33	$ 8.72	$ 0.30	$ 154.35
1M22C	PROJECT MANAGER	$ 55.62	$ 69.63	$ 125.25	$ 7.51	$ 0.26	$ 133.02
1E16A	ENGINEER, ASSOCIATE	$ 26.09	$ 32.66	$ 58.75	$ 3.52	$ 0.12	$ 62.40
1E18A	ENGINEER II	$ 36.44	$ 45.62	$ 82.06	$ 4.92	$ 0.17	$ 87.15
1S15A	SCIENTIST	$ 24.03	$ 30.08	$ 54.11	$ 3.25	$ 0.11	$ 57.47
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	$ 62.20	$ 111.89	$ 6.71	$ 0.23	$ 118.84
1Q19A	QUALITY ASSURANCE ENGR,SR	$ 42.25	$ 52.89	$ 95.14	$ 5.71	$ 0.20	$ 101.04
1T19A	TECHNICAL SPECIALIST, SR	$ 41.29	$ 51.69	$ 92.98	$ 5.58	$ 0.19	$ 98.75
1L17C	CONTRACT ADMINISTRATOR	$ 30.69	$ 38.42	$ 69.11	$ 4.15	$ 0.14	$ 73.40
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	$ 73.82	$ 132.79	$ 7.97	$ 0.28	$ 141.03
0D17D	DESIGNER	$ 30.20	$ 37.80	$ 68.00	$ 4.08	$ 0.14	$ 72.23
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	$ 80.79	$ 145.33	$ 8.72	$ 0.30	$ 154.35
1E16A	ENGINEER, ASSOCIATE	$ 26.09	$ 32.66	$ 58.75	$ 3.52	$ 0.12	$ 62.40
1S19B	GEOLOGIST, PRINCIPAL	$ 40.26	$ 50.40	$ 90.66	$ 5.44	$ 0.19	$ 96.29
0F15E	BILLING COORDINATOR	$ 22.74	$ 28.47	$ 51.21	$ 3.07	$ 0.11	$ 54.38
1C21G	SAFETY MANAGER	$ 48.61	$ 60.85	$ 109.46	$ 6.57	$ 0.23	$ 116.25
1S21A	SCIENTIST, PROJECT	$ 49.18	$ 61.56	$ 110.74	$ 6.64	$ 0.23	$ 117.62
1E18A	ENGINEER II	$ 36.44	$ 45.62	$ 82.06	$ 4.92	$ 0.17	$ 87.15
0A16A	ADMINISTRATIVE ASST,SR	$ 25.77	$ 32.26	$ 58.03	$ 3.48	$ 0.12	$ 61.63
1S21A	SCIENTIST, PROJECT	$ 49.18	$ 61.56	$ 110.74	$ 6.64	$ 0.23	$ 117.62
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 39.15	$ 49.01	$ 88.16	$ 5.29	$ 0.18	$ 93.63
1C20B	CONSTR SUPERINTENDENT,AREA	$ 45.52	$ 56.98	$ 102.50	$ 6.15	$ 0.21	$ 108.86

Labor Rate Buildup - Parsons Indirect Rates

Seneca Army Depot Activity, Proposed New Task Order, SEAD12/72, W912DY-08-D-0003

	Parsons Forward Pricing Rates by CY				Forward Pricing Rates Conformed to Project YR
	2008	**2009**	**2010**	**2011+**	**Base Yr**
Home Office Overhead	42.07%	42.75%	42.93%	41.97%	42.77%
G&A	37.84%	38.05%	37.93%	37.00%	38.04%
Fringe	54.25%	44.37%	44.36%	44.11%	44.37%
Total Home Office Rate	**134.16%**	**125.17%**	**125.22%**	**123.08%**	**125.18%**
FCCM	0.553%	0.467%	0.477%	0.477%	0.468%
Field Office Overhead	26.92%	27.28%	27.44%	26.48%	27.29%
G&A	37.84%	38.05%	37.93%	37.00%	38.04%
Fringe	54.25%	44.37%	44.36%	44.11%	44.37%
Total Fiedl Office Rate	**119.01%**	**109.70%**	**109.73%**	**107.59%**	**109.70%**
FCCM	0.092%	0.079%	0.070%	0.070%	0.078%

Notes:
(1) Forward Pricing Indirect Rates are per the December 4, 2008 approval letter from Parsons cogn

(2) Forward Pricing Calendar Year Rates were conformed to each Contract Period by prorating the the contract period based on the following schedule:

Period	Start	End
Base Year	2/1/2009	1/31/2010

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Parsons
Base Tasks 1 - 5
Summary Sheet
Supporting Data Format

COST PLUS FIXED FEE

Printed: 01/23/09

(1)	**DIRECT LABOR COST SUMMARY (J)**			
	TASK		**HOURS (J)**	**AMOUNT (F)**
	Task 1	Preparation of Work Plan	500	$17,684
	Task 2	Non-Time Critical Removal Action	1089	$52,045
	Task 3	Weekly Reports	152	$5,481
	Task 4	Removal Completion Report	630	$22,772
	Task 5	Project Management	264	$10,907
(2)	**DIRECT LABOR COST (F)**		2,635	$108,888
(3)	**OVERHEAD ON DIRECT LABOR (F)**			
(3a)		**Parsons I&T**	125.18%	$136,306
(3b)		**FCCM**	0.47%	$509
(4)	**MATERIALS and SUPPLIES (J)**			$2,525
(5)	**TRAVEL (J)**			$24,422
(6)	**OTHERS (J)**			$15,664
(7)		**SUBTOTAL ITEMS 2, 3a, 4, 5,& 6**		$287,804
(8)	**SUBCONTRACTOR (J)**			$755,159
			PROJECT TOTAL 3b,7,8	$1,043,473
(9)	**PROFIT or FEE (F)**			
		6% of Line 7		$17,268
		3% of Line 8		$22,655
			TOTAL ESTIMATE	**$1,083,396**

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Parsons
Base Tasks 1 - 5
Summary Sheet
Supporting Data Format

COST PLUS FIXED FEE **Printed:** 23-Jan-09

TASK		AMOUNT	SUBCONTRACTOR	AMT W/O SUBCONTRACTOR	FEE	FCCM	TOTAL
Task 1	Preparation of Work Plan	$50,669	$8,714	$41,956	$2,779	$83	$53,531
Task 2	Non-Time Critical Removal Action	$867,185	$ 720,380	$146,805	$30,420	$243	$897,848
Task 3	Weekly Reports	$12,900	$0	$12,900	$774	$26	$13,700
Task 4	Removal Completion Report	$79,930	$26,065	$53,865	$4,014	$107	$84,051
Task 5	Project Management	$32,279	$0	$32,279	$1,937	$51	$34,267
TOTAL		$1,042,964	$755,159	$287,804	$39,923	$509	
PROJECT TOTAL							**$1,083,396**

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

COST PLUS FIXED FEE

Parsons
Base Tasks 1 - 5
Summary Sheet

Labor Rate - Wtd. Ave. 02/09 - 01/10
Printed: 23-Jan-09

Classification		Basis ID	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
1M23C	PROJECT MANAGER, SENIOR		$64.54	/hour	382	$ 24,654	
1P22B	PROCUREMENT MANAGER, SR		$58.97	/hour	4	$ 236	
1M22C	PROJECT MANAGER		$55.62	/hour	236	$ 13,126	
1L21C	CONTRACT ADMINISTRATOR,PRIN		$49.69	/hour	24	$ 1,193	
1C21G	SAFETY MANAGER		$48.61	/hour	26	$ 1,264	
1C20B	CONSTR SUPERINTENDENT,AREA		$45.52	/hour	0	$ -	
1S21A	SCIENTIST, PROJECT		$49.18	/hour	152	$ 7,475	
1Q19A	QUALITY ASSURANCE ENGR,SR		$42.25	/hour	0	$ -	
1T19A	TECHNICAL SPECIALIST, SR		$41.29	/hour	8	$ 330	
1S19B	GEOLOGIST, PRINCIPAL		$40.26	/hour	440	$ 17,714	
1R18A	PROJ CTRL ENGR/SPEC, SR		$39.15	/hour	20	$ 783	
1E18A	ENGINEER II		$36.44	/hour	635	$ 23,139	
1L17C	CONTRACT ADMINISTRATOR		$30.69	/hour	16	$ 491	
0D17D	DESIGNER		$30.20	/hour	140	$ 4,228	
1E16A	ENGINEER, ASSOCIATE		$26.09	/hour	316	$ 8,244	
0A16A	ADMINISTRATIVE ASST,SR		$25.77	/hour	212	$ 5,463	
0F15E	BILLING COORDINATOR		$22.74	/hour	24	$ 546	
				/hour	0	$ -	
					0	$ -	
Tot Hours/Labor Cost					2635	$ 108,888	
				Markup on Labor:			
				Parsons I&T	125.18%	$ 136,306	
				FCCM	0.47%	$ 509	
					Burdened Labor:	$ 245,703	

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES

Field Notebook	$6.95	each	5	$ 35	
Braided Nylon Rope	$4.25	each	20	$ 85	
Decon Equip	$18.00	each	2	$ 36	
55 gal drums	$64.50	each	0	$ -	
Ice	$1.00	each	0	$ -	
Duct Tape (dozen)	$72.00	each	0	$ -	
Survey Stake/Flag	$48.50	each	1	$ 49	
Methanol (Optima)	$73.90	each	4	$ 296	
Heating Oil	$3.50	each	500	$ 1,750	Griffith Energy (10/08
Water (HPLC Grade)	$50.70	each	0	$ -	
Survey Stakes (100 budles)	$45.90	each	6	$ 275	
Subtotal Matls & Supplies				**$ 2,525**	

EQUIPMENT RENTAL

Isobutylene Calibration Gas	$58.50	each	2	$ 117	
Photvac 2020 PID	$725.00	month	2	$ 1,450	
Aerosol Monitor	$1,200.00	month	3	$ 3,600	
Trimbnle R8 GNSS GPS system	$1,295.00	week	3	$ 3,885	
Water Level Indicator	$50.00	each	0	$ -	
Hach colorimeter	$150.00	each	0	$ -	
Flow thru pH/cond meter	$300.00	each	0	$ -	
GPS Unit	$1,295.00	each	0	$ -	
Turbidimeter	$80.00	each	0	$ -	
Mobile Phone	$150.00	each	0	$ -	
Bladder pump	$150.00	each	0	$ -	
3.2 kw generator	$135.00	week	0	$ -	
Subtotal Rental				**$ 9,052**	

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

COST PLUS FIXED FEE

Parsons
Base Tasks 1 - 5
Summary Sheet

Labor Rate - Wtd. Ave. 02/09 - 01/10
Printed: 23-Jan-09

	Basis	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
HEALTH & SAFETY EQUIPMENT						
MSA Full Face Respirators		$239.00	each	0	$ -	
Viton Gloves		$59.60	each	0	$ -	
Kevlar Gloves		$8.30	each	0	$ -	
Latex Gloves		12.00	each	5	$ 60	
Organic Vapor/Acid Gas Cartridges		21.70	each	0	$ -	
Scott SKA PaK		1,687.00	each	0	$ -	
SF Chem Overboots		26.70	each	0	$ -	
Tyvek Coveralls with Hood		8.25	each	75	$ 619	
65 Gallon Response Kit		701.00	each	0	$ -	
	Subtotal H & S				**$ 679**	
TRAVEL						
Airfare Boston - Syracuse		$557.20	each	4	$ 2,229	
Airfare Boston - Huntsville		$500.00	each	0	$ -	
Travel - Booking Fee		$15.00	each	4	$ 60	
Airfare		$600.00	each	0	$ -	
Airfare		$500.00	each	0	$ -	
Subsist 1 -Romulus Waterloo		$146.00	each	88	$ 12,848	
Subsist 2		$123.00	each	0	$ -	
Subsist 3		$35.25	each	0	$ -	
Airport Parking - Logan		$24.00	each	18	$ 432	
SUV		$516.60	each	7	$ 3,616	
Auto Rental		$384.77	each	9	$ 3,463	
Tolls - Mass Turnpike RT		$13.70	each	1	$ 14	
Tolls- NY Thruway RT		$19.20	each	4	$ 77	
Gasoline (average Waterloo)		$1.830	each	920	$ 1,684	
Diesel Fuel (Average Waterloo)		$2.79	each	0	$ -	
	Subtotal Travel				**$ 24,422**	
IN-HOUSE SERVICES						
Trumansberg Phone (SEDA Office Phone)		$194.42	each	2	$ 389	
Teleconferencing (meetingplace)		$0.00	each	0	$ -	
FED Exp Package (4 lbs)		$31.71	each	88	$ 2,790	
FED Exp Package (10 lbs)		$39.94	each	18	$ 719	
FED Exp Package (20 lbs)		$51.87	each	0	$ -	
FED Exp Package (70 lbs)		$260.26	each	0	$ -	
FED Exp Package (10 lbs)		$39.94	each	14	$ 559	
Mail 8 oz first class		$2.02	each	12	$ 24	
Mail 4-lb pack		$4.80	each	0	$ -	
Mail letters		$0.54	each	48	$ 26	
Shipping		$119.30	each	2	$ 239	
	Subtotal Services				**$ 4,746**	
REPRODUCTION						
Compact Discs (50 pack)		$6.99	each	4	$ 28	
Jewel Cases (standard, 25 case)		$9.99	each	6	$ 60	
Blueline repro		$1.00	each	0	$ -	
Cronoflex Prod		$5.50	each	0	$ -	
3-ring binders (1.5 inch)		$7.50	each	60	$ 450	
3-ring binders (3 inch)		$10.82	each	60	$ 649	
Color Copies-Large Maps		$12.50	each	0	$ -	
	Subtotal Reproduction				**$ 1,187**	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Base Tasks 1 - 5	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Summary Sheet**	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803**	**Labor Rate - Wtd. Ave. 02/09 - 01/10**	
	COST PLUS FIXED FEE	**Printed:**	**23-Jan-09**

	Basis	Unit Cost 02/09-01/10	Units	Quantity		Cost	Notes
SUBCONTRACTORS							
Radiological Work Plan (Task 1)		$8,713.60	each	1	$	8,714	
Background Sampling (Radioactivity)		$2,362.50	each	1	$	2,363	
Soil Waste Characterization Sampling		$29,242.50	each	1	$	29,243	
Wastewater Characterization Sampling		$1,090.00	each	1	$	1,090	
Imported Fill Characterization		$905.00	each	1	$	905	
Radiological Onsite RP/HP Mob/Demob		$6,594.10	each	1	$	6,594	
Radiological Onsite RP/HP support		$8,211.14	each	6	$	49,267	
Radiological Consultant (Site Visit)		$6,394.67	each	2	$	12,789	
Excavation Subcontractor (Task 2.1)		$283,160.00	each	1	$	283,160	
Disposal Subcontractor (Task 2.2)		$230,960.00	each	1	$	230,960	
Site Restoration Costs (Tsk 2.3 Excavation Contractor)		$104,010.00	each	1	$	104,010	
Radiological Report (Task 4)		$26,065.49	each	1	$	26,065	
RCRA Decontamination (powerwash)		$9,220.00	each	0	$	-	
RCRA Decontamination (steam cleaning)		$7,380.00	each	0	$	-	
Lead Paint Samples		$270.00	each	0	$	-	
Waste Water Samples		$1,780.00	each	0	$	-	
Rinseate Samples		$1,650.00	each	0	$	-	
Subtotal Subcontractor					**$**	**755,159**	
SUBTOTAL LABOR (No FCCM)					**$**	**245,194**	
Fee on Direct Labor				**6.0%**	$	14,712	
SUBTOTAL ODCs					**$**	**42,611**	
Fee on ODCs				**6.0%**	$	2,557	
SUBTOTAL SUB					**$**	**755,159**	
Fee on Subcontractor				**3.0%**	$	22,655	
TASK TOTAL					**$**	**1,083,396**	
TASK TOTAL (does not include FCCM)					**$**	**1,042,964**	

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Parsons
Task 1
Preparation of Work Plan

Firm Fixed Price **Printed:** 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Classification						
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	/hour	20	$ 1,291	Review
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	/hour		$ -	
1M22C	PROJECT MANAGER	$ 55.62	/hour	32	$ 1,780	Review and Direction
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	/hour		$ -	
1C21G	SAFETY MANAGER	$ 48.61	/hour	8	$ 389	
1C20B	CONSTR SUPERINTENDENT,AREA	$ 45.52	/hour		$ -	Review of HASP
1S21A	SCIENTIST, PROJECT	$ 49.18	/hour	40	$ 1,967	
1QI9A	QUALITY ASSURANCE ENGR,SR	$ 42.25	/hour		$ -	QAPP, Data validatio
1T19A	TECHNICAL SPECIALIST, SR	$ 41.29	/hour		$ -	
1S19B	GEOLOGIST, PRINCIPAL	$ 40.26	/hour		$ -	
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 39.15	/hour		$ -	
1E18A	ENGINEER II	$ 36.44	/hour	160	$ 5,830	
1L17C	CONTRACT ADMINISTRATOR	$ 30.69	/hour		$ -	Author of Workplan, I
0D17D	DESIGNER	$ 30.20	/hour	48	$ 1,450	
1E16A	ENGINEER, ASSOCIATE	$ 26.09	/hour	92	$ 2,400	Drafting
0A16A	ADMINISTRATIVE ASST,SR	$ 25.77	/hour	100	$ 2,577	Co-Author of Workpl
0F15E	BILLING COORDINATOR	$ 22.74	/hour		$ -	Word Processing
0	0	$ -	/hour		$ -	
					$ -	
Tot Hours/Labor Cost				500	**$ 17,684**	
			Markup on Labor:			
			Parsons I&T	125.18%	**$ 22,137**	
			FCCM	0.47%	**$ 83**	
				Burdened Labor:	**$ 39,904**	

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES

Field Notebook	$6.95	each	$ -
Braided Nylon Rope	$4.25	each	$ -
Decon Equip	$18.00	each	$ -
55 gal drums	$64.50	each	$ -
Ice	$1.00	each	$ -
Duct Tape (dozen)	$72.00	each	$ -
Survey Stake/Flag	$48.50	each	$ -
Methanol (Optima)	$73.90	each	$ -
Heating Oil	$3.50	each	$ -
Water (HPLC Grade)	$50.70	each	$ -
Survey Stakes (100 budles)	$45.90	each	$ -
Subtotal Matls & Supplies			**$ -**

EQUIPMENT RENTAL

Isobutylene Calibration Gas	$58.50	each	$ -
Photvac 2020 PID	$725.00	month	$ -
Aerosol Monitor	$1,200.00	month	$ -
Trimbnle R8 GNSS GPS system	$1,295.00	week	$ -
Water Level Indicator	$50.00	each	$ -
Hach colorimeter	$150.00	each	$ -
Flow thru pH/cond meter	$300.00	each	$ -
GPS Unit	$1,295.00	each	$ -
Turbidimeter	$80.00	each	$ -
Mobile Phone	$150.00	each	$ -
Bladder pump	$150.00	each	$ -
3.2 kw generator	$135.00	week	$ -
Subtotal Rental			**$ -**

HEALTH & SAFETY EQUIPMENT

MSA Full Face Respirators	$239.00	each	$ -
Viton Gloves	$59.60	each	$ -
Kevlar Gloves	$8.30	each	$ -
Latex Gloves	$12.00	each	$ -

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Parsons
Task 1
Preparation of Work Plan

Firm Fixed Price

Printed: 23-Jan-09

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Organic Vapor/Acid Gas Cartridges	$21.70	each		$ -	
Scott SKA PaK	$1,687.00	each		$ -	
SF Chem Overboots	$26.70	each		$ -	
Tyvek Coveralls with Hood	$8.25	each		$ -	
65 Gallon Response Kit	$701.00	each		$ -	
Subtotal H & S				**$ -**	
TRAVEL					
Airfare Boston - Syracuse	$557.20	each		$ -	
Airfare Boston - Huntsville	$500.00	each		$ -	
Travel - Booking Fee	$15.00	each		$ -	
Airfare	$600.00	each		$ -	
Airfare	$500.00	each		$ -	
Subsist 1 -Romulus Waterloo	$146.00	each		$ -	
Subsist 2	$123.00	each		$ -	
Subsist 3	$35.25	each		$ -	
Airport Parking - Logan	$24.00	each		$ -	
SUV	$516.60	each		$ -	
Auto Rental	$384.77	each		$ -	
Tolls - Mass Turnpike RT	$13.70	each		$ -	
Tolls- NY Thruway RT	$19.20	each		$ -	
Gasoline (average Waterloo)	$1.83	each		$ -	
Diesel Fuel (Average Waterloo)	$2.79	each		$ -	
Subtotal Travel				**$ -**	
IN-HOUSE SERVICES					
Trumansberg Phone (SEDA Office Phone)	$194.42	each		$ -	
Teleconferencing (meetingplace)	$0.00	each		$ -	
FED Exp Package (4 lbs)	$31.71	each	40	$ 1,268	
FED Exp Package (10 lbs)	$39.94	each	9	$ 359	
FED Exp Package (20 lbs)	$51.87	each		$ -	
FED Exp Package (70 lbs)	$260.26	each		$ -	
FED Exp Package (10 lbs)	$39.94	each		$ -	
Mail 8 oz first class	$2.02	each		$ -	
Mail 4-lb pack	$4.80	each		$ -	
Mail letters	$0.54	each	24	$ 13	
Shipping	$119.30	each		$ -	
Subtotal Services				**$ 1,641**	
REPRODUCTION					
Compact Discs (50 pack)	$6.99	each	2	$ 14	
Jewel Cases (standard, 25 case)	$9.99	each	3	$ 30	
Blueline repro	$1.00	each		$ -	
Cronoflex Prod	$5.50	each		$ -	
3-ring binders (1.5 inch)	$7.50	each	60	$ 450	
3-ring binders (3 inch)	$10.82	each		$ -	
Color Copies-Large Maps	$12.50	each		$ -	
Subtotal Reproduction				**$ 494**	
SUBCONTRACTORS					
Radiological Work Plan (Task 1)	$8,713.60	each	1	$ 8,714	
Background Sampling (Radioactivity)	$2,362.50	each		$ -	
Soil Waste Characterization Sampling	$29,242.50	each		$ -	
Wastewater Characterization Sampling	$1,090.00	each		$ -	
Imported Fill Characterization	$905.00	each		$ -	
Radiological Onsite RP/HP Mob/Demob	$6,594.10	each		$ -	
Radiological Onsite RP/HP support	$8,211.14	each		$ -	
Radiological Consultant (Site Visit)	$6,394.67	each		$ -	
Excavation Subcontractor (Task 2.1)	$283,160.00	each		$ -	
Disposal Subcontractor (Task 2.2)	$230,960.00	each		$ -	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 1	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Preparation of Work Plan**	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803**		
	Firm Fixed Price	**Printed:**	**23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each		$ -	
Radiological Report (Task 4)	$26,065.49	each		$ -	
RCRA Decontamination (powerwash)	$9,220.00	each		$ -	
RCRA Decontamination (steam cleaning)	$7,380.00	each		$ -	
Lead Paint Samples	$270.00	each		$ -	
Waste Water Samples	$1,780.00	each		$ -	
Rinseate Samples	$1,650.00	each		$ -	
Subtotal Subcontractor				**$ 8,714**	
SUBTOTAL LABOR (No FCCM)				**$ 39,821**	
Fee on Direct Labor			**6.0%**	$ 2,389	
SUBTOTAL ODCs				**$ 2,135**	
Fee on ODCs			**6.0%**	$ 128	
SUBTOTAL SUB				**$ 8,714**	
Fee on Subcontractor			**3.0%**	$ 261	
TASK TOTAL				**$ 53,531**	
TASK TOTAL (does not include FCCM)				**$ 50,669**	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 2	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Non-Time Critical Removal Action**	
		at the Radiological Site (SEAD-12)	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		

Printed: **23-Jan-09**

		Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Classification						
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	/hour	334	$ 21,556	
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	/hour	0	$ -	
1M22C	PROJECT MANAGER	$ 55.62	/hour	36	$ 2,002	
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	/hour	0	$ -	
1S21A	SCIENTIST, PROJECT	$ 48.61	/hour	10	$ 486	
1C21G	SAFETY MANAGER	$ 45.52	/hour	0	$ -	
1C20B	CONSTR SUPERINTENDENT,AREA	$ 49.18	/hour	82	$ 4,033	
1E20B	PROJECT ENGINEER	$ 42.25	/hour	0	$ -	
1B20A	BUSINESS DEV REP	$ 41.29	/hour	0	$ -	
1Q19A	QUALITY ASSURANCE ENGR,SR	$ 40.26	/hour	440	$ 17,714	
1T19A	TECHNICAL SPECIALIST, SR	$ 39.15	/hour	0	$ -	
1S19B	GEOLOGIST, PRINCIPAL	$ 36.44	/hour	127	$ 4,628	
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 30.69	/hour	0	$ -	
1E18A	ENGINEER II	$ 30.20	/hour	16	$ 483	
1L17C	CONTRACT ADMINISTRATOR	$ 26.09	/hour	24	$ 626	
0D17D	DESIGNER	$ 25.77	/hour	20	$ 515	
1E16A	ENGINEER, ASSOCIATE	$ 22.74	/hour	0	$ -	
0A16A	ADMINISTRATIVE ASST,SR	$ -	/hour	0	$ -	
					$ -	
Tot Hours/Labor Cost				1089	**$ 52,045**	
			Markup on Labor:			
			Parsons I&T	125.18%	**$ 65,149**	
			FCCM	0.47%	**$ 243**	
				Burdened Labor:	**$ 117,437**	

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES					
	Field Notebook	$6.95	each	5	$ 35
	Braided Nylon Rope	$4.25	each	20	$ 85
	Decon Equip	$18.00	each	2	$ 36
	55 gal drums	$64.50	each	0	$ -
	Ice	$1.00	each	0	$ -
	Duct Tape (dozen)	$72.00	each	0	$ -
	Survey Stake/Flag	$48.50	each	1	$ 49
	Methanol (Optima)	$73.90	each	4	$ 296
	Heating Oil	$3.50	each	0	$ -
	Water (HPLC Grade)	$50.70	each	0	$ -
	Survey Stakes (100 budles)	$45.90	each	6	$ 275
	Subtotal Matls & Supplies				**$ 775**
EQUIPMENT RENTAL					
	Isobutylene Calibration Gas	$58.50	each	2	$ 117
	Photvac 2020 PID	$725.00	month	2	$ 1,450
	Aerosol Monitor	$1,200.00	month	3	$ 3,600
	Trimbnle R8 GNSS GPS system	$1,295.00	week	3	$ 3,885
	Water Level Indicator	$50.00	each	0	$ -
	Hach colorimeter	$150.00	each	0	$ -
	Flow thru pH/cond meter	$300.00	each	0	$ -
	GPS Unit	$1,295.00	each	0	$ -
	Turbidimeter	$80.00	each	0	$ -
	Mobile Phone	$150.00	each	0	$ -
	Bladder pump	$150.00	each	0	$ -
	3.2 kw generator	$135.00	week	0	$ -
	Subtotal Rental				**$ 9,052**

Client:	**U.S. Army Corps of Engineers**		**Parsons**
			Task 2
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**		**Non-Time Critical Removal Action at the Radiological Site (SEAD-12)**
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		

Printed: 23-Jan-09

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
HEALTH & SAFETY EQUIPMENT					
MSA Full Face Respirators	$239.00	each	0	$ -	
Viton Gloves	$59.60	each	0	$ -	
Kevlar Gloves	$8.30	each	0	$ -	
Latex Gloves	$12.00	each	5	$ 60	
Organic Vapor/Acid Gas Cartridges	$21.70	each	0	$ -	
Scott SKA PaK	$1,687.00	each	0	$ -	
SF Chem Overboots	$26.70	each	0	$ -	
Tyvek Coveralls with Hood	$8.25	each	75	$ 619	
65 Gallon Response Kit	$701.00	each	0	$ -	
Subtotal H & S				**$ 679**	
TRAVEL					
Airfare Boston - Syracuse	$557.20	each	0	$ -	
Airfare Boston - Huntsville	$500.00	each	0	$ -	
Travel - Booking Fee	$15.00	each	0	$ -	
Airfare	$600.00	each	0	$ -	
Airfare	$500.00	each	0	$ -	
Subsist 1 -Romulus Waterloo	$146.00	each	76	$ 11,096	
Subsist 2	$123.00	each	0	$ -	
Subsist 3	$35.25	each	0	$ -	
Airport Parking - Logan	$24.00	each	0	$ -	
SUV	$516.60	each	7	$ 3,616	
Auto Rental	$384.77	each	7	$ 2,693	
Tolls - Mass Turnpike RT	$13.70	each	1	$ 14	
Tolls- NY Thruway RT	$19.20	each	2	$ 38	
Gasoline (average Waterloo)	$1.83	each	900	$ 1,647	
Diesel Fuel (Average Waterloo)	$2.79	each	0	$ -	
Subtotal Travel				**$ 19,105**	
IN-HOUSE SERVICES					
Trumansberg Phone (SEDA Office Phone)	$194.42	each	0	$ -	
Teleconferencing (meetingplace)	$0.00	each	0	$ -	
FED Exp Package (4 lbs)	$31.71	each	0	$ -	
FED Exp Package (10 lbs)	$39.94	each	0	$ -	
FED Exp Package (20 lbs)	$51.87	each	0	$ -	
FED Exp Package (70 lbs)	$260.26	each	0	$ -	
FED Exp Package (10 lbs)	$39.94	each	0	$ -	
Mail 8 oz first class	$2.02	each	0	$ -	
Mail 4-lb pack	$4.80	each	0	$ -	
Mail letters	$0.54	each	0	$ -	
Shipping	$119.30	each	0	$ -	
Subtotal Services					
REPRODUCTION					
Compact Discs (50 pack)	$6.99	each	0	$ -	
Jewel Cases (standard, 25 case)	$9.99	each	0	$ -	
Blueline repro	$1.00	each	0	$ -	
Cronoflex Prod	$5.50	each	0	$ -	
3-ring binders (1.5 inch)	$7.50	each	0	$ -	
3-ring binders (3 inch)	$10.82	each	0	$ -	
Color Copies-Large Maps	$12.50	each	0	$ -	
Subtotal Reproduction				**$ -**	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 2	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Non-Time Critical Removal Action**	
		at the Radiological Site (SEAD-12)	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		

Printed: **23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
SUBCONTRACTORS					
Radiological Work Plan (Task 1)	$8,713.60	each	0	$ -	
Background Sampling (Radioactivity)	$2,362.50	each	1	$ 2,363	
Soil Waste Characterization Sampling	$29,242.50	each	1	$ 29,243	
Wastewater Characterization Sampling	$1,090.00	each	1	$ 1,090	
Imported Fill Characterization	$905.00	each	1	$ 905	
Radiological Onsite RP/HP Mob/Demob	$6,594.10	each	1	$ 6,594	
Radiological Onsite RP/HP support	$8,211.14	each	6	$ 49,267	
Radiological Consultant (Site Visit)	$6,394.67	each	2	$ 12,789	
Excavation Subcontractor (Task 2.1)	$283,160.00	each	1	$ 283,160	
Disposal Subcontractor (Task 2.2)	$230,960.00	each	1	$ 230,960	
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each	1	$ 104,010	
Radiological Report (Task 4)	$26,065.49	each	0	$ -	
RCRA Decontamination (powerwash)	$9,220.00	each	0	$ -	
RCRA Decontamination (steam cleaning)	$7,380.00	each	0	$ -	
Lead Paint Samples	$270.00	each	0	$ -	
Waste Water Samples	$1,780.00	each	0	$ -	
Rinseate Samples	$1,650.00	each	0	$ -	
Subtotal Subcontractor				**$ 720,380**	
SUBTOTAL LABOR (No FCCM)				**$ 117,194**	
Fee on Direct Labor			**6.0%**	**$ 7,032**	
SUBTOTAL ODCs				**$ 29,611**	
Fee on ODCs			**6.0%**	**$ 1,777**	
SUBTOTAL SUB				**$ 720,380**	
Fee on Subcontractor			**3.0%**	**$ 21,611**	
TASK TOTAL				**$ 897,848**	
TASK TOTAL (does not include FCCM or fixed fee)				**$ 867,185**	

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)

Parsons
Task 2.1
Excavation

Printed: 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Classification						
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	/hour	216	$ 13,941	Field Oversight and R
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	/hour	0	$ -	
1M22C	PROJECT MANAGER	$ 55.62	/hour	20	$ 1,112	Technical Direction
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	/hour	0	$ -	
1S21A	SCIENTIST, PROJECT	$ 48.61	/hour	10	$ 486	
1C21G	SAFETY MANAGER	$ 45.52	/hour	0	$ -	
1C20B	CONSTR SUPERINTENDENT,AREA	$ 49.18	/hour	45	$ 2,213	
1E20B	PROJECT ENGINEER	$ 42.25	/hour	0	$ -	Office Support
1B20A	BUSINESS DEV REP	$ 41.29	/hour	0	$ -	
1Q19A	QUALITY ASSURANCE ENGR,SR	$ 40.26	/hour	286	$ 11,514	
1T19A	TECHNICAL SPECIALIST, SR	$ 39.15	/hour	0	$ -	Field Oversight
1S19B	GEOLOGIST, PRINCIPAL	$ 36.44	/hour	80	$ 2,915	
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 30.69	/hour	0	$ -	Office Support
1E18A	ENGINEER II	$ 30.20	/hour	16	$ 483	
1L17C	CONTRACT ADMINISTRATOR	$ 26.09	/hour	24	$ 626	Survey Mapping
0D17D	DESIGNER	$ 25.77	/hour	10	$ 258	Survey Coordination -
1E16A	ENGINEER, ASSOCIATE	$ 22.74	/hour	0	$ -	Word Processing
0A16A	ADMINISTRATIVE ASST,SR	$ -	/hour		$ -	
					$ -	
Tot Hours/Labor Cost				707	**$ 33,549**	
			Markup on Labor:			
			Parsons I&T	125.18%	**$ 41,996**	
			FCCM	0.47%	**$ 157**	
				Burdened Labor:	**$ 75,702**	

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES

Field Notebook	$6.95	each	5	$ 35
Braided Nylon Rope	$4.25	each	20	$ 85
Decon Equip	$18.00	each	2	$ 36
55 gal drums	$64.50	each	0	$ -
Ice	$1.00	each	0	$ -
Duct Tape (dozen)	$72.00	each	0	$ -
Survey Stake/Flag	$48.50	each	1	$ 49
Methanol (Optima)	$73.90	each	4	$ 296
Heating Oil	$3.50	each	0	$ -
Water (HPLC Grade)	$50.70	each	0	$ -
Survey Stakes (100 budles)	$45.90	each	6	$ 275
Subtotal Matls & Supplies				**$ 775**

EQUIPMENT RENTAL

Isobutylene Calibration Gas	$58.50	each	2	$ 117
Photvac 2020 PID	$725.00	month	2	$ 1,450 Assumes 1 PID needed
Aerosol Monitor	$1,200.00	month	3	$ 3,600 Assumes 3 PID needed
Trimbnle R8 GNSS GPS system	$1,295.00	week	3	$ 3,885
Water Level Indicator	$50.00	each	0	$ -
Hach colorimeter	$150.00	each	0	$ -
Flow thru pH/cond meter	$300.00	each	0	$ -
GPS Unit	$1,295.00	each	0	$ -
Turbidimeter	$80.00	each	0	$ -
Mobile Phone	$150.00	each	0	$ -
Bladder pump	$150.00	each	0	$ -

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 2.1	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Excavation**	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		

Printed: **23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
3.2 kw generator	$135.00	week	0	$ -	
Subtotal Rental				**$ 9,052**	
				$ -	
HEALTH & SAFETY EQUIPMENT				$ -	
MSA Full Face Respirators	$239.00	each	0	$ -	
Viton Gloves	$59.60	each	0	$ -	
Kevlar Gloves	$8.30	each	0	$ -	
Latex Gloves	$12.00	each	5	$ 60	
Organic Vapor/Acid Gas Cartridges	$21.70	each	0	$ -	
Scott SKA PaK	$1,687.00	each	0	$ -	
SF Chem Overboots	$26.70	each	0	$ -	
Tyvek Coveralls with Hood	$8.25	each	45	$ 371	Assumes 1 Tyvek per d
65 Gallon Response Kit	$701.00	each	0	$ -	
Subtotal H & S				**$ 431**	
				$ -	
TRAVEL				$ -	
Airfare Boston - Syracuse	$557.20	each	0	$ -	
Airfare Boston - Huntsville	$500.00	each	0	$ -	
Travel - Booking Fee	$15.00	each	0	$ -	
Airfare	$600.00	each	0	$ -	
Airfare	$500.00	each	0	$ -	
Subsist 1 -Romulus Waterloo	$146.00	each	46	$ 6,716	Assumes 2 people - 23
Subsist 2	$123.00	each	0	$ -	
Subsist 3	$35.25	each	0	$ -	
Airport Parking - Logan	$24.00	each	0	$ -	
SUV	$516.60	each	4	$ 2,066	
Auto Rental	$384.77	each	4	$ 1,539	
Tolls - Mass Turnpike RT	$13.70	each	1	$ 14	
Tolls- NY Thruway RT	$19.20	each	2	$ 38	
Gasoline (average Waterloo)	$1.83	each	515	$ 942	Assumes 2 cars with $
Diesel Fuel (Average Waterloo)	$2.79	each	0	$ -	
Subtotal Travel				**$ 11,316**	
				$ -	
IN-HOUSE SERVICES				$ -	
Trumansberg Phone (SEDA Office Phone)	$194.42	each	0	$ -	
Teleconferencing (meetingplace)	$0.00	each	0	$ -	
FED Exp Package (4 lbs)	$31.71	each	0	$ -	
FED Exp Package (10 lbs)	$39.94	each	0	$ -	
FED Exp Package (20 lbs)	$51.87	each	0	$ -	
FED Exp Package (70 lbs)	$260.26	each	0	$ -	
FED Exp Package (10 lbs)	$39.94	each	0	$ -	
Mail 8 oz first class	$2.02	each	0	$ -	
Mail 4-lb pack	$4.80	each	0	$ -	
Mail letters	$0.54	each	0	$ -	
Shipping	$119.30	each	0	$ -	
Subtotal Services					
				$ -	
REPRODUCTION				$ -	
Compact Discs (50 pack)	$6.99	each	0	$ -	
Jewel Cases (standard, 25 case)	$9.99	each	0	$ -	
Blueline repro	$1.00	each	0	$ -	
Cronoflex Prod	$5.50	each	0	$ -	
3-ring binders (1.5 inch)	$7.50	each	0	$ -	
3-ring binders (3 inch)	$10.82	each	0	$ -	

Client:	**U.S. Army Corps of Engineers**		**Parsons**
			Task 2.1
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**		**Excavation**
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		

Printed: **23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity		Cost	Notes
Color Copies-Large Maps	$12.50	each	0	$	-	
Subtotal Reproduction				**$**	-	
SUBCONTRACTORS						
Radiological Work Plan (Task 1)	$8,713.60	each		$	-	
Background Sampling (Radioactivity)	$2,362.50	each	1	$	2,363	
Soil Waste Characterization Sampling	$29,242.50	each	0	$	-	
Wastewater Characterization Sampling	$1,090.00	each	0	$	-	
Imported Fill Characterization	$905.00	each	0	$	-	
Radiological Onsite RP/HP Mob/Demob	$6,594.10	each	1	$	6,594	
Radiological Onsite RP/HP support	$8,211.14	each	6	$	49,267	
Radiological Consultant (Site Visit)	$6,394.67	each	2	$	12,789	
Excavation Subcontractor (Task 2.1)	$283,160.00	each	1	$	283,160	
Disposal Subcontractor (Task 2.2)	$230,960.00	each	0	$	-	
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each	0	$	-	
Radiological Report (Task 4)	$26,065.49	each	0	$	-	
RCRA Decontamination (powerwash)	$9,220.00	each	0	$	-	
RCRA Decontamination (steam cleaning)	$7,380.00	each	0	$	-	
Lead Paint Samples	$270.00	each	0	$	-	
Waste Water Samples	$1,780.00	each	0	$	-	
Rinseate Samples	$1,650.00	each	0	$	-	
Subtotal Subcontractor				**$**	**354,173**	
SUBTOTAL LABOR (No FCCM)				**$**	**75,545**	
Fee on Direct Labor			**6.0%**	$	4,533	
SUBTOTAL ODCs				**$**	**21,575**	
Fee on ODCs			**6.0%**	$	1,294	
SUBTOTAL SUB				**$**	**354,173**	
Fee on Subcontractor			**3.0%**	$	10,625	
TASK TOTAL				**$**	**467,902**	
TASK TOTAL (does not include FCCM or fixed fee)				**$**	**451,293**	

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)

Parsons
Task 2.2
Disposal of Excavated Materials

Printed: 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Classification						
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	/hour	34	$ 2,194	Field Oversight and R
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	/hour	0	$ -	
1M22C	PROJECT MANAGER	$ 55.62	/hour	4	$ 222	Technical Direction
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	/hour	0	$ -	
1S21A	SCIENTIST, PROJECT	$ 48.61	/hour	0	$ -	
1C21G	SAFETY MANAGER	$ 45.52	/hour	0	$ -	
1C20B	CONSTR SUPERINTENDENT,AREA	$ 49.18	/hour	12	$ 590	
1E20B	PROJECT ENGINEER	$ 42.25	/hour	0	$ -	Office Support
1B20A	BUSINESS DEV REP	$ 41.29	/hour	0	$ -	
1Q19A	QUALITY ASSURANCE ENGR,SR	$ 40.26	/hour	44	$ 1,771	
1T19A	TECHNICAL SPECIALIST, SR	$ 39.15	/hour	0	$ -	Field Oversight
1S19B	GEOLOGIST, PRINCIPAL	$ 36.44	/hour	12	$ 437	
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 30.69	/hour	0	$ -	Office Support
1E18A	ENGINEER II	$ 30.20	/hour	0	$ -	
1L17C	CONTRACT ADMINISTRATOR	$ 26.09	/hour	0	$ -	
0D17D	DESIGNER	$ 25.77	/hour	0	$ -	
1E16A	ENGINEER, ASSOCIATE	$ 22.74	/hour	0	$ -	
0A16A	ADMINISTRATIVE ASST,SR	$ -	/hour		$ -	
				0	$ -	
Tot Hours/Labor Cost				106	**$ 5,216**	
			Markup on Labor:			
			Parsons I&T	125.18%	**$ 6,529**	
			FCCM	0.47%	**$ 24**	
				Burdened Labor:	**$ 11,769**	

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES

Field Notebook	$6.95	each	0	$ -
Braided Nylon Rope	$4.25	each	0	$ -
Decon Equip	$18.00	each	0	$ -
55 gal drums	$64.50	each	0	$ -
Ice	$1.00	each	0	$ -
Duct Tape (dozen)	$72.00	each	0	$ -
Survey Stake/Flag	$48.50	each	0	$ -
Methanol (Optima)	$73.90	each	0	$ -
Heating Oil	$3.50	each	0	$ -
Water (HPLC Grade)	$50.70	each	0	$ -
Survey Stakes (100 budles)	$45.90	each	0	$ -
Subtotal Matls & Supplies				**$ -**

EQUIPMENT RENTAL

Isobutylene Calibration Gas	$58.50	each	0	$ -
Photvac 2020 PID	$725.00	month	0	$ -
Aerosol Monitor	$1,200.00	month	0	$ -
Trimbnle R8 GNSS GPS system	$1,295.00	week	0	$ -
Water Level Indicator	$50.00	each	0	$ -
Hach colorimeter	$150.00	each	0	$ -
Flow thru pH/cond meter	$300.00	each	0	$ -
GPS Unit	$1,295.00	each	0	$ -
Turbidimeter	$80.00	each	0	$ -
Mobile Phone	$150.00	each	0	$ -
Bladder pump	$150.00	each	0	$ -

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)

Parsons
Task 2.2
Disposal of Excavated Materials

Printed: 23-Jan-09

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
3.2 kw generator	$135.00	week	0	$ -	
Subtotal Rental				**$ -**	
HEALTH & SAFETY EQUIPMENT					
MSA Full Face Respirators	$239.00	each	0	$ -	
Viton Gloves	$59.60	each	0	$ -	
Kevlar Gloves	$8.30	each	0	$ -	
Latex Gloves	$12.00	each	0	$ -	
Organic Vapor/Acid Gas Cartridges	$21.70	each	0	$ -	
Scott SKA PaK	$1,687.00	each	0	$ -	
SF Chem Overboots	$26.70	each	0	$ -	
Tyvek Coveralls with Hood	$8.25	each	10	$ 83	Assumes 1 Tyvek per
65 Gallon Response Kit	$701.00	each	0	$ -	
Subtotal H & S				**$ 83**	
TRAVEL					
Airfare Boston - Syracuse	$557.20	each	0	$ -	
Airfare Boston - Huntsville	$500.00	each	0	$ -	
Travel - Booking Fee	$15.00	each	0	$ -	
Airfare	$600.00	each	0	$ -	
Airfare	$500.00	each	0	$ -	
Subsist 1 -Romulus Waterloo	$146.00	each	10	$ 1,460	Assumes 2 people - 5
Subsist 2	$123.00	each	0	$ -	
Subsist 3	$35.25	each	0	$ -	
Airport Parking - Logan	$24.00	each	0	$ -	
SUV	$516.60	each	1	$ 517	
Auto Rental	$384.77	each	1	$ 385	
Tolls - Mass Turnpike RT	$13.70	each	0	$ -	
Tolls- NY Thruway RT	$19.20	each	0	$ -	
Gasoline (average Waterloo)	$1.83	each	128	$ 234	Assumes 2 cars with $
Diesel Fuel (Average Waterloo)	$2.79	each	0	$ -	
Subtotal Travel				**$ 2,596**	
IN-HOUSE SERVICES					
Trumansberg Phone (SEDA Office Phone)	$194.42	each			
Teleconferencing (meetingplace)	$0.00	each	0	$ -	
FED Exp Package (4 lbs)	$31.71	each	0	$ -	
FED Exp Package (10 lbs)	$39.94	each	0	$ -	
FED Exp Package (20 lbs)	$51.87	each	0	$ -	
FED Exp Package (70 lbs)	$260.26	each	0	$ -	
FED Exp Package (10 lbs)	$39.94	each	0	$ -	
Mail 8 oz first class	$2.02	each	0	$ -	
Mail 4-lb pack	$4.80	each	0	$ -	
Mail letters	$0.54	each	0	$ -	
Shipping	$119.30	each	0	$ -	
Subtotal Services					
REPRODUCTION					
Compact Discs (50 pack)	$6.99	each	0	$ -	
Jewel Cases (standard, 25 case)	$9.99	each	0	$ -	
Blueline repro	$1.00	each	0	$ -	
Cronoflex Prod	$5.50	each	0	$ -	
3-ring binders (1.5 inch)	$7.50	each	0	$ -	
3-ring binders (3 inch)	$10.82	each	0	$ -	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 2.2	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Disposal of Excavated Materials**	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		

Printed: 23-Jan-09

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Color Copies-Large Maps	$12.50	each	0	$ -	
Subtotal Reproduction				**$ -**	
SUBCONTRACTORS					
Radiological Work Plan (Task 1)	$8,713.60	each			
Background Sampling (Radioactivity)	$2,362.50	each		$ -	
Soil Waste Characterization Sampling	$29,242.50	each	1	$ 29,243	
Wastewater Characterization Sampling	$1,090.00	each	1	$ 1,090	
Imported Fill Characterization	$905.00	each		$ -	
Radiological Onsite RP/HP Mob/Demob	$6,594.10	each		$ -	
Radiological Onsite RP/HP support	$8,211.14	each		$ -	
Radiological Consultant (Site Visit)	$6,394.67	each		$ -	
Excavation Subcontractor (Task 2.1)	$283,160.00	each		$ -	
Disposal Subcontractor (Task 2.2)	$230,960.00	each	1	$ 230,960	
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each		$ -	
Radiological Report (Task 4)	$26,065.49	each		$ -	
RCRA Decontamination (powerwash)	$9,220.00	each		$ -	
RCRA Decontamination (steam cleaning)	$7,380.00	each		$ -	
Lead Paint Samples	$270.00	each		$ -	
Waste Water Samples	$1,780.00	each		$ -	
Rinseate Samples	$1,650.00	each		$ -	
Subtotal Subcontractor				**$ 261,293**	
SUBTOTAL LABOR (No FCCM)				**$ 11,745**	
Fee on Direct Labor			**6.0%**	$ 705	
SUBTOTAL ODCs				**$ 2,678**	
Fee on ODCs			**6.0%**	$ 161	
SUBTOTAL SUB				**$ 261,293**	
Fee on Subcontractor			**3.0%**	$ 7,839	
TASK TOTAL				**$ 284,444**	
TASK TOTAL (does not include FCCM or fixed fee)				**$ 275,715**	

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)

Parsons
Task 2.3
Restoration of the Site

Printed: 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost	
Classification						
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	/hour	84	$ 5,421	Field Oversight and R
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	/hour	0	$ -	
1M22C	PROJECT MANAGER	$ 55.62	/hour	12	$ 667	Technical Direction
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	/hour	0	$ -	
1S21A	SCIENTIST, PROJECT	$ 48.61	/hour	0	$ -	
1C21G	SAFETY MANAGER	$ 45.52	/hour	0	$ -	
1C20B	CONSTR SUPERINTENDENT,AREA	$ 49.18	/hour	25	$ 1,230	
1E20B	PROJECT ENGINEER	$ 42.25	/hour	0	$ -	Office Support
1B20A	BUSINESS DEV REP	$ 41.29	/hour	0	$ -	
1Q19A	QUALITY ASSURANCE ENGR,SR	$ 40.26	/hour	110	$ 4,429	
1T19A	TECHNICAL SPECIALIST, SR	$ 39.15	/hour	0	$ -	Field Oversight
1S19B	GEOLOGIST, PRINCIPAL	$ 36.44	/hour	35	$ 1,275	
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 30.69	/hour	0	$ -	Office Support
1E18A	ENGINEER II	$ 30.20	/hour	0	$ -	
1L17C	CONTRACT ADMINISTRATOR	$ 26.09	/hour	0	$ -	
0D17D	DESIGNER	$ 25.77	/hour	10	$ 258	
1E16A	ENGINEER, ASSOCIATE	$ 22.74	/hour	0	$ -	
0A16A	ADMINISTRATIVE ASST,SR	$ -	/hour		$ -	
					$ -	
Tot Hours/Labor Cost				276	**$ 13,280**	
			Markup on Labor:			
			Parsons I&T	125.18%	**$ 16,624**	
			FCCM	0.47%	**$ 62**	
				Burdened Labor:	**$ 29,966**	

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES

Field Notebook	$6.95	each	0	$ -
Braided Nylon Rope	$4.25	each	0	$ -
Decon Equip	$18.00	each	0	$ -
55 gal drums	$64.50	each	0	$ -
Ice	$1.00	each	0	$ -
Duct Tape (dozen)	$72.00	each	0	$ -
Survey Stake/Flag	$48.50	each	0	$ -
Methanol (Optima)	$73.90	each	0	$ -
Heating Oil	$3.50	each	0	$ -
Water (HPLC Grade)	$50.70	each	0	$ -
Survey Stakes (100 budles)	$45.90	each	0	$ -
Subtotal Matls & Supplies				**$** -

EQUIPMENT RENTAL

Isobutylene Calibration Gas	$58.50	each	0	$ -
Photvac 2020 PID	$725.00	month	0	$ - Assumes 3 PIDs for 2
Aerosol Monitor	$1,200.00	month	0	$ -
Trimbnle R8 GNSS GPS system	$1,295.00	week	0	$ -
Water Level Indicator	$50.00	each	0	$ -
Hach colorimeter	$150.00	each	0	$ -
Flow thru pH/cond meter	$300.00	each	0	$ -
GPS Unit	$1,295.00	each	0	$ -
Turbidimeter	$80.00	each	0	$ -
Mobile Phone	$150.00	each	0	$ -
Bladder pump	$150.00	each	0	$ -

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 2.3	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Restoration of the Site**	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		

Printed: 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost	
	3.2 kw generator	$135.00	week	0	$ -	
	Subtotal Rental				**$ -**	
HEALTH & SAFETY EQUIPMENT						
	MSA Full Face Respirators	$239.00	each	0	$ -	
	Viton Gloves	$59.60	each	0	$ -	
	Kevlar Gloves	$8.30	each	0	$ -	
	Latex Gloves	$12.00	each	0	$ -	
	Organic Vapor/Acid Gas Cartridges	$21.70	each	0	$ -	
	Scott SKA PaK	$1,687.00	each	0	$ -	
	SF Chem Overboots	$26.70	each	0	$ -	
	Tyvek Coveralls with Hood	$8.25	each	20	$ 165	
	65 Gallon Response Kit	$701.00	each	0	$ -	
	Subtotal H & S				**$ 165**	
TRAVEL						
	Airfare Boston - Syracuse	$557.20	each	0	$ -	
	Airfare Boston - Huntsville	$500.00	each	0	$ -	
	Travel - Booking Fee	$15.00	each	0	$ -	
	Airfare	$600.00	each	0	$ -	
	Airfare	$500.00	each	0	$ -	
	Subsist 1 -Romulus Waterloo	$146.00	each	20	$ 2,920	Assumes 2 people - 10
	Subsist 2	$123.00	each	0	$ -	
	Subsist 3	$35.25	each	0	$ -	
	Airport Parking - Logan	$24.00	each	0	$ -	
	SUV	$516.60	each	2	$ 1,033	
	Auto Rental	$384.77	each	2	$ 770	
	Tolls - Mass Turnpike RT	$13.70	each	0	$ -	
	Tolls- NY Thruway RT	$19.20	each	0	$ -	
	Gasoline (average Waterloo)	$1.83	each	257	$ 470	Assumes 2 cars with $
	Diesel Fuel (Average Waterloo)	$2.79	each	0	$ -	
	Subtotal Travel				**$ 5,193**	
IN-HOUSE SERVICES						
	Trumansberg Phone (SEDA Office Phone)	$194.42	each	0	$ -	
	Teleconferencing (meetingplace)	$0.00	each	0	$ -	
	FED Exp Package (4 lbs)	$31.71	each	0	$ -	
	FED Exp Package (10 lbs)	$39.94	each	0	$ -	
	FED Exp Package (20 lbs)	$51.87	each	0	$ -	
	FED Exp Package (70 lbs)	$260.26	each	0	$ -	
	FED Exp Package (10 lbs)	$39.94	each	0	$ -	
	Mail 8 oz first class	$2.02	each	0	$ -	
	Mail 4-lb pack	$4.80	each	0	$ -	
	Mail letters	$0.54	each	0	$ -	
	Shipping	$119.30	each	0	$ -	
	Subtotal Services					
REPRODUCTION						
	Compact Discs (50 pack)	$6.99	each	0	$ -	
	Jewel Cases (standard, 25 case)	$9.99	each	0	$ -	
	Blueline repro	$1.00	each	0	$ -	
	Cronoflex Prod	$5.50	each	0	$ -	
	3-ring binders (1.5 inch)	$7.50	each	0	$ -	
	3-ring binders (3 inch)	$10.82	each	0	$ -	

Client:	**U.S. Army Corps of Engineers**		**Parsons**
			Task 2.3
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**		**Restoration of the Site**
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		

Printed: **23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity		Cost
Color Copies-Large Maps	$12.50	each	0	$	-
Subtotal Reproduction				**$**	-
SUBCONTRACTORS					
Radiological Work Plan (Task 1)	$8,713.60	each	0	$	-
Background Sampling (Radioactivity)	$2,362.50	each	0	$	-
Soil Waste Characterization Sampling	$29,242.50	each	0	$	-
Wastewater Characterization Sampling	$1,090.00	each	0	$	-
Imported Fill Characterization	$905.00	each	1	$	905
Radiological Onsite RP/HP Mob/Demob	$6,594.10	each	0	$	-
Radiological Onsite RP/HP support	$8,211.14	each	0	$	-
Radiological Consultant (Site Visit)	$6,394.67	each	0	$	-
Excavation Subcontractor (Task 2.1)	$283,160.00	each	0	$	-
Disposal Subcontractor (Task 2.2)	$230,960.00	each	0	$	-
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each	1	$	104,010
Radiological Report (Task 4)	$26,065.49	each	0	$	-
RCRA Decontamination (powerwash)	$9,220.00	each	0	$	-
RCRA Decontamination (steam cleaning)	$7,380.00	each	0	$	-
Lead Paint Samples	$270.00	each	0	$	-
Waste Water Samples	$1,780.00	each	0	$	-
Rinseate Samples	$1,650.00	each	0	$	-
Subtotal Subcontractor				**$**	**104,915**
SUBTOTAL LABOR (No FCCM)				**$**	**29,904**
Fee on Direct Labor			**6.0%**	$	1,794
SUBTOTAL ODCs				**$**	**5,358**
Fee on ODCs			**6.0%**	$	321
SUBTOTAL SUB				**$**	**104,915**
Fee on Subcontractor			**3.0%**	$	3,147
TASK TOTAL				**$**	**145,502**
TASK TOTAL (does not include FCCM or fixed fee)				**$**	**140,177**

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Parsons
Task 3
Weekly Reports

Assumes 7 weeks of field work and 7 weekly reports

Firm Fixed Price **Printed:** 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Classification						
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	/hour	4	$ 258	Review
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	/hour		$ -	
1M22C	PROJECT MANAGER	$ 55.62	/hour	16	$ 890	Review and Direction
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	/hour		$ -	
1C21G	SAFETY MANAGER	$ 48.61	/hour		$ -	
1C20B	CONSTR SUPERINTENDENT,AREA	$ 45.52	/hour		$ -	
1S21A	SCIENTIST, PROJECT	$ 49.18	/hour		$ -	
1Q19A	QUALITY ASSURANCE ENGR,SR	$ 42.25	/hour		$ -	
1T19A	TECHNICAL SPECIALIST, SR	$ 41.29	/hour		$ -	
1S19B	GEOLOGIST, PRINCIPAL	$ 40.26	/hour		$ -	
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 39.15	/hour		$ -	
1E18A	ENGINEER II	$ 36.44	/hour	80	$ 2,915	
1L17C	CONTRACT ADMINISTRATOR	$ 30.69	/hour		$ -	Author of Weekly rep
0D17D	DESIGNER	$ 30.20	/hour	16	$ 483	
1E16A	ENGINEER, ASSOCIATE	$ 26.09	/hour	20	$ 522	Drafting
0A16A	ADMINISTRATIVE ASST,SR	$ 25.77	/hour	16	$ 412	Co-Author of Weekly
0F15E	BILLING COORDINATOR	$ 22.74	/hour		$ -	Word processing
0	0	$ -	/hour		$ -	
					$ -	
Tot Hours/Labor Cost				152	**$ 5,481**	
			Markup on Labor:			
			Parsons I&T	125.18%	**$ 6,861**	
			FCCM	0.47%	**$ 26**	
				Burdened Labor:	**$ 12,367**	

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES

Field Notebook	$6.95	each	$ -
Braided Nylon Rope	$4.25	each	$ -
Decon Equip	$18.00	each	$ -
55 gal drums	$64.50	each	$ -
Ice	$1.00	each	$ -
Duct Tape (dozen)	$72.00	each	$ -
Survey Stake/Flag	$48.50	each	$ -
Methanol (Optima)	$73.90	each	$ -
Heating Oil	$3.50	each	$ -
Water (HPLC Grade)	$50.70	each	$ -
Survey Stakes (100 budles)	$45.90	each	$ -
Subtotal Matls & Supplies			**$ -**

EQUIPMENT RENTAL

Isobutylene Calibration Gas	$58.50	each	$ -
Photvac 2020 PID	$725.00	month	$ -
Aerosol Monitor	$1,200.00	month	$ -
Trimbnle R8 GNSS GPS system	$1,295.00	week	$ -
Water Level Indicator	$50.00	each	$ -
Hach colorimeter	$150.00	each	$ -
Flow thru pH/cond meter	$300.00	each	$ -
GPS Unit	$1,295.00	each	$ -
Turbidimeter	$80.00	each	$ -
Mobile Phone	$150.00	each	$ -
Bladder pump	$150.00	each	$ -
3.2 kw generator	$135.00	week	$ -
Subtotal Rental			**$ -**

HEALTH & SAFETY EQUIPMENT

MSA Full Face Respirators	$239.00	each	$ -
Viton Gloves	$59.60	each	$ -
Kevlar Gloves	$8.30	each	$ -

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Firm Fixed Price

Parsons
Task 3
Weekly Reports

Assumes 7 weeks of field work and 7 weekly reports

Printed: 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
	Latex Gloves	$12.00	each		$ -	
	Organic Vapor/Acid Gas Cartridges	$21.70	each		$ -	
	Scott SKA PaK	$1,687.00	each		$ -	
	SF Chem Overboots	$26.70	each		$ -	
	Tyvek Coveralls with Hood	$8.25	each		$ -	
	65 Gallon Response Kit	$701.00	each		$ -	
	Subtotal H & S				**$ -**	
TRAVEL						
	Airfare Boston - Syracuse	$557.20	each		$ -	
	Airfare Boston - Huntsville	$500.00	each		$ -	
	Travel - Booking Fee	$15.00	each		$ -	
	Airfare	$600.00	each		$ -	
	Airfare	$500.00	each		$ -	
	Subsist 1 -Romulus Waterloo	$146.00	each		$ -	
	Subsist 2	$123.00	each		$ -	
	Subsist 3	$35.25	each		$ -	
	Airport Parking - Logan	$24.00	each		$ -	
	SUV	$516.60	each		$ -	
	Auto Rental	$384.77	each		$ -	
	Tolls - Mass Turnpike RT	$13.70	each		$ -	
	Tolls- NY Thruway RT	$19.20	each		$ -	
	Gasoline (average Waterloo)	$1.83	each		$ -	
	Diesel Fuel (Average Waterloo)	$2.79	each		$ -	
	Subtotal Travel				**$ -**	
IN-HOUSE SERVICES						
	Trumansberg Phone (SEDA Office Phone)	$194.42	each		$ -	
	Teleconferencing (meetingplace)	$0.00	each		$ -	
	FED Exp Package (4 lbs)	$31.71	each		$ -	
	FED Exp Package (10 lbs)	$39.94	each		$ -	
	FED Exp Package (20 lbs)	$51.87	each		$ -	
	FED Exp Package (70 lbs)	$260.26	each		$ -	
	FED Exp Package (10 lbs)	$39.94	each	14	$ 559	
	Mail 8 oz first class	$2.02	each		$ -	
	Mail 4-lb pack	$4.80	each		$ -	
	Mail letters	$0.54	each		$ -	
	Shipping	$119.30	each		$ -	
	Subtotal Services				**$ 559**	
REPRODUCTION						
	Compact Discs (50 pack)	$6.99	each		$ -	
	Jewel Cases (standard, 25 case)	$9.99	each		$ -	
	Blueline repro	$1.00	each		$ -	
	Cronoflex Prod	$5.50	each		$ -	
	3-ring binders (1.5 inch)	$7.50	each		$ -	
	3-ring binders (3 inch)	$10.82	each		$ -	
	Color Copies-Large Maps	$12.50	each		$ -	
	Subtotal Reproduction				**$ -**	
SUBCONTRACTORS						
	Radiological Work Plan (Task 1)	$8,713.60	each		$ -	
	Background Sampling (Radioactivity)	$2,362.50	each		$ -	
	Soil Waste Characterization Sampling	$29,242.50	each		$ -	
	Wastewater Characterization Sampling	$1,090.00	each		$ -	
	Imported Fill Characterization	$905.00	each		$ -	
	Radiological Onsite RP/HP Mob/Demob	$6,594.10	each		$ -	
	Radiological Onsite RP/HP support	$8,211.14	each		$ -	
	Radiological Consultant (Site Visit)	$6,394.67	each		$ -	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 3	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Weekly Reports**	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803**	Assumes 7 weeks of field work and 7 weekly reports	

Firm Fixed Price **Printed:** **23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Excavation Subcontractor (Task 2.1)	$283,160.00	each		$ -	
Disposal Subcontractor (Task 2.2)	$230,960.00	each		$ -	
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each		$ -	
Radiological Report (Task 4)	$26,065.49	each		$ -	
RCRA Decontamination (powerwash)	$9,220.00	each		$ -	
RCRA Decontamination (steam cleaning)	$7,380.00	each		$ -	
Lead Paint Samples	$270.00	each		$ -	
Waste Water Samples	$1,780.00	each		$ -	
Rinseate Samples	$1,650.00	each		$ -	
Subtotal Subcontractor				**$ -**	
SUBTOTAL LABOR (No FCCM)				**$ 12,341**	
Fee on Direct Labor			**6.0%**	$ 740	
SUBTOTAL ODCs				**$ 559**	
Fee on ODCs			**6.0%**	$ 34	
SUBTOTAL SUB				**$ -**	
Fee on Subcontractor			**3.0%**	$ -	
TASK TOTAL				**$ 13,700**	
TASK TOTAL (does not include FCCM or fixed fee)				**$ 12,900**	

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Parsons
Task 4
Removal Completion Report

Firm Fixed Price **Printed:** 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Classification						
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	/hour	20	$ 1,291	Tech review / Field E>
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	/hour		$ -	
1M22C	PROJECT MANAGER	$ 55.62	/hour	80	$ 4,450	Review and Direction
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	/hour		$ -	
1C21G	SAFETY MANAGER	$ 48.61	/hour		$ -	
1C20B	CONSTR SUPERINTENDENT,AREA	$ 45.52	/hour		$ -	
1S21A	SCIENTIST, PROJECT	$ 49.18	/hour	30	$ 1,475	
1Q19A	QUALITY ASSURANCE ENGR,SR	$ 42.25	/hour		$ -	Data Review
1T19A	TECHNICAL SPECIALIST, SR	$ 41.29	/hour		$ -	
1S19B	GEOLOGIST, PRINCIPAL	$ 40.26	/hour		$ -	
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 39.15	/hour		$ -	
1E18A	ENGINEER II	$ 36.44	/hour	220	$ 8,017	
1L17C	CONTRACT ADMINISTRATOR	$ 30.69	/hour		$ -	Author, Data tables, et
0D17D	DESIGNER	$ 30.20	/hour	60	$ 1,812	
1E16A	ENGINEER, ASSOCIATE	$ 26.09	/hour	180	$ 4,696	Drafting
0A16A	ADMINISTRATIVE ASST,SR	$ 25.77	/hour	40	$ 1,031	Co-Author, Data Tabl
0F15E	BILLING COORDINATOR	$ 22.74	/hour		$ -	Word Processing
0	0	$ -	/hour		$ -	
					$ -	
Tot Hours/Labor Cost				630	**$ 22,772**	
			Markup on Labor:			
			Parsons I&T	125.18%	**$ 28,505**	
			FCCM	0.47%	**$ 107**	
				Burdened Labor:	**$ 51,384**	

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES

Field Notebook	$6.95	each	$ -
Braided Nylon Rope	$4.25	each	$ -
Decon Equip	$18.00	each	$ -
55 gal drums	$64.50	each	$ -
Ice	$1.00	each	$ -
Duct Tape (dozen)	$72.00	each	$ -
Survey Stake/Flag	$48.50	each	$ -
Methanol (Optima)	$73.90	each	$ -
Heating Oil	$3.50	each	$ -
Water (HPLC Grade)	$50.70	each	$ -
Survey Stakes (100 budles)	$45.90	each	$ -
Subtotal Matls & Supplies			**$ -**

EQUIPMENT RENTAL

Isobutylene Calibration Gas	$58.50	each	$ -
Photvac 2020 PID	$725.00	month	$ -
Aerosol Monitor	$1,200.00	month	$ -
Trimbnle R8 GNSS GPS system	$1,295.00	week	$ -
Water Level Indicator	$50.00	each	$ -
Hach colorimeter	$150.00	each	$ -
Flow thru pH/cond meter	$300.00	each	$ -
GPS Unit	$1,295.00	each	$ -
Turbidimeter	$80.00	each	$ -
Mobile Phone	$150.00	each	$ -
Bladder pump	$150.00	each	$ -
3.2 kw generator	$135.00	week	$ -
Subtotal Rental			**$ -**

HEALTH & SAFETY EQUIPMENT

MSA Full Face Respirators	$239.00	each	$ -
Viton Gloves	$59.60	each	$ -
Kevlar Gloves	$8.30	each	$ -
Latex Gloves	$12.00	each	$ -

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Parsons
Task 4
Removal Completion Report

Firm Fixed Price — **Printed:** 23-Jan-09

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Organic Vapor/Acid Gas Cartridges	$21.70	each		$ -	
Scott SKA PaK	$1,687.00	each		$ -	
SF Chem Overboots	$26.70	each		$ -	
Tyvek Coveralls with Hood	$8.25	each		$ -	
65 Gallon Response Kit	$701.00	each		$ -	
Subtotal H & S				$ -	
TRAVEL					
Airfare Boston - Syracuse	$557.20	each		$ -	
Airfare Boston - Huntsville	$500.00	each		$ -	
Travel - Booking Fee	$15.00	each		$ -	
Airfare	$600.00	each		$ -	
Airfare	$500.00	each		$ -	
Subsist 1 -Romulus Waterloo	$146.00	each		$ -	
Subsist 2	$123.00	each		$ -	
Subsist 3	$35.25	each		$ -	
Airport Parking - Logan	$24.00	each		$ -	
SUV	$516.60	each		$ -	
Auto Rental	$384.77	each		$ -	
Tolls - Mass Turnpike RT	$13.70	each		$ -	
Tolls- NY Thruway RT	$19.20	each		$ -	
Gasoline (average Waterloo)	$1.83	each		$ -	
Diesel Fuel (Average Waterloo)	$2.79	each		$ -	
Subtotal Travel				$ -	
IN-HOUSE SERVICES					
Trumansberg Phone (SEDA Office Phone)	$194.42	each		$ -	
Teleconferencing (meetingplace)	$0.00	each		$ -	
FED Exp Package (4 lbs)	$31.71	each	48	$ 1,522	
FED Exp Package (10 lbs)	$39.94	each	9	$ 359	
FED Exp Package (20 lbs)	$51.87	each		$ -	
FED Exp Package (70 lbs)	$260.26	each		$ -	
FED Exp Package (10 lbs)	$39.94	each		$ -	
Mail 8 oz first class	$2.02	each		$ -	
Mail 4-lb pack	$4.80	each		$ -	
Mail letters	$0.54	each	24	$ 13	
Shipping	$119.30	each		$ -	
Subtotal Services				$ 1,895	
REPRODUCTION					
Compact Discs (50 pack)	$6.99	each	2	$ 14	
Jewel Cases (standard, 25 case)	$9.99	each	3	$ 30	
Blueline repro	$1.00	each		$ -	
Cronoflex Prod	$5.50	each		$ -	
3-ring binders (1.5 inch)	$7.50	each		$ -	
3-ring binders (3 inch)	$10.82	each	60	$ 649	
Color Copies-Large Maps	$12.50	each		$ -	
Subtotal Reproduction				$ 693	
SUBCONTRACTORS					
Radiological Work Plan (Task 1)	$8,713.60	each		$ -	
Background Sampling (Radioactivity)	$2,362.50	each		$ -	
Soil Waste Characterization Sampling	$29,242.50	each		$ -	
Wastewater Characterization Sampling	$1,090.00	each		$ -	
Imported Fill Characterization	$905.00	each		$ -	
Radiological Onsite RP/HP Mob/Demob	$6,594.10	each		$ -	
Radiological Onsite RP/HP support	$8,211.14	each		$ -	
Radiological Consultant (Site Visit)	$6,394.67	each		$ -	
Excavation Subcontractor (Task 2.1)	$283,160.00	each		$ -	
Disposal Subcontractor (Task 2.2)	$230,960.00	each		$ -	

Client:	**U.S. Army Corps of Engineers**		**Parsons**
			Task 4
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**		**Removal Completion Report**
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803**		
	Firm Fixed Price	**Printed:**	**23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each		$ -	
Radiological Report (Task 4)	$26,065.49	each	1	$ 26,065	
RCRA Decontamination (powerwash)	$9,220.00	each		$ -	
RCRA Decontamination (steam cleaning)	$7,380.00	each		$ -	
Lead Paint Samples	$270.00	each		$ -	
Waste Water Samples	$1,780.00	each		$ -	
Rinseate Samples	$1,650.00	each		$ -	
Subtotal Subcontractor				**$ 26,065**	
SUBTOTAL LABOR (No FCCM)				**$ 51,277**	
Fee on Direct Labor			**6.0%**	$ 3,077	
SUBTOTAL ODCs				**$ 2,588**	
Fee on ODCs			**6.0%**	$ 155	
SUBTOTAL SUB				**$ 26,065**	
Fee on Subcontractor			**3.0%**	$ 782	
TASK TOTAL				**$ 84,051**	
TASK TOTAL (does not include FCCM or fixed fee)				**$ 79,930**	

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803

Parsons
Task 5
Project Management
12 months
22 hours/month

Firm Fixed Price — **Printed:** 23-Jan-09

		Unit Cost 02/09-01/10	Units	Quantity	Cost
Classification					
1M23C	PROJECT MANAGER, SENIOR	$ 64.54	/hour	4	$ 258
1P22B	PROCUREMENT MANAGER, SR	$ 58.97	/hour	4	$ 236
1M22C	PROJECT MANAGER	$ 55.62	/hour	72	$ 4,005
1L21C	CONTRACT ADMINISTRATOR,PRIN	$ 49.69	/hour	24	$ 1,193
1C21G	SAFETY MANAGER	$ 48.61	/hour	8	$ 389
1C20B	CONSTR SUPERINTENDENT,AREA	$ 45.52	/hour		$ -
1S21A	SCIENTIST, PROJECT	$ 49.18	/hour		$ -
1Q19A	QUALITY ASSURANCE ENGR,SR	$ 42.25	/hour		$ -
1T19A	TECHNICAL SPECIALIST, SR	$ 41.29	/hour	8	$ 330
1S19B	GEOLOGIST, PRINCIPAL	$ 40.26	/hour		$ -
1R18A	PROJ CTRL ENGR/SPEC, SR	$ 39.15	/hour	20	$ 783
1E18A	ENGINEER II	$ 36.44	/hour	48	$ 1,749
1L17C	CONTRACT ADMINISTRATOR	$ 30.69	/hour	16	$ 491
0D17D	DESIGNER	$ 30.20	/hour		$ -
1E16A	ENGINEER, ASSOCIATE	$ 26.09	/hour		$ -
0A16A	ADMINISTRATIVE ASST,SR	$ 25.77	/hour	36	$ 928
0F15E	BILLING COORDINATOR	$ 22.74	/hour	24	$ 546
0	0	$ -	/hour		$ -
					$ -
Tot Hours/Labor Cost				264	$ 10,907

Markup on Labor:		
Parsons I&T	125.18%	$ 13,653
FCCM	0.47%	$ 51
Burdened Labor:		$ 24,612

OTHER DIRECT COSTS

MATERIALS AND SUPPLIES				
Field Notebook	$6.95	each	$ -	
Braided Nylon Rope	$4.25	each	$ -	
Decon Equip	$18.00	each	$ -	
55 gal drums	$64.50	each	$ -	
Ice	$1.00	each	$ -	
Duct Tape (dozen)	$72.00	each	$ -	
Survey Stake/Flag	$48.50	each	$ -	
Methanol (Optima)	$73.90	each	$ -	
Heating Oil	$3.50	each	500 $ 1,750	for a month of heat
Water (HPLC Grade)	$50.70	each	$ -	
Survey Stakes (100 budles)	$45.90	each	$ -	
Subtotal Matls & Supplies			$ 1,750	
EQUIPMENT RENTAL				
Isobutylene Calibration Gas	$58.50	each	$ -	
Photvac 2020 PID	$725.00	month	$ -	
Aerosol Monitor	$1,200.00	month	$ -	
Trimbnle R8 GNSS GPS system	$1,295.00	week	$ -	
Water Level Indicator	$50.00	each	$ -	
Hach colorimeter	$150.00	each	$ -	
Flow thru pH/cond meter	$300.00	each	$ -	
GPS Unit	$1,295.00	each	$ -	
Turbidimeter	$80.00	each	$ -	
Mobile Phone	$150.00	each	$ -	
Bladder pump	$150.00	each	$ -	
3.2 kw generator	$135.00	week	$ -	
Subtotal Rental			$ -	
HEALTH & SAFETY EQUIPMENT				
MSA Full Face Respirators	$239.00	each	$ -	
Viton Gloves	$59.60	each	$ -	
Kevlar Gloves	$8.30	each	$ -	
Latex Gloves	$12.00	each	$ -	
Organic Vapor/Acid Gas Cartridges	$21.70	each	$ -	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 5	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Project Management**	
		12 months	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803**	**22 hours/month**	

Firm Fixed Price **Printed: 23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity	Cost	
Scott SKA PaK	$1,687.00	each		$ -	
SF Chem Overboots	$26.70	each		$ -	
Tyvek Coveralls with Hood	$8.25	each		$ -	
65 Gallon Response Kit	$701.00	each		$ -	
Subtotal H & S				**$ -**	
TRAVEL					
Airfare Boston - Syracuse	$557.20	each	4	$ 2,229	Assume 2 meetings - 2
Airfare Boston - Huntsville	$500.00	each		$ -	
Travel - Booking Fee	$15.00	each	4	$ 60	
Airfare	$600.00	each		$ -	
Airfare	$500.00	each		$ -	
Subsist 1 -Romulus Waterloo	$146.00	each	12	$ 1,752	Assumes 3 days per m
Subsist 2	$123.00	each		$ -	
Subsist 3	$35.25	each		$ -	
Airport Parking - Logan	$24.00	each	18	$ 432	assume parking for 2 p
SUV	$516.60	each		$ -	
Auto Rental	$384.77	each	2	$ 770	
Tolls - Mass Turnpike RT	$13.70	each		$ -	
Tolls- NY Thruway RT	$19.20	each	2	$ 38	
Gasoline (average Waterloo)	$1.83	each	20	$ 37	
Diesel Fuel (Average Waterloo)	$2.79	each		$ -	
Subtotal Travel				**$ 5,317**	
IN-HOUSE SERVICES					
Trumansberg Phone (SEDA Office Phone)	$194.42	each	2	$ 389	Trumansburg
Teleconferencing (meetingplace)	$0.00	each	0	$ -	
FED Exp Package (4 lbs)	$31.71	each	0	$ -	
FED Exp Package (10 lbs)	$39.94	each	0	$ -	
FED Exp Package (20 lbs)	$51.87	each	0	$ -	
FED Exp Package (70 lbs)	$260.26	each	0	$ -	
FED Exp Package (10 lbs)	$39.94	each	0	$ -	
Mail 8 oz first class	$2.02	each	12	$ 24	
Mail 4-lb pack	$4.80	each	0	$ -	
Mail letters	$0.54	each	0	$ -	
Shipping	$119.30	each	2	$ 239	
Subtotal Services				**$ 652**	
REPRODUCTION					
Compact Discs (50 pack)	$6.99	each	0	$ -	
Jewel Cases (standard, 25 case)	$9.99	each	0	$ -	
Blueline repro	$1.00	each	0	$ -	
Cronoflex Prod	$5.50	each	0	$ -	
3-ring binders (1.5 inch)	$7.50	each	0	$ -	
3-ring binders (3 inch)	$10.82	each	0	$ -	
Color Copies-Large Maps	$12.50	each	0	$ -	
Subtotal Reproduction				**$ -**	
SUBCONTRACTORS					
Radiological Work Plan (Task 1)	$8,713.60	each	0	$ -	
Background Sampling (Radioactivity)	$2,362.50	each	0	$ -	
Soil Waste Characterization Sampling	$29,242.50	each	0	$ -	
Wastewater Characterization Sampling	$1,090.00	each	0	$ -	
Imported Fill Characterization	$905.00	each	0	$ -	
Radiological Onsite RP/HP Mob/Demob	$6,594.10	each	0	$ -	
Radiological Onsite RP/HP support	$8,211.14	each	0	$ -	
Radiological Consultant (Site Visit)	$6,394.67	each	0	$ -	
Excavation Subcontractor (Task 2.1)	$283,160.00	each	0	$ -	
Disposal Subcontractor (Task 2.2)	$230,960.00	each	0	$ -	
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each	0	$ -	
Radiological Report (Task 4)	$26,065.49	each	0	$ -	
RCRA Decontamination (powerwash)	$9,220.00	each	0	$ -	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Task 5	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Project Management**	
		12 months	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803**	**22 hours/month**	

Firm Fixed Price **Printed:** **23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity		Cost
RCRA Decontamination (steam cleaning)	$7,380.00	each	0	$	-
Lead Paint Samples	$270.00	each	0	$	-
Waste Water Samples	$1,780.00	each	0	$	-
Rinseate Samples	$1,650.00	each	0	$	-
Subtotal Subcontractor				$	-
SUBTOTAL LABOR (No FCCM)				$	24,561
Fee on Direct Labor			6.0%	$	1,474
SUBTOTAL ODCs				$	7,719
Fee on ODCs			6.0%	$	463
SUBTOTAL SUB				$	-
Fee on Subcontractor			3.0%	$	-
TASK TOTAL				$	34,267
TASK TOTAL (does not include FCCM or fixed fee)				$	32,279

Client:	**U.S. Army Corps of Engineers**		**Parsons**
			Optional Task 1
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**		**Summary Sheet**
			Supporting Data Format
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803**		
	FIRM FIXED PRICE		**Printed:** **01/23/09**

(1)	**DIRECT LABOR COST SUMMARY (J)**			
	TASK	**HOURS (J)**		**AMOUNT (F)**
	Optional Task 1 RCRA Closure of Building 803	328		$ 12,003
(2)	**DIRECT LABOR COST (F)**	328		$12,003
(3)	**OVERHEAD ON DIRECT LABOR (F)**			
(3a)	**Parsons I&T**		125.18%	$ 15,026
(3b)	**FCCM**		0.47%	$ 56
(4)	**MATERIALS and SUPPLIES (J)**			$ 2,378
(5)	**TRAVEL (J)**			$ 1,445
(6)	**OTHERS (J)**			$ 3,952
(7)	**SUBTOTAL ITEMS 2, 3a, 4, 5,& 6**			$34,804
(8)	**SUBCONTRACTOR (J)**			$ 20,300
		PROJECT TOTAL 3b,7,8		$55,160
(9)	**PROFIT or FEE (F)**			
	6% of Line 7			$2,088
	3% of Line 8			$609
		TOTAL ESTIMATE		$57,857

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**Summary Sheet**	
		Supporting Data Format	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12) and RCRA Closure of Building 803**		
	Firm Fixed Price	**Printed:**	**23-Jan-09**

TASK		AMOUNT	SUBCONTRACTOR	AMT W/O SUBCONTRACTOR	FEE	FCCM	TOTAL
Optional Task 1	RCRA Closure of Building 803	55,104.10	$ 20,300	$34,804	$2,697	$ 56	$57,857
TOTAL		$55,104	$20,300	$34,804	$2,697	$56	
PROJECT TOTAL							**$57,857**

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)

Parsons
Optional Task 1
RCRA Closure of Building 803

Printed: 23-Jan-09

			Unit Cost 02/09-01/10	Units	Quantity		Cost	Notes
Classification								
1M23C	PROJECT MANAGER, SENIOR		$64.54	/hour	16	$	1,033	
1P22B	PROCUREMENT MANAGER, SR		$58.97	/hour		$	-	
1M22C	PROJECT MANAGER		$55.62	/hour	8	$	445	
1L21C	CONTRACT ADMINISTRATOR,PRIN		$49.69	/hour		$	-	
1C21G	SAFETY MANAGER		$48.61	/hour		$	-	
1C20B	CONSTR SUPERINTENDENT,AREA		$45.52	/hour		$	-	
1S21A	SCIENTIST, PROJECT		$49.18	/hour		$	-	
1Q19A	QUALITY ASSURANCE ENGR,SR		$42.25	/hour		$	-	
1T19A	TECHNICAL SPECIALIST, SR		$41.29	/hour	4	$	165	
1S19B	GEOLOGIST, PRINCIPAL		$40.26	/hour	80	$	3,221	
1R18A	PROJ CTRL ENGR/SPEC, SR		$39.15	/hour		$	-	
1E18A	ENGINEER II		$36.44	/hour	120	$	4,373	
1L17C	CONTRACT ADMINISTRATOR		$30.69	/hour		$	-	
0D17D	DESIGNER		$30.20	/hour	40	$	1,208	
1E16A	ENGINEER, ASSOCIATE		$26.09	/hour	40	$	1,044	
0A16A	ADMINISTRATIVE ASST,SR		$25.77	/hour	20	$	515	
0F15E	BILLING COORDINATOR		$22.74	/hour		$	-	
$0.00		$0.00	$0.00	/hour		$	-	
$0.00		$0.00	$0.00			$	-	
Tot Hours/Labor Cost					328	$	12,003	
				Markup on Labor:				
				Parsons I&T	125.18%	$	15,026	
				FCCM	0.47%	$	56	
					Burdened Labor:	$	**27,085**	
OTHER DIRECT COSTS								
MATERIALS AND SUPPLIES								
	Field Notebook		$6.95	each	2	$	14	
	Braided Nylon Rope		$4.25	each		$	-	
	Decon Equip		$18.00	each	2	$	36	
	55 gal drums		$64.50	each	30	$	1,935	
	Ice		$1.00	each		$	-	
	Duct Tape (dozen)		$72.00	each	2	$	144	
	Survey Stake/Flag		$48.50	each		$	-	
	Methanol (Optima)		$73.90	each	2	$	148	
	Heating Oil		$3.50	each		$	-	
	Water (HPLC Grade)		$50.70	each	2	$	101	
	Survey Stakes (100 budles)		$45.90	each		$	-	
		Subtotal Matls & Supplies				$	2,378	
EQUIPMENT RENTAL								
	Isobutylene Calibration Gas		$58.50	each		$	-	
	Photvac 2020 PID		$725.00	month		$	-	
	Aerosol Monitor		$1,200.00	month		$	-	
	Trimbnle R8 GNSS GPS system		$1,295.00	week		$	-	
	Water Level Indicator		$50.00	each		$	-	
	Hach colorimeter		$150.00	each		$	-	
	Flow thru pH/cond meter		$300.00	each		$	-	
	GPS Unit		$1,295.00	each		$	-	
	Turbidimeter		$80.00	each		$	-	
	Mobile Phone		$150.00	each		$	-	
	Bladder pump		$150.00	each		$	-	
	3.2 kw generator		$135.00	week	2	$	270	
		Subtotal Rental				$	270	

Client: U.S. Army Corps of Engineers

Contract : RFP W912DY-08-D-0003, Task Order 0003

Project: Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)

Parsons
Optional Task 1
RCRA Closure of Building 803

Printed: 23-Jan-09

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
HEALTH & SAFETY EQUIPMENT					
MSA Full Face Respirators	$239.00	each		$ -	
Viton Gloves	$59.60	each		$ -	
Kevlar Gloves	$8.30	each		$ -	
Latex Gloves	$12.00	each	4	$ 48	
Organic Vapor/Acid Gas Cartridges	$21.70	each	5	$ 109	
Scott SKA PaK	$1,687.00	each		$ -	
SF Chem Overboots	$26.70	each	1	$ 27	
Tyvek Coveralls with Hood	$8.25	each	10	$ 83	
65 Gallon Response Kit	$701.00	each		$ -	
Subtotal H & S				$ 266	
TRAVEL					
Airfare Boston - Syracuse	$557.20	each		$ -	
Airfare Boston - Huntsville	$500.00	each		$ -	
Travel - Booking Fee	$15.00	each	1	$ 15	
Airfare	$600.00	each		$ -	
Airfare	$500.00	each		$ -	
Subsist 1 -Romulus Waterloo	$146.00	each	5	$ 730	
Subsist 2	$123.00	each		$ -	
Subsist 3	$35.25	each		$ -	
Airport Parking - Logan	$24.00	each		$ -	
SUV	$516.60	each	1	$ 517	
Auto Rental	$384.77	each		$ -	
Tolls - Mass Turnpike RT	$13.70	each		$ -	
Tolls- NY Thruway RT	$19.20	each		$ -	
Gasoline (average Waterloo)	$1.83	each	100	$ 183	
Diesel Fuel (Average Waterloo)	$2.79	each		$ -	
Subtotal Travel				$ 1,445	
IN-HOUSE SERVICES					
Trumansberg Phone (SEDA Office Phone)	$194.42	each		$ -	
Teleconferencing (meetingplace)	$0.00	each		$ -	
FED Exp Package (4 lbs)	$31.71	each	48	$ 1,522	
FED Exp Package (10 lbs)	$39.94	each	9	$ 359	
FED Exp Package (20 lbs)	$51.87	each		$ -	
FED Exp Package (70 lbs)	$260.26	each	4	$ 1,041	
FED Exp Package (10 lbs)	$39.94	each		$ -	
Mail 8 oz first class	$2.02	each		$ -	
Mail 4-lb pack	$4.80	each		$ -	
Mail letters	$0.54	each		$ -	
Shipping	$119.30	each		$ -	
Subtotal Services				$ 2,923	
REPRODUCTION					
Compact Discs (50 pack)	$6.99	each	2	$ 14	
Jewel Cases (standard, 25 case)	$9.99	each	3	$ 30	
Blueline repro	$1.00	each		$ -	
Cronoflex Prod	$5.50	each		$ -	
3-ring binders (1.5 inch)	$7.50	each	60	$ 450	
3-ring binders (3 inch)	$10.82	each		$ -	
Color Copies-Large Maps	$12.50	each		$ -	
Subtotal Reproduction				$ 494	

Client:	**U.S. Army Corps of Engineers**	**Parsons**	
		Optional Task 1	
Contract :	**RFP W912DY-08-D-0003, Task Order 0003**	**RCRA Closure of Building 803**	
Project:	**Non-Time Critical Removal Action at the Radiological Sites (SEAD-12)**		
		Printed:	**23-Jan-09**

	Unit Cost 02/09-01/10	Units	Quantity	Cost	Notes
SUBCONTRACTORS					
Radiological Work Plan (Task 1)	$8,713.60	each		$ -	
Background Sampling (Radioactivity)	$2,362.50	each		$ -	
Soil Waste Characterization Sampling	$29,242.50	each		$ -	
Wastewater Characterization Sampling	$1,090.00	each		$ -	
Imported Fill Characterization	$905.00	each		$ -	
Radiological Onsite RP/HP Mob/Demob	$6,594.10	each		$ -	
Radiological Onsite RP/HP support	$8,211.14	each		$ -	
Radiological Consultant (Site Visit)	$6,394.67	each		$ -	
Excavation Subcontractor (Task 2.1)	$283,160.00	each		$ -	
Disposal Subcontractor (Task 2.2)	$230,960.00	each		$ -	
Site Restoration Costs (Tsk 2.3 Excavation Contractor)	$104,010.00	each		$ -	
Radiological Report (Task 4)	$26,065.49	each		$ -	
RCRA Decontamination (powerwash)	$9,220.00	each	1	$ 9,220	
RCRA Decontamination (steam cleaning)	$7,380.00	each	1	$ 7,380	
Lead Paint Samples	$270.00	each	1	$ 270	
Waste Water Samples	$1,780.00	each	1	$ 1,780	
Rinseate Samples	$1,650.00	each	1	$ 1,650	
Subtotal Subcontractor				$ 20,300	
SUBTOTAL LABOR (No FCCM)				$ 27,029	
Fee on Direct Labor			6.0%	$ 1,622	
SUBTOTAL ODCs				$ 7,775	
Fee on ODCs			6.0%	$ 466	
SUBTOTAL SUB				$ 20,300	
Fee on Subcontractor			3.0%	$ 609	
TASK TOTAL				$ 57,857	
TASK TOTAL (does not include FCCM or fixed fee)				$ 55,104	

Parsons'

Subcontractor Backup

Non-time Critical Removal Action at Radiological Sites (SEAD-12)

Seneca Army Depot Activity

Project No. W912DY-08-D-0003

Laboratory Cost Comparison
Non-Time Critical Removal Action at Radiological Sites (SEAD-12)
Seneca Army Depot Activity

Analytical Method	Quantity	CAS	ChemTech	Katahdin	Test America
Soil					
TCL VOCs (8260B)	1	$80.00	$85.00	$100.00	$75.00
TCL SVOCs (8270C)	1	$145.00	$175.00	$150.00	$185.00
TCL Pesticides (8081A)	1	$115.00	$62.50	$110.00	$90.00
TCL PCBs (8082)	1	$75.00	$62.50	$80.00	$60.00
TAL Metals (6010B and 7471A)	1	$105.00	$100.00	$90.00	$90.00
TCLP Metals (6010B and 7471A)	1	$105.00	$100.00	$150.00	$80.00
TCLP VOCs	1	$125.00	$110.00	$125.00	$115.00
TCLP SVOCs	1	$175.00	$200.00	$215.00	$240.00
pH	1	$10.00	$10.00	$10.00	$5.00
Reactivity	1	$75.00	$40.00	$70.00	$60.00
Flashpoint	1	$30.00	$28.00	$30.00	$20.00
Paint Filter	1	$15.00	$24.00	$20.00	$15.00
Data Deliverable	1	$0.00		$0.00	$50.00
21 business day Turnaround Time (TAT)		Standard		Standard	Standard
15 business day TAT		Standard			Standard
10 business day TAT		Standard			Standard
5 business day TAT		25%			30%
3 business day TAT		50%			60%
2 business day TAT	1	75%			75%
Subtotal		$1,055.00	$997.00	$1,150.00	$1,085.00

Analytical Method	Quantity	CAS	ChemTech	Katahdin	Test America
Water					
TCL VOCs (8260B)	1	$80.00	$85.00	$70.00	$75.00
TCL SVOCs (8270C)	1	$145.00	$175.00	$150.00	$185.00
TCL Pesticides (8081A)	1	$115.00	$62.50	$110.00	$90.00
TCL PCBs (8082)	1	$75.00	$62.50	$80.00	$60.00
TAL Metals (6010B and 7471A)	1	$105.00	$100.00	$90.00	$90.00
TCLP Metals (6010B and 7471A)	1	$105.00	$100.00	$150.00	$90.00
TCLP VOCs	1	$125.00	$110.00	$125.00	$115.00
TCLP SVOCs	1	$175.00	$200.00	$215.00	$240.00
pH	1	$10.00	$10.00	$10.00	$5.00
Reactivity	1	$75.00	$40.00	$70.00	$60.00
Flashpoint	1	$30.00	$28.00	$30.00	$20.00
Data Deliverable	1	$0.00	$0.00	$0.00	$50.00
Accelerated TATs (see above)	1	See above	See above	See above	See above
Subtotal		$1,040.00	$973.00	$1,100.00	$1,080.00

Analytical Method		Eberline Services	GEL
Soil			
Radioactivity - gross Alpha/Beta	1	$65.00	$112.50
Radioactivity - Gamma Spectroscopy	1	$100.00	$180.00
Radioactivity - Tritium	1	$65.00	$112.50
Radioactivity - Ra-226 by Emanation	1	$120.00	$180.00
Radioactivity - Ra-228	1	$120.00	$180.00
Radioactivity - Total Uranium	1	$65.00	$75.00
Subtotal		$535.00	$840.00

Analytical Method		Eberline Services	GEL
Water			
Radioactivity - gross Alpha/Beta	1	$65.00	$97.50
Radioactivity - Gamma Spectroscopy	1	$100.00	$165.00
Radioactivity - Tritium	1	$65.00	$97.50
Radioactivity - Ra-226 by Emanation	1	$120.00	$165.00
Radioactivity - Ra-228	1	$120.00	$165.00
Radioactivity - Total Uranium	1	$65.00	$60.00
Subtotal		$535.00	$750.00

- reflects the lab selected for cost estimate

Sampling Requirement for Background Radiological Samples

Sample Matrix	Sample Type	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Estimate No. of Field Sample	No. of QA/QC Samples*	Purpose	Unit Cost	Total
Reference Area (Background) Soil samples								
Soil	Grab	Radioactivity - Gross Alpha & Beta	USEPA 900.0M	19	2	For establishing baseline data	$112.50	$2,362.50
							Total	**$2,362.50**

* - QA/QC Samples collected and analyzed at frequencies of one replicate/duplicate for each 20 field samples per sample delivery group (SDG), one (sampling equipment) rinsate blank per day per media (for non-disposable sampling equipment only, one trip blank (VOCs only). No QA/QC samples for disposal characterization.

Sampling Requirement for Disposal Characterization Samples

Sample Matrix	Sample Type	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Estimate No. of Field Sample Analyzed	No. of QA/QC Samples*	Purpose	Unit Cost	Rush TAT Cost*	Total
Disposal Characterization Anlyses - Soil and Debris:									
Soil	Grab	TCLP VOCs	USEPA 8260B	6	0	1 sample/700 CY Total Volume = 3,800 CY	$115.00	$143.75	$862.50
	Composite	TCLP SVOCs	USEPA 8270C	6	0		$240.00	$300.00	$1,800.00
		PCB/Pesticides	USEPA 8082/8081A	6	0		$150.00	$187.50	$1,125.00
		TCLP Metals	USEPA 6010B/7471A	6	0		$90.00	$112.50	$675.00
		Paint Filter Test	USEPA 9095	6	0		$15.00	$18.75	$112.50
		pH	USEPA 9045	6	0		$5.00	$6.25	$37.50
		Flashpoint	USEPA 1010	6	0		$20.00	$25.00	$150.00
		Reactivity	SW846/Section 7.3.1	6	0		$60.00	$75.00	$450.00
	Composite	Radioactivity - Gross Alpha & Beta	USEPA 900.0M	19	0	1 sample/200 CY Total Volume = 3,800 CY	$112.50	$225.00	$4,275.00
		Radioactivity - Gamma Spectroscopy	USEPA 901.1M	19	0		$180.00	$360.00	$6,840.00
		Radioactivity - Tritium	USEPA 906.0M	19	0		$112.50	$225.00	$4,275.00
Debris	Grab	TCLP Metals	USEPA 6010B/7471A	3	0	1 sample/700 CY Total Volume = 2,000 CY	$90.00	$180.00	$540.00
		Radioactivity - Gross Alpha & Beta	USEPA 900.0M	10	0	1 sample/200 CY Total Volume = 2,000 CY	$112.50	$225.00	$2,250.00
		Radioactivity - Gamma Spectroscopy	USEPA 901.1M	10	0		$180.00	$360.00	$3,600.00
		Radioactivity - Tritium	USEPA 906.0M	10	0		$112.50	$225.00	$2,250.00
								Total	**$29,242.50**

Sample Matrix	Sample Type	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Estimate No. of Field Sample	No. of QA/QC Samples*	Purpose	Unit Cost	Total
Wastewater								
Water	Grab	TCL VOCs	USEPA8260B	1	0	Waste disposal characterization	$75.00	$75.00
		TCL SVOCs	USEPA 8270C	1	0		$185.00	$185.00
		PCB/Pesticides	USEPA 8082/8081A	1	0		$150.00	$150.00
		TAL Metals	USEPA 6000/7000	1	0		$90.00	$90.00
		pH	USEPA 150.1	1	0		$5.00	$5.00
		Radioactivity - Gross Alpha/Beta	USEPA 900.0	1	0		$97.50	$97.50
		Radioactivity - Ra-226 by Emanation	USEPA 903.1M	1	0		$165.00	$165.00
		Radioactivity - Ra-228	USEPA 904.0M	1	0		$165.00	$165.00
		Radioactivity - Total Uranium	ASTM D 5174 Modified	1	0		$60.00	$60.00
		Radioactivity - Tritium	USEPA 906.0M	1	0		$97.50	$97.50
							Total	**$1,090.00**

Notes:
* - Assume 5 day TAT for all analysis except Radioactive for which TAT is 7 days.

Sampling Requirement for Imported Fill Characterization

Sample Matrix	Sample Type	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Estimate No. of Field Sample Analyzed	No. of QA/QC Samples*	Purpose	Unit Cost	Total
Imported Fill Characterization								
Soil	Grab	TCL VOCs	USEPA 8260B	1	0	Backfill material characterization	$75.00	$75.00
		TCL SVOCs	USEPA 8270C	1	0		$185.00	$185.00
		PCBs/Pesticides	USEPA 8082/8081A	1	0		$150.00	$150.00
		TAL Metals	USEPA 6010B/7471A	1	0		$90.00	$90.00
		Radioactivity - Gross Alpha/Beta	USEPA 900.0M	1	0		$112.50	$112.50
		Radioactivity - Gamma Spectroscopy with Rn-222 Ingrowth	USEPA 901.0M	1	0		$180.00	$180.00
		Radioacitvity - Tritium	USEPA 906.0M	1	0		$112.50	$112.50
							Total	**$905.00**

Sampling Requirements for Building 803 Decontamination Samples

Sample Matrix	Sample Type	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Estimate No. of Field Sample Analyzed	No. of QA/QC Samples*	Purpose	Unit Cost	Total
Disposal Characterization Anlyses - Paint and Debris:								
Solid	Grab	TCLP Metals	USEPA 6010B/7471A	3	0	1 Sample/Drum	$105.00	$315.00
							Total	**$315.00**

Sample Matrix	Sample Type	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Estimate No. of Field Sample	No. of QA/QC Samples*	Purpose	Unit Cost	Total
Wastewater								
Water	**Grab**	TCL VOCs	USEPA8260B	4	0	Waste disposal characterization	$80.00	$320.00
		TCL SVOCs	USEPA 8270C	4	0		$145.00	$580.00
		PCB/Pesticides	USEPA 8082/8081A	4	0		$115.00	$460.00
		TAL Metals	USEPA 6000/7000	4	0		$105.00	$420.00
		pH	USEPA 150.1	4	0		$10.00	$40.00
							Total	**$1,820.00**

Sample Matrix	Sample Type	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Estimate No. of Field Sample	No. of QA/QC Samples*	Purpose	Unit Cost	Total
Rinseate Confirmation Samples - Round 1 +2								
Water	Grab	TCL VOCs	USEPA8260B	14	8	Rinseate Confirmation Samples	$80.00	$1,760.00
							Total	**$1,760.00**

Unit Cost for Laboratory Analysis

Sample Matrix	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Unit Cost
Soil	TCL VOCs	USEPA 8260B	$80.00
	TCL SVOCs	USEPA 8270C	$145.00
	TCL Pesticides	USEPA 8081A	$115.00
	TCL PCBs	USEPA 8082	$75.00
	TAL Metals	USEPA 6010B/7471A	$105.00
	TCLP Metals	USEPA 6010B/7471A	$105.00
	TCLP VOCs	USEPA 8260B	$125.00
	TCLP SVOCs	USEPA 8270C	$175.00
	pH	USEPA 9045	$10.00
	Reactivity	SW846/Section 7.3.1	$75.00
	Flashpoint	USEPA 1010	$30.00
	Paint Filter Test	USEPA 9095	$15.00
	Radioactivity - gross Alpha/Beta	USEPA 900.0M	$112.50
	Radioactivity - Gamma Spectroscopy	USEPA 901.1M	$180.00
	Radioactivity - Tritium	USEPA 906.0M	$112.50
	Radioactivity - Ra-226 by Emanation	USEPA 903.1M	$180.00
	Radioactivity - Ra-228	USEPA 904.0M	$180.00
	Radioactivity - Total Uranium	ASTM D 5174 Modified	$75.00

Sample Matrix	Field Screening/Laboratory Analysis Parameter(s)	Laboratory Ananlytical Methods	Unit Cost
Water	TCL VOCs	USEPA 8260B	$80.00
	TCL SVOCs	USEPA 8270C	$145.00
	TCL Pesticides	USEPA 8081A	$115.00
	TCL PCBs	USEPA 8082	$75.00
	TAL Metals	USEPA 6010B/7471A	$105.00
	TCLP Metals	USEPA 6010B/7471A	$105.00
	TCLP VOCs	USEPA 8260B	$125.00
	TCLP SVOCs	USEPA 8270C	$175.00
	pH	USEPA 9045	$10.00
	Reactivity	SW846/Section 7.3.1	$75.00
	Flashpoint	USEPA 1010	$30.00
	Radioactivity - gross Alpha/Beta	USEPA 900.0M	$97.50
	Radioactivity - Gamma Spectroscopy	USEPA 901.1M	$165.00
	Radioactivity - Tritium	USEPA 906.0M	$97.50
	Radioactivity - Ra-226 by Emanation	USEPA 903.1M	$165.00
	Radioactivity - Ra-228	USEPA 904.0M	$165.00
	Radioactivity - Total Uranium	ASTM D 5174 Modified	$60.00

Note:
- All radiological analyses will be perfomed by a different laboratory than the other chemical analyses.

Task 2.1 - Excavation Cost Estimate
Non-Time Critical Removal Action at Radiological Sites (SEAD-12)
Seneca Army Depot Activity

SEAD 12	January 15, 2009				
Item	**Quan.**	**Unit**	**Unit Price**	**Total**	**Budget Estimate**
Mobilization					
Standard Loads	2	ea	$630.00		$ 1,260.00
Permitted Loads	5	ea	$800.00		$ 4,000.00
Silt Fence	6,000	lf	$1.60		$ 9,600.00
Hay Bale ditch checks	6	ea	$100.00		$ 600.00
Construction Entrance- includes culvert	1	ea	$1,850.00		$ 1,850.00
Shoulder reinforcement 20'wx1' deep over fabric	200	lf	$39.00		$ 7,800.00
Plastic for stockpiles	6	rolls	$300.00		$ 1,800.00
Mowing	3	Ac	$300.00		$ 900.00
security fence (4' orange at perimeter)	2,500	lf	$1.00		$ 2,500.00
Excavation	21	day	**$ 4,350**		$ 91,350.00
estimated quantity	14,000	cy			
Excavator Cat 325 or =	1		$750.00	$ 750.00	
Off road trucks 25 tn	2		$850.00	$ 1,700.00	
operators	1		$750.00	$ 750.00	
teamster	2		$575.00	$ 1,150.00	
Excavation Stand by rate non-manned	3	Day	**$ 2,450**		$ 7,350.00
Screening	15	day	**$ 3,625**		$ 54,375.00
estimated quantity	6,672	cy			
Screening Plant	1		$850.00	$ 850.00	
Excavator Cat 325 or =	1		$750.00	$ 750.00	
Loader 3 cy	1		$525.00	$ 525.00	
Operators	2		$750.00	$ 1,500.00	
Screening Stand by rate non-manned	3	day	**$ 1,600**		$ 4,800.00
Classified Material Handling	20	day	**$ 2,450**		$ 49,000.00
Skid steer w/ bucket & grapple	1		$375.00	$ 375.00	
Flatbed truck	1		$750.00	$ 750.00	
Operator	1		$750.00	$ 750.00	
Teamster	1		$575.00	$ 575.00	
Classified Material Handling Stand by unmanned	2	day	**$ 1,125**		$ 2,250.00
Load out material	10	day	**$1,500.00**		$ 15,000.00
estimated quantity	3,000	cy			
Excavator Cat 325 or =	1	day	$750.00	$ 750.00	
Operator	1	day	$750.00	$ 750.00	
Water handling	21	day	**$ 225.00**		$ 4,725.00
3' Trash pump	1		$100.00	$ 100.00	
3000 gal strg tank	1		$125.00	$ 125.00	
Site Services		day			
Construction Site Supervisor For S St George Ent.	30	day	**$800.00**		$ 24,000.00
Total					**$ 283,160.00**

Task 2.2 - Disposal Cost Estimate
Non-Time Critical Removal Action at Radiological Sites (SEAD-12)
Seneca Army Depot Activity

SEAD 12	January 15, 2009				
Item	**Quan.**	**Unit**	**Unit Price**	**Total**	**Budget Estimate**
Disposal (T&D)					
Frac Tank Rental	1	/4 weeks	$6,680.00		$ 6,680.00
Water Disposal local POTW T&D	1,000	gal	$0.05		$ 50.00
Non Haz as cover 3,800 cys	5,700	tns	$23.90		$ 136,230.00
C&D Debris 2000 cys	2,000	tns	$44.00		$ 88,000.00
Total					**$ 230,960.00**

Task 2.3 - Site Restoration Cost Estimate
Non-Time Critical Removal Action at Radiological Sites (SEAD-12)
Seneca Army Depot Activity

SEAD 12	January 15, 2009				
Item	**Quan.**	**Unit**	**Unit Price**	**Total**	**Budget Estimate**
Backfill	10	**day**	**$ 5,850**		$ 58,500.00
estimated quantity (overburden)	8,200	cy			
imported fill	3,000	cy			
Excavator Cat 325 or =	1		$750.00	$ 750.00	
Off rd trucks 25 tn	2		$850.00	$ 1,700.00	
Dozer D-6 or equal	1		$750.00	$ 750.00	
Operators	2		$750.00	$ 1,500.00	
Teamsters	2		$575.00	$ 1,150.00	
imported fill	4,500	**tn**	**$7.00**		$ 31,500.00
Fine Grade,Seed & Mulch (Demaria)	10	**Ac**	$875.00		$ 8,750.00
Demob					
Standard Loads	2	**ea**	**$630.00**		$ 1,260.00
Permitted Loads	5	**ea**	**$800.00**		$ 4,000.00
Total					**$ 104,010.00**

Adams, Jeff

From: Andrews, Tom
Sent: Monday, January 05, 2009 2:27 PM
To: Adams, Jeff
Subject: SEAD 12
Attachments: Estimate 1-5-09.xlsx

Revised estimate- quantities revised as shown on third sheet (summary) in red

Thomas C Andrews PE
PARSONS
40 La Riviere Dr., Suite 350
Buffalo NY 14202
716/ 541-0730
716/ 998-7473 Cell
716/ 541-0760 Fax
Tom.andrews@parsons.com

SEAD 12	Jan 5 2009				
Item	**Quan.**	**Unit**	**Unit Price**	**Total**	**Budget Estimate**
Mobilization					
Standard Loads	2	**ea**	$630.00		$ 1,260.00
Permitted Loads	5	**ea**	$800.00		$ 4,000.00
Silt Fence	6,000	**lf**	$1.60		$ 9,600.00
Hay Bale ditch checks	6	**ea**	$100.00		$ 600.00
Construction Entrance- includes culvert	1	**ea**	$1,850.00		$ 1,850.00
Shoulder reinforcement 20'wx1' deep over fabric	200	**lf**	$39.00		$ 7,800.00
Plastic for stockpiles	6	**rolls**	$300.00		$ 1,800.00
Mowing	3	**Ac**	$300.00		$ 900.00
security fence (4' orange at perimeter)	2,500	**lf**	$1.00		$ 2,500.00
Excavation	21	**day**	**$ 4,350**		$ 91,350.00
estimated quantity	14,000	cy			
Excavator Cat 325 or =	1		$750.00	$ 750.00	
Off road trucks 25 tn	2		$850.00	$ 1,700.00	
operators	1		$750.00	$ 750.00	
teamster	2		$575.00	$ 1,150.00	
Excavation Stand by rate non-manned	3	**Day**	**$ 2,450**		$ 7,350.00
Screening	15	**day**	**$ 3,625**		$ 54,375.00
estimated quantity	6,672	cy			
Screening Plant	1		$850.00	$ 850.00	
Excavator Cat 325 or =	1		$750.00	$ 750.00	
Loader 3 cy	1		$525.00	$ 525.00	
Operators	2		$750.00	$ 1,500.00	
Screening Stand by rate non-manned	3	**day**	**$ 1,600**		$ 4,800.00

Item	Quan.	Unit	Unit Price	Total	Budget Estimate
Classified Material Handling	20	**day**	**$ 2,450**		$ 49,000.00
Skid steer w/ bucket & grapple	1		$375.00	$ 375.00	
Flatbed truck	1		$750.00	$ 750.00	
Operator	1		$750.00	$ 750.00	
Teamster	1		$575.00	$ 575.00	
Classified Material Handling Stand by unmanned	2	**day**	**$ 1,125**		$ 2,250.00
Backfill	10	**day**	**$ 5,850**		$ 58,500.00
estimated quantity (overburden)	8,200	cy			
imported fill	3,000	cy			
Excavator Cat 325 or =	1		$750.00	$ 750.00	
Off rd trucks 25 tn	2		$850.00	$ 1,700.00	
Dozer D-6 or equal	1		$750.00	$ 750.00	
Operators	2		$750.00	$ 1,500.00	
Teamsters	2		$575.00	$ 1,150.00	
imported fill	4,500	**tn**	**$7.00**		$ 31,500.00
Load out material	10	**day**	**$1,500.00**		$ 15,000.00
estimated quantity	3,000	cy			
Excavator Cat 325 or =	1	day	$750.00	$ 750.00	
operator	1	day	$750.00	$ 750.00	
Water handling	21	**day**	**$ 225.00**		$ 4,725.00
3' Trash pump	1		$100.00	$ 100.00	
3000 gal strg tank	1		$125.00	$ 125.00	
Water Analytical	6	**ea**			
Water Disposal local POTW T&D	1,000	**gal**			
Fine Grade,Seed & Mulch (Demaria)	10	**Ac**			

Item	Quan.	Unit	Unit Price	Total	Budget Estimate
Demob					
Standard Loads	2	**ea**	**$630.00**		$ 1,260.00
Permitted Loads	5	**ea**	**$800.00**		$ 4,000.00
Site Services		**day**			
Construction Site Supervisor For S St George Ent.	30	**day**	**$800.00**		$ 24,000.00
Construction Manager Parsons	40	**day**			
H&S QA/QC	40	**day**			
Perimeter Dust Monitors	30	**day**			
Analytical					
Disposal Characterization 1/700 cys 5 day TA	15	**ea**	**$919.00**		$ 13,785.00
Rad analytical 1/200 cys	44	ea			
Disposal (T&D)					
Non Haz as cover 3,800 cys	5,700	**tns**	**$23.90**		$ 136,230.00
C&D Debris 2000 cys	2,000	**tns**	**$44.00**		$ 88,000.00
Total					$ 616,435.00

			Parsons Report				RFP		Report Test Pits		
Exc. Area	Area	cut	Vol cy	debris	Debris cy	soil cy	Debris cy >4"	Soil cy	Overburden depth ft	overburden cy	soil w/debris <4"
A&B	22,500	6	5,000	10%	500	4,500	556	4,444	2.5	2,083	2,361
C total	40,200										
C-1 north	13,200	4	2,000	30%	600	1,400	667	1,333	0.5	244	1,089
C-2 south	27,000	7	7,000	10%	700	6,300	777	6,223	3.0	3,000	3,223
Total	62,700		14,000		1,800	12,200	2,000	12,000		5,328	6,672

Exc. Area	Area	Avg Cut	Vol cy	Debris >4" cy	Soil cy	Overburden depth ft	Overburden cy	Soil w/debris <4" cys
A&B	22,500	6	5,000	556	4,444	2.5	2,083	2,361
C-1 north	13,200	4	2,000	667	1,333	0.5	244	1,089
C-2 south	27,000	7	7,000	777	6,223	3.0	3,000	3,223
Total	**62,700**		**14,000**	**2,000**	**12,000**		**5,328**	**6,672**

Parsons
40 La Riviere Drive
Suite 350
Buffalo NY 14202
Cell 716/ 998-7473
Office 716/ 541-0730
Direct Dial 716/ 541-0744
Fax 716/ 541-0760
Tom.Andrews@parsons.com

Adams, Jeff

From: Andrews, Tom
Sent: Tuesday, November 25, 2008 8:54 AM
To: Adams, Jeff
Subject: FW: Q area clean up
Attachments: parsons q area clean up.doc

Quote from St George to clean up Building 803.

We can do this same time as the classified pit. Put some time in for Ben and me.

Initial cleaning 3 days

Steam Cleaning if necessary 2 days

Add disposal of debris-(non haz) and water to Seneca WWTP –

I will forward separate quote from Test America

From: kevin (St Gerge Ent.) [mailto:stgkevin@netsync.net]
Sent: Tuesday, November 25, 2008 8:39 AM
To: Andrews, Tom
Subject: Q area clean up

Proposal

S. St. George Enterprises, Inc.

202 E. Main Street PO Box 348
Fredonia, New York 14063-0348
Phone: (716) 672-2488 Fax: (716) 672-2487

Submitted To: Parsons		Phone	Fax#
Street:		Job Name Q area clean up	
City, State, and Zip:		Job Location: Seneca Army Depot	
Architect:	Date of Plan:	Attn: Tom Andrews	Job Phone: ( )- -

We Hereby submit specifications and estimates for:

1. Remove C&D/scrap and put into parsons supplied containers.
2. Scrape and clean off lead paint chips
3. Vacuum up bldg with drum vac – containers supplied by parsons
4. Power wash building interior- collect water and place in drums supplied by parsons. Vacuum up water.

$9,220.00

If test fails remob to job and steam clean building- collect water into drums supplied by parsons.

We will supply generator and water.
Work performed by 40 hr trained people wearing tyveks and respirators.

$7,380.00

Excludes:

We Propose hereby to furnish material and labor -- complete in accordance with above specifications, for the sum of:

Dollars ($).

Payment to be made as follows:
30 Days

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alterations or deviations from above specifications involving extra costs will be executed only upon written orders, and will become an extra change over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation insurance.	Authorized Signature: **Note:** This proposal may be withdrawn By us if not accepted within: 30 Days.
Acceptance of Proposal - The above price, specifications and conditions are satisfactory and hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.	Signature:
Date of Acceptance:	Signature:

October 10, 2008

Thomas Andrews P.E.
Parsons
40 La Riviere Drive
Suite 350
Buffalo, NY 14202
Fax 716-541-0760

Re: Seneca Army Depot SEAD #12

Dear Tom:

As long as we receive BUD acceptance from Seneca Meadows Landfill for the soil. Our rate to transport and dispose is $23.90/ton. The C&D will be $44.00/ton for transport and disposal (22 ton minimum payload). Our price to deliver common backfill to project will be $7.00/ton. Please feel free to call me with any questions.

Thank you.

Richard J. Riccelli

CABRERA SERVICES
RADIOLOGICAL · ENGINEERING · REMEDIATION

20 October 2008

Parsons
150 Federal Street, 4th Floor
Boston, MA 02110-1713

Attention: Mr. Jeffrey W. Adams
Project Manager

Subject: RFP for Health Physics Support for Debris Excavation and Disposal Effort within the former Special Weapons Area at the Seneca Army Depot, Romulus, New York (Cabrera Proposal 09-051 Rev 1)

Dear Mr. Adams:

In response to subject Request for Proposal (RFP) and discussions between Parsons and CABRERA on October 10th and 15th and 20th 2008, Cabrera Services, Inc. (CABRERA) is pleased to submit for your consideration the following revised proposal. Our revised proposal replaces proposal 09-051 and commits CABRERA to performing the work described in the attached Technical Approach for the firm fixed price of $103,429.00. CABRERA's Technical Approach and Pricing Assumptions, pricing workbook with Bid Sheet and Pricing Details, Resumes of proposed personnel, and Cost Backup are attached for review.

Changes to this revised proposal are limited to updated travel costs, all other parts of the proposal remain unchanged. In the original proposal, airfare, rental car, vehicle fuel, and per diem rates were estimates. In this revision we used current, quoted travel costs and per diem rates for Ithaca/Waterloo/Romulus area. Travel quote backup is attached for review. Please also note that all other direct costs are subject to G&A and profit, a table of costs compared to price for ODCs and a list of CABRERA rental rates is included in the pricing workbook.

We look forward to working with you to successfully complete this project. If you have any questions, or require additional information, please do not hesitate to contact me at 860-569-0095.

Sincerely,
Cabrera Services, Inc.

Daniel Caputo, PhD, CHP
Senior Vice President

3 Attachments
1. Technical Approach
2. Pricing Workbook
3. Resumes
4. Cost Backup

Attachment A

Technical Approach and Pricing Assumptions

Health Physics Support for Debris Excavation and Disposal Effort within the former Special Weapons Area at the Seneca Army Depot, Romulus, New York

The proposal is presented in three tasks: 1) Technical Review of Work Plans, 2) Site Work Support, and 3) Preparation and Submittal of Stand-Alone Radiological Report.

Task 1 - Technical Review of Work Plans

CABRERA will provide qualified technical staff, including a Certified Health Physicist (CHP) to provide review of project work plans, including field sampling plan, health and safety plan, construction quality control plan, and quality control plan. CABRERA will also participate in discussions pertaining to the radiological aspects of the project. It is assumed that plans from similar previous investigations at Seneca Army Depot will be used, and CABRERA's involvement will be limited to review and comment. The anticipated level of effort is 40 hours for the Project Manager/Senior CHP and an additional 20 hours total by the support staff listed below.

Resumes have been provided for the following proposed personnel:

- Project Manager/Senior CHP - John Hackett, PE, CHP
- Certified Waste Broker - Wade Fillingame
- Corporate RSO - Henry Siegrist, PE, CHP
- Senior Radiochemist - Daniel Caputo, PhD, CHP
- Junior Health Physicist - To Be Determined

Task 2 - Site Work Support

CABRERA will provide a qualified radiological technician and field radiation detection instruments to collect radiological screening data and samples of soil and/or debris for laboratory analysis during the excavation effort. In addition, CABRERA will provide technical support from senior staff, including a Certified Health Physicist, to oversee the collection of radiological constituent data.

For this task, weekly rates have been provided for both the field technician and the office support. The field technician weekly rate includes the rental of the following instrumentation/equipment:

- Alpha Spectra FIDLER with Ludlum 2221, for low-energy gamma detection
- Ludlum 43-93 with Ludlum 2360, for alpha and beta detection
- Bicron MicroRem, for exposure rate measurement
- Ludlum 2929, for alpha/beta measurements of smear samples and air filters
- Ludlum 44-9 with Ludlum 12, for beta/gamma frisking of personnel and equipment
- Breathing zone air sampler and filters
- Appropriate instrument check sources

In addition, the field technician rate includes the FY09 lodging and meals and incidentals per diem rate for the Ithaca/Waterloo/Romulus area. A standard 40-hour work week is assumed along with seven days per week of per diem. Offsite laboratory analysis is not included in the weekly rate.

The weekly rate for office includes the following:

- 10 hours per week of senior CHP support
- 1 hour per week of administrative support
- 1 hour per week of Corporate RSO support
- 1 hour per week of GIS support
- 2 hours per week of project management

In addition two subtasks have been included: 1) mobilization/ demobilization for the field technician and 2) site visits for the Certified Health Physicist.

The estimated level of effort is 6 weeks of on-site support, 1 mobilization/ demobilization for the field technician, and 2 site trips for the Certified Health Physicist.

Task 3 - Preparation and Submittal of Stand-Alone Radiological Report

Upon completion of the excavation work, CABRERA will evaluate radiological data and will prepare and submit a stand-alone report detailing the results of the excavation. CABRERA will provide three review cycles/ response to comments and will provide Parsons with three hard copies each of Draft, Draft Final, and Final versions of the report.

General Assumptions

CABRERA has made a series of assumptions forming the boundaries of work included under this proposal. These assumptions are listed below:

- CABRERA will not finalize any report without written direction from the client
- CABRERA will not be responsible for delays due to conditions beyond our control (e.g., facility infrastructure and/or staffing issues, regulatory concerns, permits, weather, scheduling required meetings, etc.).
- CABRERA will invoice the Client on a monthly basis, with payment terms of net 30 days.

Cabrera Services, Inc.
Parsons
Title: Seneca Depot Health Physics Support

Task Type: FFP
Cabrera Proposal Number: 09-051
17-Oct-08

TASK	Price	Unit	Quantity	Total
Task 1 Technical Review of Work Plans	$ 8,713.60	Lump Sum	1	**$ 8,713.60**
Task 2 Field Work Support				**$ 68,650.27**
Task 2.a Onsite RP/HP Support	$ 8,211.14	Week	6	$ 49,266.82
Task 2.b Onsite RP/HP Support Mob/Demob	$ 6,594.10	Lump Sum	1	$ 6,594.10
Task 2.c CHP Site Visit	$ 6,394.67	Each	2	$ 12,789.35
Task 3 Preparation and Submittal of Stand-Alone Report				**$ 26,065.49**
Task 3.a Report - Draft	$ 16,465.67	Lump Sum	1	$ 16,465.67
Task 3.b Report - Draft Final	$ 6,006.39	Lump Sum	1	$ 6,006.39
Task 3.c Report - Final	$ 3,593.43	Lump Sum	1	$ 3,593.43
			Total	**$ 103,429.36**

			Task 1 Technical Review of Work Plans		Task 2.a Onsite RP/HP Support		Task 2.b Onsite RP/HP Support Mob/Demob		Task 2.c CHP Site Visit	
Office or Technical Labor Category	Work Description	Rate	Hrs	Extended	Hrs	Extended	Hrs	Extended	Hrs	Extended
Vice President	Senior Radiochemist/ Project Review	$ 174.38	4	$ 697.53						
Senior Project Mgr II	Project Manager	$ 144.51	20	$ 2,890.24	2	$ 289.02	2	$ 289.02		
Administrative Assistant III	PM Support	$ 54.90			1	$ 54.90	8	$ 439.19		
Principal Technical I	Senior Certified Health Physicist	$ 144.51	20	$ 2,890.24	10	$ 1,445.12	8	$ 1,156.10	32	$ 4,624.39
Senior Technical II	Junior Health Physicist/ Report Writing/ Data Review	$ 114.80	4	$ 459.22						
Senior Technical I	Data GIS support	$ 90.16			1	$ 90.16				
Administrative Specialist III	Logistics/ Project Support	$ 75.44					8	$ 603.51		
Chief Technical	Certified Radioactive Waste Broker	$ 127.97	4	$ 511.89						
Principal Technical II	Corporate Radiation Safety Officer	$ 158.06	8	$ 1,264.48	1	$ 158.06				
		Office/Technical Labor	60	$ 8,713.80	15	$ 2,037.26	26	$ 2,487.83	32	$ 4,624.39
Field Labor Category	Work Description	Rate	Hrs	Extended	Hrs	Extended	Hrs	Extended	Hrs	Extended
Master Technician	Field HP/RP Tech	$ 64.31			40	$ 2,572.80	16	$ 1,029.04		
		Field Labor	0	$ -	40	$ 2,572.80	16	$ 1,029.04	0	$ -
		Task Total Hours	60		55		42		32	
ODCs-Cabrera Rental Equipment	Unit	Rate	Qty	Extended	Qty	Extended	Qty	Extended	Qty	Extended
FIDLER w/ scaler & GPS	Week	$ 766.23			1	$ 766.23	1	$ 766.23		
Alpha/Beta ZnS (100eqcm) detector w/ scaler	Week	$ 167.54			1	$ 167.54	1	$ 167.54		
Beta gamma GM Frisker	Week	$ 65.29			1	$ 65.29	1	$ 65.29		
Ludlum 2929	Week	$ 98.55			1	$ 98.55	1	$ 98.55		
Check Source	Week	$ 11.09			1	$ 11.09	1	$ 11.09		
Pickup Truck	Week	$ 455.80			1	$ 455.80	1	$ 455.80		
MicroRem Meter	Week	$ 99.78			1	$ 99.78	1	$ 99.78		
NIST QA Source	Week	$ 29.57			1	$ 29.57	1	$ 29.57		
NIST QA Source	Week	$ 29.57			1	$ 29.57	1	$ 29.57		
Lapel Air Sampler	Week	$ 76.38			1	$ 76.38	1	$ 76.38		
		Cabrera Rental Equipment Cost		$ -		$ 1,799.78		$ 1,799.78		$ -
ODCs-Consumables and Rentals	Unit	Rate	Qty	Extended	Qty	Extended	Qty	Extended	Qty	Extended
Misc Consumables/PPE/Sampling/Rad Protection Supplies	Week	$ 307.97			1	$ 307.97	1	$ 307.97		
Reporting Supplies (Binder, Tabs, Printing, Shipment)	each	$ 84.06								
Equipment Shipping	each	$ 153.99					4	$ 615.94		
Fuel for Onsite Vehicle	gallon	$ 4.19			35	$ 146.59	65	$ 272.25		
		Consumables and Rentals Cost		$ -		$ 454.56		$ 1,196.16		$ -
ODCs-Travel	Unit	Rate	Qty	Extended	Qty	Extended	Qty	Extended	Qty	Extended
Airfare (DEN to SYC)	RT	$ 577.53							1	$ 577.53
Rental Car	day	$ 89.42							4	$ 357.69
Perdiem Lodging - Romulus/Waterloo	day	$ 125.85			7	$ 879.56			3	$ 376.96
Perdiem Lodging Tax (10%)	day	$ 12.57			7	$ 87.96			3	$ 37.70
Perdiem M&IE	day	$ 54.20			7	$ 379.42			3	$ 162.61
Perdiem Travel Day	day	$ 40.65					2	$ 81.30	1	$ 40.65
Airport Parking	day	$ 18.48							4	$ 73.91
POV	mile	$ 0.72							60	$ 43.24
		Travel Cost		$ -		$ 1,346.94		$ 81.30		$ 1,770.29
		Task Total ODCs (Rentals, Consumables, Travel)		$ -		$ 3,601.28		$ 3,077.24		$ 1,770.29
		Office/Technical Labor		$ 8,713.80		$ 2,037.26		$ 2,487.83		$ 4,624.39
		Field Labor		$ -		$ 2,572.80		$ 1,029.04		$ -
		Task Total ODCs (Rentals, Consumables, Travel)		$ -		$ 3,601.28		$ 3,077.24		$ 1,770.29
		Price		$ 8,713.80		$ 8,211.14		$ 6,594.10		$ 6,394.67

			Task 3.a Report - Draft		Task 3.b Report - Draft Final		Task 3.c Report - Final	
Office or Technical Labor Category	**Work Description**	**Rate**	**Hrs**	**Extended**	**Hrs**	**Extended**	**Hrs**	**Extended**
Vice President	Senior Radiochemist/ Project Review	$ 174.38	8	$ 1,395.06	2	$ 348.77	2	$ 348.77
Senior Project Mgr II	Project Manager	$ 144.51	40	$ 5,780.48	16	$ 2,312.19	8	$ 1,156.10
Administrative Assistant III	PM Support	$ 54.90	8	$ 439.19	8	$ 439.19	4	$ 219.60
Principal Technical I	Senior Certified Health Physicist	$ 144.51	32	$ 4,624.39	8	$ 1,156.10	4	$ 578.05
Senior Technical II	Junior Health Physicist/ Report Writing/ Data Review	$ 114.80	32	$ 3,673.74	12	$ 1,377.85	8	$ 918.44
Senior Technical I	Data/GIS support	$ 90.16	4	$ 360.63	2	$ 180.31	2	$ 180.31
Administrative Specialist III	Logistics, Project Support	$ 75.44						
Chief Technical	Certified Radioactive Waste Broker	$ 127.97						
Principal Technical II	Corporate Radiation Safety Officer	$ 156.06						
		Office/Technical Labor	124	$ 16,273.50	48	$ 5,814.22	28	$ 3,401.26
Field Labor Category	**Work Description**	**Rate**	**Hrs**	**Extended**	**Hrs**	**Extended**	**Hrs**	**Extended**
Master Technician	Field HP/RP Tech	$ 64.31						
		Field Labor	0	$ -	0	$ -	0	$ -
		Task Total Hours	124		48		28	
ODCs-Cabrera Rental Equipment	**Unit**	**Rate**	**Qty**	**Extended**	**Qty**	**Extended**	**Qty**	**Extended**
RIDLE/R w/ scaler & GPS	Week	$ 766.23						
Alpha/Beta ZnS (100sqcm) detector w/ scaler	Week	$ 187.54						
Beta/gamma GM Frisker	Week	$ 65.29						
Ludlum 2929	Week	$ 98.55						
Check Source	Week	$ 11.09						
Pickup Truck	Week	$ 455.80						
MicroRem Meter	Week	$ 99.78						
NIST QA Source	Week	$ 29.57						
NIST QA Source	Week	$ 29.57						
Lapel Air Sampler	Week	$ 78.38						
		Cabrera Rental Equipment Cost		$ -		$ -		$ -
ODCs-Consumables and Rentals	**Unit**	**Rate**	**Qty**	**Extended**	**Qty**	**Extended**	**Qty**	**Extended**
Misc Consumables/PPE/Sampling/Rad Protection Supplies	Week	$ 307.97						
Reporting Supplies (Binder, Tabs, Printing, Shipment)	each	$ 64.06	3	$ 192.17	3	$ 192.17	3	$ 192.17
Equipment Shipping	each	$ 153.99						
Fuel for Onsite Vehicle	gallon	$ 4.18						
		Consumables and Rentals Cost		$ 192.17		$ 192.17		$ 192.17
ODCs-Travel	**Unit**	**Rate**	**Qty**	**Extended**	**Qty**	**Extended**	**Qty**	**Extended**
Airfare (DEN to SYC)	RT	$ 677.53						
Rental Car	day	$ 89.42						
Perdiem Lodging - Romulus/Waterloo	day	$ 175.65						
Perdiem Lodging Tax (10%)	day	$ 17.57						
Perdiem M&IE	day	$ 54.20						
Perdiem Travel Day	day	$ 40.65						
Airport Parking	day	$ 18.48						
POV	mile	$ 0.72						
		Travel Cost		$ -		$ -		$ -
		Task Total ODCs (Rentals, Consumables, Travel)		$ 192.17		$ 192.17		$ 192.17
		Office/Technical Labor		$ 16,273.50		$ 5,814.22		$ 3,401.26
		Field Labor		$ -		$ -		$ -
		Task Total ODCs (Rentals, Consumables, Travel)		$ 192.17		$ 192.17		$ 192.17
		Price		$ 16,465.67		$ 6,006.39		$ 3,593.43

Cabrera Services, Inc.
Parsons
Title: Seneca Depot Health Physics Support

Task Type: FFP
Cabrera Proposal Number: 09-051
17-Oct-08

ODC Markup
1.23

ODCs-Cabrera Rental Equipment	Unit	Cost	Price
FIDLER w/ scaler & GPS	Week	$ 622.00	$ 766.23
Alpha/Beta ZnS (100sqcm) detector w/ scaler	Week	$ 136.00	$ 167.54
Beta/gamma GM Frisker	Week	$ 53.00	$ 65.29
Ludlum 2929	Week	$ 80.00	$ 98.55
Check Source	Week	$ 9.00	$ 11.09
Pickup Truck	Week	$ 370.00	$ 455.80
MicroRem Meter	Week	$ 81.00	$ 99.78
NIST QA Source	Week	$ 24.00	$ 29.57
NIST QA Source	Week	$ 24.00	$ 29.57
Lapel Air Sampler	Week	$ 62.00	$ 76.38

ODCs-Consumables and Rentals	Unit	Cost	Price
Misc Consumables/PPE/Sampling/Rad Protection Supplies	Week	$ 250.00	$ 307.97
Reporting Supplies (Binder, Tabs, Printing, Shipment)	each	$ 52.00	$ 64.06
Equipment Shipping	each	$ 125.00	$ 153.99
Fuel for Onsite Vehicle	gallon	$ 3.40	$ 4.19

ODCs-Travel	Unit	Cost	Price
Airfare (DEN to SYC)	RT	$ 550.00	$ 677.53
Rental Car	day	$ 72.59	$ 89.42
Perdiem Lodging - Romulus/Waterloo	day	$ 102.00	$ 125.65
Perdiem Lodging Tax (10%)	day	$ 10.20	$ 12.57
Perdiem M&IE	day	$ 44.00	$ 54.20
Perdiem Travel Day	day	$ 33.00	$ 40.65
Airport Parking	day	$ 15.00	$ 18.48
POV	mile	$ 0.59	$ 0.72

Short Description	Description	Surcharge	Day	Week	Month	Notes/Use	Type
1X1 NaI detector w/ scaler	1" x 1" Sodium Iodide Scintillator (Ludlum 44-3) with Ludlum 2221 Scaler/Datalogger	$ -	$ -	$ 88.00	$ 242.00	Low Energy Gamma Scanning	Rad Instruments
Downhole detector w/ scaler	1" x 1" Sodium Iodide Downhole Scintillator (Bicron G1) with Ludlum 2221 Scaler/Datalogger	$ -	$ 9.00	$ 76.00	$ 228.00	Gamma down hole scanning	Rad Instruments
2X2 NaI detector w/ scaler	2" x 2" Sodium Iodide Scintillator (Ludlum 44-10) with Ludlum 2221 Scaler/Datalogger	$ -	$ -	$ 95.00	$ 270.00	Gamma scanning	Rad Instruments
Underwater detector w/ scaler	2" x 2" Underwater Sodium Iodide Scintillator (Ludlum 44-10-5) with Ludlum 2221 Scaler Datalogger	$ -	$ 31.00	$ 119.00	$ 355.00	Gamma underwater scanning	Rad Instruments
3X3 NaI detector w/ scaler	3" x 3" Sodium Iodide Scintillator (Ludlum 44-20) with Ludlum 2221 Scaler/Datalogger	$ -	$ -	$ 178.00	$ 452.00	High Energy Gamma Scanning	Rad Instruments
FIDLER w/ scaler	Fidler with Ludlum 2221 Scaler/Datalogger	$ -	$ -	$ 250.00	$ 708.00	Gamma walkover	Rad Instruments
FIDLER w/ scaler & GPS	Fidler with Ludlum 2221 Scaler/Datalogger and Trimble XR Pro GPS System	$ -	$ 97.00	$ 622.00	$ 1,683.00	Gamma walkover with GPS	Rad Instruments
Micro R Meter	Ludlum 19 - Micro R Meter	$ -	$ -	$ 40.00	$ 109.00		Rad Instruments
MicroRem Meter	Bicron Micro Rem Meter	$ -	$ -	$ 81.00	$ 210.00		Rad Instruments
Beta/gamma GM Frisker	Beta/gamma GM Frisker (Ludlum 44-9) with Ludlum 3	$ -	$ -	$ 53.00	$ 114.00	Beta/gamma scanning (Frisker)	Rad Instruments
Alpha/Beta prop. detector w/ scaler	Alpha/Beta 100 sq cm Proportional (Ludlum 43-68) with Ludlum 2221 and P-10 gas regulator (P-10 gas not included)	$ -	$ -	$ 92.00	$ 231.00	Alpha/beta scanning (Proportional)	Rad Instruments
Tritium detector w/ scaler	Windowless Proportional Tritium Detector (Ludlum 44-110) with Ludlum 2221 and P-10 gas regulator (P-10 gas not included)	$ -	$ -	$ 89.00	$ 242.00	Tritium Surveys	Rad Instruments
Floor Monitor	Floor Monitor 239-1F, Meter/Probe/Cart: Alpha/Beta 500 sq cm Proportional Detector with Ludlum 2221 and P-10 gas regulator (P-10 gas not included)	$ -	$ -	$ 280.00	$ 560.00		Rad Instruments
Alpha/Beta ZnS (100sqcm) detector w/ scaler	Alpha/Beta 100 sq cm Scintillator (Ludlum 43-93) with Ludlum 2224	$ -	$ -	$ 136.00	$ 266.00	Alpha/beta scanning/frisking (Scintillator)	Rad Instruments
Alpha/Beta ZnS (50sqcm) detector with scaler	Alpha/Beta 50 sq cm Scintillator (Ludlum 43-5) with Ludlum 2224	$ -	$ -	$ 91.00	$ 212.00	Alpha/beta scanning/frisking (Scintillator)	Rad Instruments
Ludlum 2929	Ludlum 2929 - Alpha Beta Smear/Air Sample Counter	$ -	$ -	$ 80.00	$ 200.00		Rad Instruments
Lapel Air Sampler	Breathing Zone (BZA) Lapel Air Sampler	$ -	$ 18.00	$ 62.00	$ 178.00	Includes 110V Adaptor/ Charger and Overnight Multiple Unit Charger (when multiple units are rented)	Rad Instruments
Low Vol Air Sampler	LV-1 Low Volume Air Sampler	$ -	$ 16.00	$ 52.00	$ 115.00		Rad Instruments
High Vol Air Sampler	HV-1 High Volume Air Sampler with Tripod		$ 49.00	$ 97.00	$ 280.00		
Canberra Inspector 1000	Canberra Inspector 1000 - Portable NaI Gamma Spec	$ -	$ -	$ 280.00	$ 840.00		Rad Instruments
ISOCS System	Canberra ISOCS® Characterized REGe Gamma Spec System with Cal Source	$ -	$ -	$ 1,800.00	$ 5,400.00	Includes ISOCS® Characterized REGe Detector, Dipstick, 5 L Dewar, Fill tube, Inspector 2000 MCA, Cabling, Laptop Computer, Printer, Tripod and/or Collimator, Calibration Source. Does not include: Liquid Nitrogen Cooling Gas	Rad Instruments
REGe Gamma Spec Lab System	Canberra REGe Gamma Spec Laboratory System with Cal Source	$ -	$ -	$ 880.00	$ 2,640.00	Includes REGe Detector, Dipstick, 40 L Dewar, Fill tube, Inspector 2000 MCA, Cabling, Laptop Computer, Printer, Lead Shield and Table, Calibration Source. Does not include: Liquid Nitrogen Cooling Gas	Rad Instruments
Cabrera Large Area Scanning System (4L NaI), 1 detector	Radiation Solutions Inc RS-700 Series Mobile Radiation Detection System w/ RS-701Controller Integrated data acquisition system, 1 RSX-1 256 in3 (4 L) NaI detectors in carbon fiber case, imbedded GPS receiver, software, cables & connectors, including dat	$ -	$ -	$ 2,324.00	$ 6,972.00		
Cabrera Large Area Scanning System (4L NaI), 2 detectors		$ -	$ -	$ 3,311.00	$ 9,933.00		
Cabrera Large Area Scanning System (4L NaI), 3 detectors		$ -	$ -	$ 4,296.00	$ 12,894.00		
Cabrera Large Area Scanning System (4L NaI), 4 detectors		$ -	$ -	$ 5,285.00	$ 15,855.00		

Short Description	Description	Surcharge	Day	Week	Month	Notes/Use	Type
NIST QA Source	NIST plated solid disk/button QA Source	$ -	$ 8.00	$ 24.00	$ 72.00		
Check Source	Non -NIST "button" Check Source	$ -	$ -	$ 9.00	$ 28.00		
Mixed Gamma Calibration Source	NIST Mixed-Gamma Marinelli Calibration Source	$ -	$ -	$ 56.00	$ 168.00		
Air Comp Elec	Air Compressor Electric	$ -	$ 24.00	$ 78.00	$ 211.00		Construction Equip
Air Comp Gas	Air Compressor Gasoline Powered	$ -	$ 36.00	$ 120.00	$ 298.00		Construction Equip
Paint Sprayer	Airless Paint Sprayer	$ -	$ 61.00	$ 212.00	$ 552.00		Construction Equip
Pressure Washer	Pressure Washer	$ -	$ 11.00	$ 29.00	$ 89.00		Construction Equip
Gen 1000W	Generator 1000W	$ -	$ 29.00	$ 92.00	$ 245.00		Construction Equip
Gen 2000W	Generator 2000W	$ -	$ 27.00	$ 90.00	$ 234.00		Construction Equip
HEPA Air Unit	HEPA Air Filtration Unit	$ 167.00	$ -	$ 148.00	$ 574.00	Note Surcharge: Includes Consumables (HEPA Filter, prefilter)	Construction Equip
HEPA Vac 10 Gal	HEPA VAC - 10 Gallon Dry Vac	$ 308.00	$ -	$ 70.00	$ 174.00	Note Surcharge: Includes Consumables (HEPA Filter, prefilter)	Construction Equip
HEPA Vac Hg	HEPA VAC - 10 Gallon Mercury Dry Vac	$ 707.00	$ -	$ 160.00	$ 490.00	Note Surcharge: Includes Consumables (HEPA Filter, prefilter)	Construction Equip
HEPA Vac Backpack	HEPA VAC - 2 Gallon Backpack	$ 316.00	$ -	$ 185.00	$ 555.00	Note Surcharge: Includes Consumables (HEPA Filter, prefilter)	Construction Equip
Needle Gun w/ HEPA Vac	Shrouded Needle Gun (1) with BackPack HEPA Vacuum (1), note: Air compressor (5 scfm @ 90 psig minimum) is not included	$ 605.00	$ -	$ 282.00	$ 810.00	Scabbling/Decontamination, Note Surcharge	Construction Equip
Scabbler w/ HEPA Vac	Pentek Squirrel III Scabbler System with HEPA Vacuum, note: does not include air compressor (150 cfm @ 90 PSI)	$ 944.00	$ -	$ 790.00	$ 2,334.00	Scabbling/Decontamination, Note Surcharge	Construction Equip
Pickup & Trailer	Dodge Pickup Truck and Enclosed Trailer	$ -	$ 153.00	$ 610.00	$ 1,885.00	Truck and Trailer	Construction Equip
Pickup Truck	Pickup Truck, Dodge Ram	$ -	$ 100.00	$ 370.00	$ 1,245.00		Construction Equip
Equip Trailer	Trailer, Enclosed 7 X 14 Equipment Trailer	$ -	$ 53.00	$ 240.00	$ 640.00		Construction Equip
Plasma Cutter & Air Comp	Plasma Cutter and Air Compressor	$ -	$ 71.00	$ 252.00	$ 705.00	250 Volt, 5/8 to 3/4 cutting capacity, includes power cables and cutting gun, cable, and electric powered Air Compressor	Construction Equip
2K Drum Scale	Scale - 2,000 lb Analog Drum Scale	$ -	$ 50.00	$ 180.00	$ 420.00		Construction Equip
20K Crane Scale	Scale - 20,000 lb Digital Crane Scale	$ -	$ 67.00	$ 234.00	$ 512.00		Construction Equip
Tool Kit	Tool Kit 160 piece	$ -	$ 3.00	$ 5.00	$ 15.00		Construction Equip
MIG Welder	Welder MIG - 220V	$ -	$ 49.00	$ 172.00	$ 526.00		Construction Equip
Welder/Generator	Welder/Generator Gasoline Powered	$ -	$ 58.00	$ 204.00	$ 540.00		Construction Equip

Short Description	Description	Surcharge	Day	Week	Month	Notes/Use	Type
Core Drill & access.	Core Drill with accessories	$ -	$ 71.00	$ 242.00	$ 839.00	Drill, accessories, several bits, extensions (Check bit type and size for application)	Env/Field Sampling
Digital Camera	Digital Camera	$ -	$ 8.50	$ 17.00	$ 50.00		Env/Field Sampling
GPS	GPS Trimble XR-Pro	$ -	$ 97.00	$ 372.00	$ 975.00		Env/Field Sampling
Hand Auger	Hand Auger Kit - 2" Bore	$ -	$ 20.00	$ 62.00	$ 168.00		Env/Field Sampling
Interface Meter	Interface Meter	$ -	$ 39.00	$ 126.00	$ 354.00		Env/Field Sampling
Metal Detector	Metal Detector	$ -	$ 26.00	$ 81.00	$ 223.00		Env/Field Sampling
Peristaltic Pump	Peristaltic Pump	$ -	$ 27.00	$ 77.00	$ 214.00		Env/Field Sampling
Total Station	Total Station and EI Pro System Wireless Communication System	$ -	$ 315.00	$ 1,440.00	$ 3,468.00		Env/Field Sampling
Turbidity Meter	Turbidity Meter	$ -	$ 25.00	$ 74.00	$ 199.00		Env/Field Sampling
Weather Station	HOBO Weather Station Logger,temperature, RH, wind direction, winf speed, barometer, tripod, solar radiation sensor, batteries	$ -	$ 37.00	$ 120.00	$ 350.00		
17' sampling boat	Sample Collection Boat 17' w/ Outboard Motor & Trailer	$ -	$ 120.00	$ 360.00	$ 1,080.00		Equipment
Dust Monitor	Dust/Aerosol Monitor	$ -	$ 62.00	$ 196.00	$ 580.00		IH Equipment
PhD Lite	PhD Lite - Confined Space Gas Detector	$ -	$ 45.00	$ 137.00	$ 392.00		IH Equipment
PID	PID Organic Vapor Monitor	$ -	$ 60.00	$ 172.00	$ 573.00		IH Equipment
Sound Meter	Sound Meter - Type 2 Digital	$ -	$ 32.00	$ 88.00	$ 282.00		IH Equipment
Draeger Tubes Pump	Gas Detector Pump for Colorimetric "Draeger" Tubes	$ -	$ 11.00	$ 29.00	$ 89.00		IH Equipment
PICs w/ Charger	Personal Ion Chambers (9) with Charger	$ -	$ -	$ 60.00	$ 100.00		Rad Dosimetery
Eberline Dosimeters (10) and Reader	Eberline Digidose 300 System, 10 Electronic Dosimeters and Reader	$ -	$ 5.00	$ 10.00	$ 30.00		Rad Dosimetery
MGP Electronic Dosimeters (10) and Reader	MGP DMC 2000 Electronic Dosimeters (10) and DMC 2000 Reader	$ -	$ 55.00	$ 110.00	$ 329.00		Rad Dosimetery
TLD, per Person per Quarter	TLD, includes Dosimeter Rental, Reading, and Dose Record Administration	$ 75.00	$ -	$ -	$ -		
Field Laboratory Equipment							
Lab Convection Drying Oven 110 V	Barnstead/Thermolyne Model 3513-1 Laboratory Convection Drying Oven 110 V, Max temp 410F, 5.7 cf internal volume (28"x22"x16")	$ -	$ -	$ 94.00	$ 280.00		Lab instruments
Lab Propane drying oven 44,000 BTU	Viking Laboratory Propane drying oven 44,000 BTU, 5 shelves, Max temp 500F, 15 cf internal volume	$ -	$ 67.00	$ 134.00	$ 400.00		
Lab Scale	Scale - Laboratory	$ -	$ 13.00	$ 32.00	$ 89.00		Lab Instruments
Soil Grinder	Soil Grinder Electric	$ -	$ 29.00	$ 58.00	$ 174.00		Lab Instruments
Soil Sieve	Soil Sieve Kit No. 4 Mesh	$ -	$ 3.00	$ 5.00	$ 15.00		Lab Instruments
Alpha/Beta ZnS (100sqcm) detector w/ scaler	Alpha/Beta 100 sq cm Scintillator (Ludlum 43-93) with Ludlum 2224	$ -	$ -	$ 136.00	$ 266.00	Alpha/beta scanning/frisking (Scintillator)	Rad Instruments
Beta/gamma GM Frisker	Beta/gamma GM Frisker (Ludlum 44-9) with Ludlum 3	$ -	$ -	$ 53.00	$ 114.00	Beta/gamma scanning (Frisker)	Rad Instruments
MicroRem Meter	Bicron Micro Rem Meter	$ -	$ -	$ 81.00	$ 210.00		0 Rad Instruments
Low Vol Air Sampler	LV-1 Low Volume Air Sampler	$ -	$ 18.00	$ 52.00	$ 115.00		0 Rad Instruments
Ludlum 2929	Ludlum 2929 - Alpha Beta Smear/Air Sample Counter	$ -	$ -	$ 80.00	$ 200.00		0.00 Rad Instruments
REGe Gamma Spec Lab System	Canberra REGe Gamma Spec Laboratory System with Cal Source	$ -	$ -	$ 938.00	$ 2,808.00	Includes REGe Detector, Dipstick, 40 L Dewar, Fill tube, Inspector 2000 MCA, Cabling, Laptop Computer, Printer, Lead Shield and Table, Calibration Source. Does not include: Liquid Nitrogen Cooling Gas	Rad Instruments
AC Power Conditioner	Power Conditioner AC	$ -	$ 9.00	$ 17.00	$ 50.00		Equipment
Liquid Scintillation Sample Counter	Liquid Scintillation Sample Counter	$ 2,200.00	$ -	$ -	$ 1,440.00	Packard TriCarb 1900CA - Counter Setup - Surcharge (includes setup/breakdown, add shipping (600 lbs.), add cocktail, add vials) - Per Rental Location	Rad Meter

Short Description	Description	Surcharge	Day	Week	Month	Notes/Use	Type
Needle Gun w/ Shroud	Pentek - Needle Gun w/ Shroud	$ 297.00	$ -	$ 212.00	$ 636.00	Note Surcharge for Decon and Rebuild, see Equipment Pack (below) for system with Backpack HEPA	Equipment
Scabbler System	Pentek - Squirrel III Scabbler System	$ 636.00	$ -	$ 720.00	$ 2,160.00	Note Surcharge for Decon and Rebuild, see Equipment Pack (below) for system with 10 gallon HEPA Vac	Equipment
Plasma Cutter	Plasma Cutter	$ -	$ 47.00	$ 174.00	$ 494.00	250 Volt, 5/8 to 3/4 cutting capacity, includes power cables and cutting gun, cable	Construction Equip
1X1 NaI Downhole Scintillator	Bicron G1 - 1X1 NaI Downhole Scintillator	$ -	$ 9.00	$ 18.00	$ 58.00		Rad Detector
Fidler	Fidler	$ -	$ -	$ 192.00	$ 536.00		Rad Detector
Ludlum 43-5	Ludlum 43-5 - 50 sq cm Scintillator, Alpha	$ -	$ -	$ 35.00	$ 66.00		Rad Detector
Ludlum 43-68	Ludlum 43-68 - 100 sq cm Proportional, Alpha/Beta	$ -	$ -	$ 34.00	$ 59.00		Rad Detector
Ludlum 43-89	Ludlum 43-89 - 100 sq cm Scintillator, Alpha/Beta	$ -	$ -	$ 46.00	$ 111.00		Rad Detector
Ludlum 43-93	Ludlum 43-93 - 100 sq cm Scintillator, Alpha/Beta	$ -	$ -	$ 80.00	$ 120.00		Rad Detector
Ludlum 44-10	Ludlum 44-10 - 2X2 NaI Scintillator, High Energy Gamma	$ -	$ -	$ 37.00	$ 98.00		Rad Detector
Ludlum 44-10-5	Ludlum 44-10-5 - Underwater 2X2 NaI Scintillator, Gamma	$ -	$ 31.00	$ 61.00	$ 183.00		Rad Detector
Ludlum 44-110	Ludlum 44-110 - Windowless Proportional, Tritium	$ -	$ -	$ 31.00	$ 70.00		Rad Detector
Ludlum 44-20	Ludlum 44-20 - 3X3 NaI Scintillator, High Energy Gamma	$ -	$ -	$ 120.00	$ 280.00		Rad Detector
Ludlum 44-3	Ludlum 44-3 - 1X1 Scintillator, Low Energy Gamma	$ -	$ -	$ 30.00	$ 70.00		Rad Detector
Ludlum 44-38	Ludlum 44-38 - Energy Compensated GM, Beta/Gamma	$ -	$ -	$ 8.00	$ 16.00		Rad Detector
Ludlum 44-7	Ludlum 44-7 - Thin Window GM, Alpha/Beta/Gamma	$ -	$ 6.00	$ 12.00	$ 36.00		Rad Detector
Ludlum 44-9	Ludlum 44-9 - Pancake GM, Beta/Gamma	$ -	$ -	$ 18.00	$ 31.00		Rad Detector
Ludlum 44-94	Ludlum 44-94 - Diamond Cluster GM, Beta/Gamma	$ -	$ 17.00	$ 33.00	$ 100.00		Rad Detector
Berthold LB 122	Berthold LB 122 - Proportional Counter	$ -	$ 29.00	$ 57.00	$ 170.00		Rad Meter
Berthold LB-III ARM	Berthold LB-III Area Radiation Monitor	$ -	$ 24.00	$ 47.00	$ 140.00		Rad Meter
Eberline E-600	Eberline E-600 - Data Logging Survey Meter	$ -	$ 38.00	$ 75.00	$ 225.00		Rad Meter
Ludlum 12	Ludlum 12 - Ratemeter	$ -	$ -	$ 33.00	$ 85.00		Rad Meter
Ludlum 14C	Ludlum 14C - General Purpose Survey Meter	$ -	$ -	$ 14.00	$ 40.00		Rad Meter
Ludlum 177	Ludlum 177 - Alarm Ratemeter	$ -	$ -	$ 34.00	$ 89.00		Rad Meter
Ludlum 2200	Ludlum 2200 - Digital Scaler Ratemeter SCA	$ -	$ 35.00	$ 70.00	$ 209.00		Rad Meter
Ludlum 2221	Ludlum 2221 - Portable Scaler/Ratemeter	$ -	$ -	$ 58.00	$ 172.00		Rad Meter
Ludlum 2224	Ludlum 2224 - Portable Alpha/Beta Scaler Ratemeter	$ -	$ -	$ 56.00	$ 146.00		Rad Meter
Ludlum 2224-1	Ludlum 2224-1 - Portable Alpha/Beta Scaler Ratemeter	$ -	$ -	$ 80.00	$ 239.00		Rad Meter
Ludlum 2241-3	Ludlum 2241-3 - Digital Scaler Ratemeter	$ -	$ -	$ 42.00	$ 96.00		Rad Meter
Ludlum 2360	Ludlum 2360 - Alpha Beta Datalogger	$ -	$ -	$ 58.00	$ 134.00		Rad Meter
Ludlum 3	Ludlum 3 - General Purpose Survey Meter	$ -	$ -	$ 35.00	$ 83.00		Rad Meter
Add New or Special Cabrera Equipment in this section							
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Your Flight to Denver, CO (DEN)

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United Flight 355 / 397	**8:24am** Hartford, CT (BDL)	**1:03pm** Denver, CO (DEN)	**6hrs 39min** - 1 Stop Change planes in Chicago, IL (ORD)	**$470** per person Total $519	**$647** per person **This Flight + 3 Nights Hotel**

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	Enterprise In Terminal	Thrifty In Terminal	Dollar In Terminal	Alamo Details In Terminal	Budget Details In Terminal	National In Terminal	AVIS Details In Terminal	Hertz Details In Terminal
Full Size Sort by price	$57 / Day TotalPrice $72.16	$57 / Day TotalPrice $72.17	$57 / Day TotalPrice $72.59	$76 / Day TotalPrice $95.42	$77 / Day TotalPrice $96.66	$77 / Day TotalPrice $96.67	$78 / Day TotalPrice $97.91	$78 / Day TotalPrice $98.53
Mini Van Sort by price	$77 / Day TotalPrice $96.64 150.0mi/km	Not available	Not available	$85 / Day TotalPrice $106.72	$77 / Day TotalPrice $96.66	$92 / Day TotalPrice $115.50	$78 / Day TotalPrice $97.91	$99 / Day TotalPrice $124.90
Standard Van Sort by price	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available
Full Sized Van	Not available	Not available	Not available	Not available	Not available	Not available	$63 / Day TotalPrice $79.09	Not available

Weekly U.S. Retail Gasoline Prices, Regular Grade

Dollars per gallon, including all taxes

	9/29/2008	10/6/2008	10/13/2008	Change from week ago	Change from year ago
U.S	3.632	3.484	3.151	-0.333	0.389
East Coast	3.664	3.544	3.223	-0.321	0.492
New England	3.530	3.386	3.097	-0.289	0.373
Central Atlantic	3.560	3.436	3.186	-0.250	0.447
Lower Atlantic	3.781	3.672	3.288	-0.384	0.562
Midwest	3.609	3.393	2.992	-0.401	0.257
Gulf Coast	3.600	3.436	2.990	-0.446	0.348
Rocky Mountain	3.600	3.496	3.268	-0.228	0.473
West Coast	3.642	3.568	3.421	-0.147	0.442
West Coast less CA	3.595	3.513	3.335	-0.178	0.485
States					
California	3.670	3.601	3.470	-0.131	0.417
Colorado	3.543	3.439	3.190	-0.249	0.436
Florida	3.706	3.592	3.292	-0.300	0.507
Massachusetts	3.455	3.305	3.046	-0.259	0.414
Minnesota	3.409	3.171	2.813	-0.358	0.121
New York	3.698	3.609	3.379	-0.230	0.506
Ohio	3.619	3.323	2.904	-0.419	0.164
Texas	3.567	3.382	2.946	-0.436	0.315
Washington	3.681	3.588	3.328	-0.260	0.370
Cities					
Boston	3.466	3.323	3.058	-0.265	0.429
Chicago	3.914	3.752	3.464	-0.288	0.622
Cleveland	3.610	3.275	2.899	-0.376	0.162
Denver	3.564	3.461	3.222	-0.239	0.489
Houston	3.515	3.349	3.028	-0.321	0.483
Los Angeles	3.632	3.559	3.437	-0.122	0.413
Miami	3.805	3.678	3.383	-0.295	0.488
New York City	3.533	3.398	3.163	-0.235	0.474
San Francisco	3.772	3.718	3.600	-0.118	0.487
Seattle	3.650	3.543	3.360	-0.183	0.442

Detailed Formulation and Grade Reports
Gasoline Historical Data
States in each Region
Map of Reformulated Gasoline
Motor Gasoline Taxes
Definitions of Gasoline Formulations
Definitions of Gasoline Grades
Data Collection Methodology
Sampling Methodology
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This Week in Petroleum
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CABRERA SERVICES
RADIOLOGICAL · ENGINEERING · REMEDIATION

John Hackett, PE, CHP
Sr. Project Manager

Education

- B.S. in Environmental Engineering, June 1996, Northwestern University, Evanston, Illinois
- M.S. in Environmental Engineering, December 1999, Clemson University, Clemson, South Carolina. Emphasis in radioactive waste management and environmental health physics.

Professional History

- Cabrera Services, Inc. Radiological Engineer / Health Physicist. 2007-Present
- Parsons Corporation. Radiological Engineer / Health Physicist. 2000-2007.

Professional Registrations

- Registered Professional Engineer: Colorado, 2004, No. 38434.
- Certified in Comprehensive Practice by the American Board of Health Physics, 2006.

Specialized Training

- OSHA 40-hour health and safety training for work at hazardous waste sites with annual refreshers
- OSHA 8-hour Site Supervisor Training
- OSHA 10-hour Construction Safety Training
- Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) Workshop, Argonne National Laboratory, Geneva, NY, October 17-19, 2000.
- 40-hour Radiation Safety Officer Training, Rad-Ware, Inc., March 8-12, 2004.
- Packaging and Transportation of Radioactive Materials in Accordance with DOT and IATA Regulations, Nevada Technical Associates, October 5-7, 2005.

Awards

Applied Health Physics Fellowship, Oak Ridge Institute for Science Education / Department of Energy, 1998-1999.

Summary of Experience

- *Denver Radium Sites, Colorado* – Radiation Safety Officer for remediation and clearance of eight street segments of Denver Radium Superfund Site Operable Unit 7 from 2003 through 2007. Contaminants of concern included Ra-226 and Th-230. Developed air monitoring plan for monitoring exposure and release of airborne radioactive material. Developed procedures for safe work practices involving NORM and TENORM materials to fulfill requirements of Colorado Department of Public Health and Environment (CDPHE) Radioactive Materials License (No. 1054.01).
- *Seneca Army Depot, New York.* Project Health Physicist for radiological surveys at SEAD-48 (Uranium Pitchblende Ore Storage Igloos) and NRC-licensed depleted uranium (DU) storage igloos. Co-author of MARSSIM-based survey design for the investigation of DU and historical pitchblende ore contamination. Worked with NRC inspectors to successfully terminate license SUC-1275 for possession of DU.
- *Various Air Force Sites.* Health Physicist for characterization and waste reduction survey for low-level radioactive and low-level mixed wastes at several Air Force sites. Evaluated current waste-generating processes and made recommendations to minimize mixed wastes and save on disposal costs.
- *Griffiss Air Force Base, New York.* Health Physicist for preliminary assessment/site inspection of storm and sanitary sewer lines associated with luminous radium painting facility. Supervised field radiological surveys and video inspection of affected lines. Evaluated site engineering drawings to identify potential collection or contamination areas.
- *Grissom Air Reserve Base, Indiana.* Field Health Physicist for excavation and MARSSIM-based final status survey of site contaminated with depleted uranium, enriched uranium, and thorium alloys. Co-author and task manager for Final Status Survey Report.

CABRERA SERVICES
RADIOLOGICAL · ENGINEERING · REMEDIATION

WADE FILLINGAME
WASTE BROKER

Education
- U.S. Navy Nuclear Program

Specialized Training/Certifications
- DoD-certified Sr. Waste Broker (JMC)
- DOE Advanced Mixed Waste Transportation
- RCRA hazardous waste management
- Radioactive and Hazardous Waste Disposal
- DOT Hazardous Materials Transportation

General Training
- 40 Hour HAZWOPER (current)
- 8 Hour HAZWOPER Site Supervisor
- 10 Hour OSHA Construction Safety
- Radiation Worker Training
- First Aid

Experience Summary

Mr. Fillingame has more than 20 years of experience for Government and private sector clients managing disposition of a wide variety of wastes, including waste characterization/profiling; securing permits, licenses and 20.2002/similar license exemptions; sizing; packaging; storage; surveying; transport; treatment; and off-site disposal of radioactive, RCRA hazardous, asbestos, TSCA PCB, and Mixed Waste. His experience includes working for waste generators, waste brokers and disposal facilities, and the last 5 years he has worked for CABRERA in support of remediation and waste brokering projects. Mr. Fillingame is a DoD-certified Senior Waste Broker and has extensive training and experience in radioactive waste management and hazardous materials transportation.

As a waste generator, Mr. Fillingame lead management and waste packaging/transport/disposal for decommissioning a commercial accelerator facility, managed and shipped waste for a combined period of two years from several power reactors (including Diablo Canyon in San Luis Obispo, California), and managed radioactive waste shipping and FSS for decommissioning UCLA's waste storage facility (Los Angeles, California). That experience was built off a foundation in radiological principals established during his prior tenure with the US Navy as an Engineering Laboratory Technician responsible for radiological controls and dosimetry on board a nuclear submarine.

Working for waste brokers and treatment/disposal companies has given Mr. Fillingame an in-depth understanding of the requirements and perspectives of transportation and disposal operations. While working at ATG and US Ecology, he was responsible for overall operation of field services operations, including milk-run brokerage services. He facilitated waste profiling and addressed LLRW and Mixed Waste acceptance issues while with EnergySolutions (Utah) and administered radiation protection program for waste sorting, segregation, and compaction operations at the Chem-Nuclear Defense Consolidation Facility.

Key Projects

Mr. Fillingame has been employed at CABRERA for the last 5 years, where he leads supports remediation projects and company's radioactive brokering transport and disposal work for the U.S. Army Joint Munitions Command, DoD's executive agent for Low Level Radioactive Waste management. In this capacity, he has successfully managed the transport and disposal of LLRW and low specific activity waste from 31 CONUS and OCONUS locations, including California, with zero incidents or notices of violation. Select examples of experience include:

Senior Waste Broker, Great Lakes Naval Station Radiological Remediation/Decommissioning
Mr. Fillingame managed on-site waste packaging and contamination control operations as well as coordinated off-site (truck and rail) transport and disposal for the successful remediation of 3,000 cubic yards of Thorium and Radium-contaminated soil and debris from former Monazite sand operations. Precision excavation and gamma walkovers and sampling/field radiological laboratory analysis in one-foot lifts reduced waste quantities by 95% of that originally destined for removal, saving more than $2M in transportation and disposal costs

Senior Waste Broker, McClellan AFB, Radiologically-Contaminated Soil, IDW and LLRW Removals
Mr. Fillingame has managed four separate radiological removal efforts from McClellan AFB and McClellan Park (California) on behalf of the Air Force and its contractors, including removal of radiologically-contaminated stockpiled soil, removal of investigate-derived waste from characterization efforts, and LLRW sources and demolition waste from for the AF in preparation for BRAC closure. His work has included disposal characterization sampling/analysis, waste profile sheet preparation/disposal facility acceptance, securing a (disposal State) generator permits, coordinating removals with AFRPA & Base personnel, waste sizing and packaging, performing radiological release surveys, truck transport and manifesting (bills of lading), and off-site disposal coordination.

Senior Waste Broker, Lake City Army Ammunition Plant Area 10 Radiological/MEC/Lead Removal Action
Managed CERCLA/RCRA/radioactive waste activities for a Non-Time Critical Removal Action for industrial waste lines and sumps during Building 3A Depleted Uranium Wing Decommissioning project, characterizing radiologically-contaminated soil and demolition debris; waste management for removal of a 600 cubic yard Bullet Catcher; implemented innovative technology and waste processing techniques to render the majority of radioactive, MEC and lead-contaminated waste non-hazardous and inert facilitating disposal at conventional industrial waste disposal facilities; and managing packaging and truck to rail off-site transport and disposal of radiologically-and lead-contaminated waste streams.

Senior Waste Broker, APG DU Range Radiological Removal Action
Mr. Fillingame in radiological waste transportation and disposal costs through innovative waste management approaches during radiological remediation of a depleted uranium range at an active Army installation. Saved >$200K by decontaminating large segments of steel blast plates on site rather than re-using construct new target assemblies. Supervised the segregation, packaging, transportation and disposal of radioactive and hazardous wastes; supervised on-site storage, transfer and loading of 1,200 cubic yards of DU-contaminated soil and debris; managed on-site transportation logistics, filling and movement of intermodal containers to railhead, and return of intermodal containers for refilling; and managed transportation subcontractor movement of intermodals via rail.

Senior Waste Broker, Lawrence Livermore Labs Waste Removal
Mr. Fillingame provided oversight of LLRW waste characterization/classification, waste profiling/disposal facility approval, and packaging for off-site transport/disposal at DOE's Lawrence Livermore Lab (Berkley, California).

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(COMPLETE ONE SECTION E FOR EACH KEY PERSON.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS OF EXPERIENCE	
Henry Siegrist, PE, CHP	Corporate RSO/ Regulatory Specialist	A. TOTAL: 30	B. WITH CURRENT FIRM: 8

15. FIRM NAME AND LOCATION (CITY AND STATE)
Cabrera Services, Inc. – East Hartford, CT

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE, REGISTRATION AND ID OR REGISTRATION #)
M.E. Environmental Engineering (Radiological Health Option) B.S. Environmental Engineering	Certified Health Physicist – Nationwide Professional Engineer – Connecticut

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAININGS, AWARDS, ETC.)
Plenary Member, Health Physics Society, Radiation Protection Implementation Task Force Member
Receipt and Control of Radioactive Sources

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION (CITY AND STATE): Aberdeen Proving Ground A/E Services, Aberdeen, MD

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (IF APPLICABLE)
2006	2006

(3) BRIEF DESCRIPTION (BRIEF SCOPE, SIZE, COSTS, ETC.) AND SPECIFIC ROLE ☑ CHECK IF PROJECT PERFORMED WITH CURRENT FIRM

Corporate RSO: Negotiated development of remedial approach for $1.8M HTRW range remediation project; Led client-NRC discussions for the evaluation of 46,000 square meters of land (25 Class 1 survey units) and 5 buildings and structures for radiological contamination based on MARSSIM guidance

- Saved $500K in excavation and T&D costs by negotiating higher cleanup criteria through engineering analyses
- Saved $100K in engineering costs and reduced schedule by 6 months by negotiating with NRC to allow APG to use their NRC license, without need for a Decommissioning Plan amendment
- Conducted independent audits and surveillances, resolution, root cause analysis, and self assessment training to ensure waste program maintains their ability to ship classified low-level rad waste to DOE's Nevada Test Site.

b

(1) TITLE AND LOCATION (CITY AND STATE): Lake City Army Ammunition Plant, Independence, MO

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (IF APPLICABLE)
2005	2005

(3) BRIEF DESCRIPTION (BRIEF SCOPE, SIZE, COSTS, ETC.) AND SPECIFIC ROLE ☑ CHECK IF PROJECT PERFORMED WITH CURRENT FIRM

Corporate RSO: Negotiated complex regulatory compliance issues with multiple regulators and challenges associated with managing explosive, radioactive, and toxic waste on this $3.8M project; Worked with the MDNR and avoided significant costs in RCRA penalties by obtaining Temporary Authorization (TA) to allow on-site treatment utilizing first-of-its-kind technology to demilitarize hundreds of high explosive rounds with depleted uranium contamination, wastewater solidification, and soil sifting for UXO

- Achieved unrestricted radiological/chemical release of the 600 Yard Bullet Catcher and Building 3A DU Wing and EE/CA removal of sumps through negotiations with the NRC, US EPA, and Missouri DNR; through these negotiations, these projects met the challenging schedule set by the NRC, EPA, and the Army.
- Managed multiple waste streams including: RCRA hazardous, explosive, radioactive, and radioactive mixed wastes in accordance with multiple regulatory requirements for DOT, EPA, NRC, MDNR, DDESB, and DoD.
- Obtained approval for technology implementation from EPA Region VII, MDNR, Army FSC, Army Materiel Command, DESB, and NRC

c

(1) TITLE AND LOCATION (CITY AND STATE): Colonie FUSRAP Site, Colonie, NY

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (IF APPLICABLE)
2006	

((3) BRIEF DESCRIPTION (BRIEF SCOPE, SIZE, COSTS, ETC.) AND SPECIFIC ROLE ☑ CHECK IF PROJECT PERFORMED WITH CURRENT FIRM

Corporate RSO: Provided senior level regulatory support for $430K project for the evaluation of several thousand linear feet of underground sewer lines (including underground structures) contaminated with DU and lead

- Ensured future residential scenario dose to human health met Federal regulatory compliance, negotiated details with Regulators (underground sewers and structures were excavated, recycled, and reused)
- Identified potential federal and state ARARS, presented streamlined evaluation of radiological and chemical contaminants of concern and negotiated removal action objectives with regulators
- Prepared EE/CA evaluating seven alternative analyses for Colonie site closure to alleviate public dissatisfaction
- Negotiated risk assessment for lead and low level radionuclides, saved >$2M by gaining regulatory acceptance, avoiding lead removal project

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Daniel Caputo, CHP, PhD	Senior Radiochemist	a. TOTAL: 20	b. WITH CURRENT FIRM: 5

15. FIRM NAME AND LOCATION *(City and State)*

Cabrera Services, Inc. – East Hartford, Connecticut

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
PhD/2000/Nuclear Engineering – Actinide Chemistry MEng/1989/Nuclear Engineering – Waste Management	Certified Health Physicist – Nationwide

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Plenary Member-Health Physics Society
Member-American Nuclear Society
U.S. Air Force, 2002 Health Physicist of the Year
U.S. Air Force, Meritorious Service Medal (1 Oak Leaf Cluster)/Commendation Medal (2 Oak Leaf Clusters)

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
a.	**US Air Force Nationwide Radiological CERCLA Support Nationwide**		☑ Check if project performed with current firm

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Actinide Chemist

The BOMARC Missile Accident Site at McGuire AFB, New Jersey, involved the complete deflagration of a nuclear missile body and warhead containing plutonium, uranium, thorium, and hazardous materials. The laboratory analytical procedures used involve wet and dry analytical methods including sequential extraction alpha spectroscopy, low-energy beta liquid scintillation, gamma spectroscopy, gas chromatography/mass spectroscopy (GC/MS), inductively-coupled plasma/mass spectroscopy (ICP/MS), and gross alpha/beta gas proportional detection.

- Oversight of Remedial Action Work Plans and performance of MARSSIM-compliant Final Status Surveys.
- Conducts special studies to determine the chemical and physical characteristics of the discrete plutonium "hot" particle forms using stereoscopic and electron microscopy particle sizing, sequential extraction and spectroscopic analysis to model fate and transport (CHESS code), and multi-pathway risk modeling (RESRAD).
- Writes onsite gamma spectroscopy laboratory SOPs and manages field laboratory operations. The near real time data generated by this laboratory facilitates implementation of the EPA Triad process, which has been integrated into the MARSSIM Final Status Survey Plan.

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
b.	**US Air Force Center for Environmental Excellence Preliminary Assessment/Site Investigation McClellan AFB, Sacramento, CA**	2005	☑ Check if project performed with current firm

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Lead Health Physicist and Project Chemist

Conducted comprehensive radiological CERCLA PA/SI. Site investigations covered 700 acres and over 20 COPCs including weapons grade plutonium, highly enriched uranium, depleted uranium, thorium, radium, and assorted fission and activation products. In order to protect threatened species and habitat, CABRERA developed an *in situ* laboratory analytical procedure to replace standard soil sampling with off-site analysis. Using our NRC approved analytical procedures and detailed QA/QC processes, CABRERA gained stakeholder approval for our *in situ* gamma spectroscopy laboratory, which resulted in reduced cost, expedited schedule, and no impact to threatened species.

- Provided laboratory data interpretation and validation for over 15,000 analytical sample results.
- Innovative *in situ* laboratory methods reduced project time by 20% and saved over 10% in project costs. Efforts resulted in the immediate unrestricted release of over 600 acres of property and saving the Air Force over $8M.

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
c.	**US Army Field Support Command Nationwide Radiological Services Nationwide**	PROFESSIONAL SERVICES 2004	CONSTRUCTION *(if applicable)*
		☐ Check if project performed with current firm	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Chemistry Program Lead and QA/QC Officer

Provided QA/QC oversight related to planning, field implementation, data management and reporting for this $68M FFP contract. Oversaw the mobilization and operation of the on-site radioanalytical and hazardous waste laboratory. Designed complex ISOCS® templates for modeling complicated source distributions in the landfill.

- Developed and coordinated radioanalytical and chemical sample analysis plan for over 1,000 samples supporting the disposal of 48,000 cubic yards of mixed soil waste and debris.
- Saved the Air Force over $1M in analytical costs through innovative sample collection techniques and through the use of a tiered analytical approach based on process knowledge.

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
d.	**US Air Force Nationwide Radiological CERCLA Support Nationwide**	PROFESSIONAL SERVICES 2004	CONSTRUCTION *(if applicable)*
		☐ Check if project performed with current firm	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Environmental Actinide Chemist

Supported all U.S. Air Force actinide chemistry requirements for over 20 environmental remediation projects including nuclear weapon accidents sites, atmospheric testing sites, depleted uranium munitions ranges and test areas, and monazite sand stockpile sites. Analytical techniques included sequential extraction alpha spectroscopy, gamma spectroscopy, liquid scintillation, gross alpha and beta proportional counting, and inductively coupled plasma-mass spectrometry (ICP-MS).

- Developed and reviewed analytical procedures and QA/QC manual for 10 field deployable laboratories.
- Designed field laboratories and procured analytical systems and support equipment for laboratory operations.

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
e.	**Massachusetts Institute of Technology Actinide Chemistry Group Cambridge, MA**	PROFESSIONAL SERVICES 2000	CONSTRUCTION *(if applicable)*
		☐ Check if project performed with current firm	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Actinide Chemist

Actinide chemist for the Actinide Chemistry Group at the Massachusetts Institute of Technology. Analytical techniques included sequential extraction studies coupled with light spectroscopic systems, ICP-MS, alpha spectroscopy, gamma spectroscopy, x-ray fluorescent spectroscopy (EXAFS, XANES), nuclear magnetic resonance (NMR), and x-ray diffraction (XRD).

- Investigated plutonium forms unearthed at the McClellan CS-10 site in CA. The Pu was shown to be in an aluminum matrix and of high purity, allowing the site owner to assign process knowledge and to accurately amend the conceptual site model. The quick handling and analytical support averted over $10K/day in fines and penalties to the Air Force.