

**COOPERATIVE PURCHASING AGREEMENT
FOR DISASTER DEBRIS MANAGEMENT AND RECOVERY SERVICES**

agreements. This Agreement may not be amended, modified or changed except by written amendment executed by both Parties. The estimate of the level of effort, schedule and payment required to complete the Scope of Services, as Contractor understands it, is reflected herein. Services not expressly set forth in this Agreement or its exhibits are excluded. Contractor shall promptly notify Client if changes to the Scope of Services affect the schedule, level of effort or payment to Contractor and the schedule and payment shall be equitably adjusted.

5. **Uncontrollable Forces:** Neither the Client nor Contractor shall be considered to be in default of this Agreement if delays in or failure of performance shall be due to Uncontrollable Forces, the effect of which, by the exercise of reasonable diligence, the non-performing party could not avoid. The term "Uncontrollable Forces" shall mean any event which results in the prevention or delay of performance by a party of its obligations under this Agreement and which is beyond the reasonable control of the nonperforming party. It includes, but is not limited to fire, flood, earthquakes, explosion, strike, transportation, or equipment delays, act of war, Act of God, lightning, epidemic, war, riot, civil disturbance, sabotage, acts of terrorism and governmental actions outside the control of the Client. The schedule or payment under the Agreement shall be equitably adjusted, if necessary, to compensate Contractor for any additional costs due to the delay.

Neither party shall, however, be excused from performance if nonperformance is due to forces which are foreseeable, preventable, removable, or remediable, and which the nonperforming party could have, with the exercise of reasonable diligence, prevented, removed or remedied with reasonable dispatch. The nonperforming party shall, within a reasonable time of being prevented or delayed from performance by an uncontrollable force, give written notice to the other party describing the circumstances and uncontrollable forces preventing continued performance of the obligations of this Agreement.

6. **Fee for Services:** The fee for the services under this Agreement will be based on the actual hours of services furnished multiplied by Contractor's Billing Rates as set forth in Exhibit B, plus all reasonable expenses directly related to the services furnished under this Agreement.
7. **Compensation:** Contractor shall bear the costs of performing all services under this Agreement, as directed by the Client, plus applicable permit and license fees and all maintenance costs required to maintain its vehicles and other equipment in a condition and manner adequate to accomplish and perform all services under this Agreement.

Client shall pay Contractor in accordance with paragraph 7 above, "Fee for Services" (Exhibit B) which is attached and incorporated herein by reference as part of this Agreement.

Contractor shall submit monthly invoice for services rendered.

Client will review invoices for acceptance within ten (10) calendar days of the date of the invoice to which Client shall immediately notify Contractor of any invoice discrepancies. Contractor and Client will work in good faith to resolve any such discrepancies within ten (10) days after notification. Should a discrepancy result in a partial rejection of any item(s) invoiced, Client shall proceed with partial payment within Net 30 days of the date of the invoice. If Client fails to make payment within thirty (30) days of the date of such invoice, interest compounded at the rate of one percent (1%) per month (retroactive to the first month outstanding) shall be charged and payable by Client on all amounts unpaid and outstanding (less any discrepant amount identified within the ten (10) day review period noted above). Under no circumstances shall payment of Contractor's invoices be contingent on reimbursement of Client by any third party

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authority or funding source. Any interest charges due from Client on past due invoices are in addition to amounts otherwise due under this Agreement. If Client fails to make any payment to Contractor as required hereunder, Contractor shall have the right exercisable in Contractor's sole discretion, in addition to its other rights and remedies, to cease further performance of the Services hereunder and/or initiate collections proceedings without incurring any liability or waiving any rights established hereunder or by law.

All invoices shall be delivered to:

*Jeff D. Braun, Emergency Management Coordinator
Fort Bend County
Office of Emergency Management
307 Fort Street
Richmond, TX 77469
jeff.braun@co.fort-bend.tx.us*

All payments shall be delivered to:

*Tetra Tech, Inc.
P.O. Box 911642
Denver, CO 80291-1642
brad.wesolowski@tetrattech.com*

In order for both parties herein to close their books and records, the Contractor will clearly state "Final Invoice" on the Contractor's final/last billing to the Client. Such statement shall serve as certification that all services have been properly performed and all charges and costs have been invoiced to the Client. Upon submission of the Final Invoice, Client's account with Contractor will be closed and any and other further charges if not properly included on the Final Invoice shall be considered waived by the Contractor.

8. **Indemnity:** Contractor agrees to defend, indemnify, and hold harmless Client from and against claims, judgments, and awards, as well as the reasonable costs related thereto (hereinafter collectively referred to as "Damages") to the extent such Damages result from the negligent or willful acts or omissions of Contractor occurring in the performance of its obligations hereunder.
9. **Insurance:** Prior to commencement of the services, Contractor shall furnish Client with evidence of all insurance required and provide that such insurance shall not be canceled, except on 30 days' prior written notice to Client. Contractor shall maintain such insurance coverage from the time services commence until services are completed. Contractor shall obtain such insurance written on an Occurrence form from such companies having Bests rating of A/VII or better, licensed or approved to transact business in the State of Texas.
 - a) Contractor shall obtain such insurance of the following types and minimum limits:
 - i. Workers' Compensation insurance in accordance with the laws of the State of Texas. Substitutes to genuine Workers' Compensation Insurance will not be allowed.
 - ii. Employers' Liability insurance with limits of not less than \$1,000,000 per injury by accident, \$1,000,000 per injury by disease, and \$1,000,000 per bodily injury by disease.
 - iii. Commercial general liability insurance with a limit of not less than \$1,000,000 each occurrence and \$2,000,000 in the annual aggregate. Policy shall cover

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liability for bodily injury, personal injury, and property damage and products/completed operations arising out of the business operations of the policyholder.

- iv. Business Automobile Liability insurance with a combined Bodily Injury/Property Damage limit of not less than \$1,000,000 each accident. The policy shall cover liability arising from the operation of licensed vehicles by policyholder.
 - v. Professional Liability insurance with limits not less than \$1,000,000
- b) Client and the members of Commissioners Court shall be named as additional insured to all required coverage. All Liability policies written on behalf of Contractor shall contain a waiver of subrogation in favor of Client and members of Commissioners Court.
- c) If required coverage is written on a claims-made basis, Contractor warrants that any retroactive date applicable to coverage under the policy precedes the effective date of the contract; and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of 2 years beginning from the time that work under the Agreement is completed.
10. **Work Product:** Client shall have the unrestricted right to use the documents, analyses and other data prepared by Contractor under this Agreement ('Work Products'); provided, however Client shall not rely on or use the Work Products for any purpose other than the purposes under this Agreement and the Work Products shall not be changed without the prior written approval of Contractor. If Client releases the Work Products to a third party without Contractor's prior written consent, or changes or uses the Work Products other than as intended hereunder, (a) Client does so at its sole risk and discretion and (b) Contractor shall not be liable for any claims or damages resulting from the change or use or connected with the release or any third party's use of the Work Products.
11. **Limitation of Liability:** No employee of Contractor shall have individual liability to Client. To the extent permitted by law, the total liability of Contractor, its officers, directors, shareholders, employees and Subcontractors for any and all claims arising out of this Agreement, including attorneys' fees, and whether caused by negligence, errors, omissions, strict liability, or breach of contract or contribution shall not exceed one million dollars (U.S. \$1,000,000).
12. **No Consequential Damages:** In no event and under no circumstances shall Contractor be liable to Client for any principal, interest, loss of anticipated revenues, earnings, profits, increased expense of operation or construction, loss by reason of shutdown or non-operation due to late completion or otherwise or for any other economic, consequential, indirect or special damages.
13. **Information Provided by Others:** Client shall provide to Contractor in a timely manner any information Contractor indicates is needed to perform the services hereunder. Contractor may reasonably rely on the accuracy of information provided by Client and its representatives.
14. **Safety and Security:** Contractor has established and maintains programs and procedures for the safety of its employees. Unless specially included as a service to be provided under this Agreement, Contractor specially disclaims any authority or responsibility for job site safety and safety of persons other than Contractor's or Subcontractor's employees.
15. **Termination:** Either party may terminate this Agreement for any reason upon 60 days written notice to the other party. Termination will not affect payment obligations incurred under this Agreement for Services performed and reimbursable costs and expenses incurred prior to the effective date of termination, including without limitation commitments to purchase products

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or services from third parties, which were entered into by Contractor in the course of performance hereunder prior to the effective date of termination. Such reimbursable costs may include, but are not limited to, cancellation fees, minimum consulting or material fees, and non-refundable charges or fees for third party products or services.

16. **Dispute Resolution:** Contractor and Client shall attempt to resolve conflicts or disputes under this Agreement in a fair and reasonable manner and agree that if resolution cannot be made to attempt to mediate the conflict by a professional mediator. If mediation does not settle any dispute or action which arises under this Agreement or which relates in any way to this Agreement or the subject matter of this Agreement within ninety (90) days after either party requests mediation, the dispute or conflict shall be subject to litigation.
17. **Successors and Assigns:** This Agreement is binding upon and will inure to the benefit of Client and Contractor and their respective successors and assigns. Neither party may assign its rights or obligations hereunder without the prior written consent of the other party.
18. **Notices:** Any notice required or permitted by this Agreement to be given shall be deemed to have been duly given if in writing and delivered personally or five (5) days after mailing by first-class, registered, or certified mail, return receipt requested, postage prepaid and addressed as follows:

Client:

County Judge
Fort Bend County
301 Jackson Street, Suite 719
Richmond, TX 77469
281.341.8608

Jeff D. Braun, Emergency Management Coordinator
Fort Bend County
Office of Emergency Management
307 Fort Street
Richmond, TX 77469
281.342.6185 Office
jeff.braun@co.fort-bend.tx.us

Contractor:

Betty Kamara, Contracts Administrator
Tetra Tech, Inc.
2301 Lucien Way, Suite 120
Maitland, FL 32751
321.441.8518 Office
407.803.2551 Mobile
321.441.8501 Fax
betty.kamara@tetrattech.com

19. **Severability:** The invalidity, illegality, or unenforceability of any provision of this Agreement, or the occurrence of any event rendering any portion or provision of this Agreement void, shall in no way affect the validity or enforceability of any other portion or provision of the Agreement.

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Any void provision shall be deemed severed from the Agreement and the balance of the Agreement shall be construed and enforced as if the Agreement did not contain the particular portion or provision held to be void. The parties further agree to reform the Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this section shall not prevent the entire Agreement from being void should a provision which is of the essence of the Agreement be determined to be void.

20. **Governing Law and Venue:** This Agreement shall be governed by and interpreted according to the laws of the State of Texas. The venue for any and all legal action necessary to enforce the Agreement shall be ___Fort Bend County.
21. **Access and Audits:** Contractor shall maintain adequate financial and program records to justify all charges, expenses, and costs incurred in estimating and performing the work under this Agreement for at least three (3) years following final payment to the Client as Federal Emergency Management Agency sub-grantee as required by FEMA's 322 Public Assistance Guide, page 114, as amended, or any similar regulation, policy, or document adopted by FEMA subsequent to the execution of this Agreement. The Client shall have access to all records, documents and information collected and/or maintained by others in the course of the administration of the Agreement. This information shall be made accessible at the Contractor's place of business to the Client, including the Comptroller's Office and/or its designees, for purposes of inspection, reproduction, and audit without restriction.
22. **Compliance with Laws:** In performance of the Services, Contractor will comply with applicable regulatory requirements including federal, state, special district, and local laws, rules, regulations, orders, codes, criteria and standards, and shall obtain all permits and licenses necessary to perform the Services under this Agreement at Contractor's own expense.
23. **Non-Discrimination:** The Contractor warrants and represents that all of its employees are treated equally during employment without regard to race, color, religion, gender, age or national origin.
24. **Waiver:** A waiver by either the Client or Contractor of any breach of this Agreement shall not be binding upon the waiving party unless such waiver is in writing. In the event of a written waiver, such a waiver shall not affect the waiving party's rights with respect to any other or further breach. The making or acceptance of a payment by either party with knowledge of the existence of a default or breach shall not operate or be construed to operate as a waiver of any subsequent default or breach.
25. **Entirety of Agreement:** The Client and the Contractor agree that this Agreement sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. This Agreement supersedes all prior agreements, contracts, proposals, representations, negotiations, letters or other communications between the Client and Contractor pertaining to the Services, whether written or oral. None of the provisions, terms and conditions contained in this Agreement may be added to, modified, superseded or otherwise altered except by written instrument executed by the parties hereto.
26. **Modification:** The Agreement may not be modified unless such modifications are evidenced in writing and signed by both the Client and Contractor. Such modifications shall be in the form of a written Amendment executed by both parties.
27. **Contingent Fees:** The Contractor warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Contractor to solicit or secure

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this Agreement and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the Contractor, any fee, commission, percentage, gift or any other consideration contingent upon or resulting from the award or making of this Agreement.

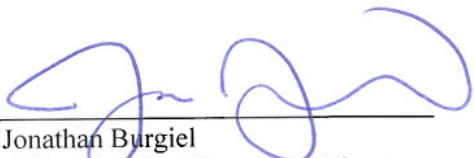
28. **Truth-in-Negotiation Certificate:** Execution of this Agreement by the Contractor shall act as the execution of a truth-in-negotiation certificate certifying that the wage rates and costs used to determine the compensation provided for in this Agreement are accurate, complete, and current as of the date of the Agreement.
29. **Confidentiality:** No reports, information, computer programs, documentation, and/or data given to, or prepared or assembled by the Contractor under this Agreement shall be made available to any individual or organization by the Contractor without prior written approval of the Client.
30. **Miscellaneous:** Client expressly agrees that all provisions of the Agreement, including the clause limiting the liability of Contractor, were mutually negotiated and that but for the inclusion of the limitation of liability clause in the Agreement, Contractor's compensation for services would otherwise be greater and/or Contractor would not have entered into the Agreement.
31. **Counterparts:** This Agreement may be executed in multiple counterparts, each of which shall be deemed to be an original instrument, but all of which taken together shall constitute one instrument.

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IN WITNESS WHEREOF, the Contractor has caused this Agreement to be signed in its corporate name by its authorized representative, and the Client has caused this Agreement to be signed in its legal corporate name by persons authorized to execute this Agreement as of the day and year first written above.

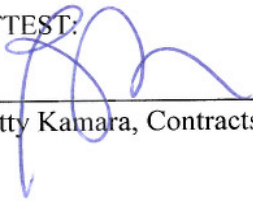
**CONTRACTOR:
TETRA TECH, INC.**

**CLIENT:
FORT BEND COUNTY, TEXAS**



By: Jonathan Burgiel
Title: Vice President/Operations Manager
Date: 6/1/14

By:
Title:
Date: _____

ATTEST:


Betty Kamara, Contracts Administrator

ATTEST:

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**EXHIBIT A
TETRA TECH, INC.
Scope of Services**

Service Offerings

Tetra Tech, Inc. (Tetra Tech) has access to the full range of personnel with key expertise in relevant topic areas described in the Houston-Galveston Area Council (H-GAC) request for proposals (RFP). Our team offers services in all areas of security, disaster preparedness, and emergency response and recovery. This document reviews our services offerings and hourly rates on the following pages.

Emergency Management Consulting

Unlike many emergency management firms that focus on planning, Tetra Tech is a full-service emergency management firm that works in all phases of emergency management.

When a major incident occurs, the impact sends shockwaves around the globe. All eyes are on the incident and the level of scrutiny is overwhelming. As an experienced leader in the emergency management industry, Tetra Tech knows what it takes to respond effectively and to initiate recovery activities almost simultaneously, while maintaining transparency for the public and elected officials.

We are better planners because of our active involvement in response and recovery efforts. We develop realistic plans that can be effectively implemented during a response.

Tetra Tech works with organizations across the country in jurisdictions that face a variety of threats and hazards, from dense urban areas susceptible to security threats to coastal communities prone to hurricanes. For that reason, Tetra Tech maintains a multidisciplinary staff with backgrounds and experience in emergency management, hazardous materials (HAZMAT) response and recovery, public health and healthcare planning, transportation and evacuation, all-hazards mitigation, disaster resiliency and readiness planning, and response and recovery, among other fields. The breadth and depth of our expertise distinguishes Tetra Tech from other firms and allows us to provide the full range of planning and program execution services.

Table C-1. Emergency Management Consulting Services

Service Offering	Description
Hazard Mitigation Planning	Tetra Tech provides hazard mitigation plan development for clients to establish mitigation goals and objectives, and to identify projects that enable the jurisdiction to prepare for and reduce the impacts of a disaster in a Federal Emergency Management Agency (FEMA)-compliant format.
Emergency Operations Planning	Tetra Tech provides our clients with emergency operations planning consisting of a basic plan, emergency support functions (ESFs) annexes, and incident-specific appendices that address direction and control, communications, public warning, emergency public information, evacuation, mass care, health and medical, resource management, etc.

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Service Offering	Description
Continuity of Operations (COOP) Planning	Tetra Tech develops COOP plans for our clients so they are prepared to provide mission essential functions across a wide range of emergencies. A COOP plan is designed to plan for denial of access to a facility, denial of service due to equipment or systems failure, and denial of service due to a reduced workforce.
Continuity of Government (COG) Planning	Tetra Tech provides COG planning to our client to ensure continued leadership, authorities, direction and control, and preservation of records to maintain a viable system of government.
Emergency Support Function (ESF) Planning	Tetra Tech provides ESF planning to assign roles and responsibilities of supporting agencies as either a stand-alone planning effort or part of an EOP. ESFs provide a structure for managing response efforts that involve multiple agencies at the local, state, and/or regional level.
Departmental Emergency Response Planning	Tetra Tech assists department-level clients within a larger organization with primary or secondary support roles under the ESFs to develop specific emergency plans. Departmental emergency response planning is the effort used to develop standard operating guides and/or standard operating procedures for departments with primary or support responsibilities.

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Service Offering	Description
<p>Evacuation Planning</p>	<p>Tetra Tech provides evacuation planning support to our clients ,including the development of:</p> <ul style="list-style-type: none"> • Clear agency roles/responsibilities for small- and large-scale and point source evacuation scenarios • Effective situational awareness communication protocols to determine evacuation areas and evacuation participation rates • Development of consistent and effective warning order evacuation/shelter-in-place terminology designed to motivate citizens and tourists to evacuate with a sense of urgency and along advocated routes or to shelter in place if they are outside the impact zone • Tailored time-phased protective action measures (such as staging and mutual aid activation) to ensure that populations at risk can be effectively and efficiently moved out of harm’s way and sheltered as needed • Identification of vulnerable special needs populations, transportation-dependent communities, large animal and pet considerations, additional behavioral assumptions, critical traffic control points, and available intelligent traffic monitoring systems • Easily defined evacuation zones coupled with a public awareness strategy • Zonal evacuation clearance times and/or shelter-in-place guidance designed for a range of possible point source, no-notice, and terrorist phased approach
<p>Regional Catastrophic Planning</p>	<p>Tetra Tech provides regional catastrophic planning services designed to promote regional coordination and communications between multiple jurisdictions to help them prepare and respond to an incident effectively as a region, and to initiate recovery activities almost simultaneously, while maintaining transparency for the public and elected officials.</p>
<p>Mass Care/Surge Capacity Planning</p>	<p>Using a worst-case scenario, Tetra Tech provides mass care/surge capacity planning services to identify a client’s strategy and current capabilities for mass evacuation and sheltering. The evacuation strategy is designed to take a phased approach, emphasizing special needs groups in hospitals and nursing homes and residents without access to transportation.</p>

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Service Offering	Description
Metropolitan Medical Response System (MMRS) Planning	Tetra Tech provides MMRS planning for clients designed to support the local jurisdiction in enhancing and maintaining its all-hazards response capabilities to mass casualty incidents. MMRS planning is intended for use during the early hours critical to life-saving and population protection during terrorist acts using weapons of mass destruction; chemical, biological, nuclear, radiological, and/or explosive (CBRNE) weapons; large-scale HAZMAT incidents; epidemic disease outbreaks; and/or natural disasters.
Volunteer Management Planning	Working closely with a lead volunteer agency for this effort, Tetra Tech develops volunteer management plans for client to be used to document the volunteer programs, training strategies, and available resources already defined under the Community Emergency Response Team (CERT) through its Citizen Corps.
Family Assistance Center (FAC) and Reunification Planning	Tetra Tech provides FAC and reunification planning to support displaced families in locating and reuniting with their loved ones following a crisis. It also serves to prevent confusion and disorder by ensuring the delivery of a single, concise message to the community and the media.
Emergency Management Accreditation Program (EMAP) Accreditation Support	Tetra Tech provides EMAP accreditation support to clients interested in becoming accredited in the program. This involves assessing a jurisdiction's emergency management program against the 64 EMAP standards to identify potential gaps and deficiencies. This allows the jurisdiction to remedy gaps in preparation for an assessment by an EMAP accreditation team.
Strategic Planning	Tetra Tech provides emergency management organizations with strategic planning to set the course and direction of a jurisdiction or agency. It defines the vision, mission, and long-term goals, objectives, and milestones of the jurisdiction.
Disaster Debris Management Planning	Tetra Tech provides comprehensive disaster debris management planning services to organizations inclusive of developing the jurisdictional structure, guidance, and standardized procedures for the clearance, removal, and disposal of debris caused by a major debris-generating event in the most cost-effective and efficient manner.
Information Technology Disaster Recovery (ITDR) Planning	Tetra Tech provides ITDR planning involving a systematic inventory and prioritization of communications systems, including telephones, voicemail, facsimile, data lines, network access, Internet access, wireless communications and PDAs, and application software and hardware.

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Service Offering	Description
Crisis Communication/Public Information Planning	Tetra Tech provides crisis communication/public information planning to media relations groups or organizations, through the establishment of the joint information center, to develop templates for public information and to create a public information guide.
HAZMAT Commodity Flow Studies and Local Emergency Planning Committee (LEPC)	Tetra Tech provides HAZMAT commodity flow studies and develops LEPCs, which involves a risk assessment of the types and amounts of hazardous materials being transported in and through a jurisdiction via highway and rail corridors and fixed facilities located within a jurisdiction.
Crisis Planning for Higher Education	Tetra Tech provides crisis planning for colleges and universities to assess risk, set priorities, and develop an actionable plan that can be readily executed in the event of an emergency in order to protect a school's students, faculty, facilities, and research, which form the backbone of the institution.
Training, Testing, and Exercise Planning	Tetra Tech assists clients with training, testing, and exercise planning for emergency management scenarios and topics. This involves a systematic approach to train, test, and exercise a jurisdiction's emergency management program and response capabilities in a non-threatening environment, and to identify the work that needs to be done to comply with FEMA, Homeland Security Exercise and Evaluation Program (HSEEP), and other regulatory guidelines.
Integrated Planning and Management System	Tetra Tech provides Integrated Planning and Management System (IPMS) for clients to include developing baseline, scheduling, risk management, cost estimating, funds and financial management, performance analysis and monthly reports, and what-if analyses.
Internet/Computer-Based Training (IBT/CBT)	Tetra Tech prepares stand-alone computer-based training for individual client's needs and Internet-based training to meet the needs of on-demand and geographically diverse training requirements.
Asset Management	Tetra Tech's asset management solutions help clients integrate planning, scheduling, and tracking of maintenance requirements, enterprise resource planning, supply chain management, inventory management, procurement, Radio Frequency Identification (RFID)/Unique Identification (UID) execution, reference management, and training management. Our customized solutions integrate external financial and resource management systems.
Operations Center Services	Tetra Tech provides emergency operations center support services for local, regional, and state organizations. These services include 24/7/365 support, C4I and situational awareness, custom emergency management system, and classified environments.

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Service Offering	Description
Shared/Integrated Digital Environments (SDEs/IDEs)	Tetra Tech develops a range of customizable SDEs/IDEs to provide portals to our project/program teams that are web-accessible and managed to provide authorized users access to all relevant materials/data in a user-friendly environment. In addition to being a knowledge base of programmatic information, these tools often provide configuration data, task order management, action tracking, user forums, deliverable tracking, financial management, asset information, etc., in support of the program requirements.
Occupational Health and Safety (OHS) Planning	Tetra Tech's OHS planning services include conducting worker risk assessments, identifying appropriate methods for worker protection, developing written health and safety programs, conducting training needs assessments, and developing instructor-led and computer-based training programs.
Ebola and Other Special Emerging Pathogens (SEPATH) Planning	Tetra Tech's Ebola and SEPATH planning services include community partners across the healthcare continuum to work together to develop strategies for managing and caring for individuals who are known or suspected to be infected with a SEPATH. This includes planning for isolation and quarantine, transportation of persons under investigation (PUIs), worker protection, infectious waste management, and decedent handling.
Mass Fatality Planning	Our team's mass fatality planning services involve working with coroners, emergency medical services, funeral directors, public health departments and other partners to assess a jurisdiction's ability to handle mass casualty incidents and developing strategies for strengthening this capability.
Responder and Disaster Worker Health and Safety	To help ensure the safety of first responders and disaster workers, Tetra Tech provides worker risk assessments, activity hazard analysis, and just-in-time health and safety training, including Hazardous Waste Operations and Emergency Response (HAZWOPER) training. Tetra Tech provides field operations safety monitoring, air monitoring and sampling support, and fit testing. We can also serve as site safety officers and provide safety staff support services.
Community Rating System (CRS) Assessment	Tetra Tech assists clients with conducting baseline assessments for communities interested in obtaining or improving their CRS rating. A programmatic baseline assessment looks at a community's floodplain management program prior to a Community Assistance Visit (CAV) to identify issues that may render a community out of compliance under the National Flood Insurance Program (NFIP).

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Service Offering	Description
CRS Application	Tetra Tech assists clients with compiling the appropriate documentation for submitting an application to the CRS program. This may include interface with FEMA’s Insurance Services Office (ISO) and meeting with NFIP or FEMA during CAVs.
Repetitive Loss Area Analysis	Tetra Tech assists clients with developing a Repetitive Loss Area Analysis (RLAA) as a systematic approach to analyzing the causes of repetitive flooding, structures impacted, and possible mitigation solutions by using the FEMA-identified RL properties as geographic locator for the issue.

Debris Program Management Consulting Services

Tetra Tech has helped over 250 clients recover from the damaging effects of hurricanes, tropical storms, floods, and ice storms across the country. Tetra Tech has successfully managed all phases of debris removal and associated reimbursement efforts, including the removal of and reimbursement for over 69 million cubic yards of debris, as well as the demolition of uninhabitable residential structures. We have helped local governments obtain over \$3.5 billion in reimbursement funds.

Table C-2. Debris Program Management Consulting Services

Service Offering	Description
Comprehensive Program Management	Tetra Tech’s comprehensive program management involves providing the resources, personnel, and experience to manage all aspects of a disaster recovery project, including post-event reconstruction and demolition field services.
Disaster Debris Removal Procurement and Negotiations	Our services include assisting clients with disaster debris removal procurement and negotiations involves helping communities to develop the procurement process and contract documents to retain debris and construction contractors, and to negotiate terms and conditions to put enforceable agreements in place.
Collection Monitoring	Tetra Tech provides clients with staff to conduct collection monitoring involving the oversight of the debris collection process, including truck certification, route development, ticket preparation and documentation for FEMA-reimbursable loads. This service has the option of utilizing our Automated Debris Management System (ADMS) RecoveryTrac™.
Disposal Monitoring	Tetra Tech provides disposal monitoring involving the oversight of debris disposal operations, including providing the volumetric measurement of incoming loads, authorizing tickets, and completing the documentation required for FEMA-reimbursable loads. This service has the option of utilizing our ADMS RecoveryTrac™.

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Service Offering	Description
Hazardous Waste Collection, Disposal, and Monitoring	Tetra Tech provides hazardous waste collection, disposal, and monitoring, which involves designing hazardous waste removal programs that efficiently address specific emergencies, including animal carcass removal, asbestos-laden building material removal, Freon unit removal, and paint and chemical segregation and removal. This service has the option of utilizing our ADMS RecoveryTrac™.
Leaner/Hanger/Stump Removal Monitoring	Tetra Tech provides leaner/hanger/stump removal monitoring involving surveying, documenting, and monitoring the removal of leaning trees, hanging limbs, and stumps. This service has the option of utilizing our ADMS RecoveryTrac™.
Debris Management Site (DMS) Environmental Support	After disasters, Tetra Tech’s team provides DMS environmental support to clients for obtaining documentation and assisting in the performance of all required testing by federal, state, and local agencies to support the establishment of DMS locations.
Beach Remediation/Restoration	Tetra Tech provides beach remediation/restoration monitoring services for work associated with sand screening, sand recovery, beach reconstruction, and dredging operations to restore natural beaches.
Private Property Debris Removal (PPDR) Program Administration	Tetra Tech’s PPDR program administration services for clients involves reviewing ordinances and laws to ensure that the proper steps are taken and documented in removing debris from private property. This includes eligibility reviews, property surveys, monitoring, and providing public information.
Waterway Debris Removal Monitoring	Tetra Tech provides waterway debris removal monitoring and documentation for debris removed from navigable and other inland waterways.
Field Data Collection/ Management/Billing/Invoicing	Tetra Tech can augment our client staff tasked with data collection and management as well as billing and invoicing. This service includes developing and maintaining databases to document all field operations to ensure proper contractor payment, maximum reimbursement, and proper purchase order management.
Data Management	Tetra Tech’s web-enabled data management systems provide cradle-to-grave life cycle data management for a program or specific disaster. Designed to meet all industry standards for relational databases, our systems enable users to easily find the right data in real time for our clients.

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Service Offering	Description
Customer Information/Citizen Hotline/Community Relations	Tetra Tech provides customer information/citizen hotline/community relations for clients after a disaster. This includes advising the public about important information regarding procedures associated with debris collection and removal, and providing updates about the operational progress being made to restore the community.
Emergency Responder Website Services	Our local information technology (IT) services within Tetra Tech supports our client’s full IT life cycle and content management needs. This includes content on many FEMA emergency responder websites, such as the Responder Knowledge Base (RKB), System Assessment and Validation for Emergency Responders (SAVER), and the Lessons Learned Information Sharing (LLIS).
Data Collection	Tetra Tech has a proven track record in data acquisition from systems and sensors and the ability to present this data in a well-defined manner through a host of application types and architectures. Once the data is acquired and housed in a relational database, Tetra Tech provides the analysis and trending capabilities that often accompany the federal grant requirements for our clients.

Grant Administration and Disaster Recovery Management Services

Tetra Tech’s team of grant administration and disaster recovery management services was established to provide grant funding consultation before and after a disaster. With a keen understanding of Office of Management and Budget (OMB) regulations, this team seeks to establish accounting systems and internal controls for its clients to minimize the instance of fraud, waste, abuse, and mismanagement of grant funds. We offer a staff of experts, with advanced degrees in business, administration, economics, and finance, as well as hands-on experience in the field. Funding sources include the FEMA Public Assistance (PA) Program, Individual Assistance (IA) Program, Hazard Mitigation Grant Program (HMGP), U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Program (CDBG), U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS); and many others. We guide our clients through the complexities of program procedures and requirements, which often are not consistently interpreted by local, state, and federal government agencies.

Table C-3. Grant Administration and Management Services

Service Offering	Description
FEMA Reimbursement Technical Assistance Consulting	Tetra Tech’s FEMA reimbursement technical assistance consulting services involve providing guidance and technical assistance for project applications and programs for disaster reimbursement related to response and recovery efforts on behalf of our clients.

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Service Offering	Description
FEMA Compliance Monitoring and Audit Oversight	Tetra Tech’s grant administrators document eligible work in the field and organize such documentation in an audit-ready format for future review. This includes OMB, FEMA and HUD guidance requiring that grantees or subgrantees monitor the expenditure of funds and document such expenditures in a manner that will satisfy regulatory audits in the future. This includes Section 3, Fair Housing, 2 CFR 200, and other Federal grant requirements.
IA Services	Tetra Tech assists clients with application intake, case management, grant administration, staffing at Disaster Recovery Centers, expenditure monitoring, and other programmatic needs associated with the IA declaration.
PA Services	Tetra Tech’s team of PA consultants assists our clients with documenting and accounting for such costs on project worksheets. This includes providing technical assistance on FEMA’s rules, practices, and procedures covering reimbursement for temporary and permanent work in eligible FEMA categories.
Grant Application Development and Administration (CDBG, HMGP, FHWA, NRCS, FTA, FEMA PA, and FEMA IA)	Tetra Tech provides grant application development and administration involves providing grant program specialists to assist with the time-consuming process of gathering data and information required to develop grant applications to various agencies and programs.
HUD CDGB-DR Services	Tetra Tech provides knowledge, experience, and technical competence in the planning, administration, and implementation of eligible CDBG activities as identified at 24 CFR 570 and modified or waived under the Federal Register allocation of the CDBG-DR funds.
Unmet Needs Assessment	Tetra Tech assists clients with developing unmet needs assessments that identify type and location of the community’s disaster recovery needs especially in the three core aspects of recovery: housing, infrastructure, and economic recovery.
Policies and Procedures Manual Development	Tetra Tech assists client’s Project Management and Operations including the ability to develop policies and procedures for implementing all CDBG-DR funded programs and activities, including contractor, subcontractor, and sub-recipient oversight and monitoring.
Damage Assessment	Tetra Tech assists clients with damage assessment activities involving deploying a team of experienced staff to document damage sustained during a disaster in a format that is acceptable for requesting FEMA PA funds.

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Service Offering	Description
Eligibility Consultation	Tetra Tech provides eligibility consultation involves providing grant recipients with an understanding of funding options and preferences for repairs as they relate to various grant program eligibility considerations.
Project Ranking	Tetra Tech assists clients with ranking potential projects for future consideration through federal grants. This includes providing grant recipient constituents with a prioritized plan of action for reconstruction and mitigation projects to achieve recovery objectives.
Financial Advisory	Tetra Tech provides financial advisory services involving the development of program budgets to provide transparency to grant recipients relating to the local cost share, the financial burden, and obligations for program participation.
Cash Flow Management	Tetra Tech provides financial departments within an organization with cash flow management associated with the disbursement of federal grants. This includes developing program budgets to allow grant recipients to meet current obligations with minimum reliance upon bridge financing.
Procurement Assistance	Tetra Tech provides procurement assistance to our client's including providing procurement experts to provide disaster contracting guidance to review scopes, adherence to grant funding requirements and 2 CFR 200, and satisfactory project completion.
Benefit Cost Analysis	Tetra Tech develops benefit cost analysis involving a formalized schedule of anticipated project costs to projected future benefits to establish a quantifiable means for understanding project value.
Feasibility and Effectiveness Studies	Tetra Tech provides feasibility and effectiveness studies involving the documentation of projects being considered are financially sound, reasonable to implement, and effective at mitigating future damage. This includes alternate projects, improved projects, or 406 mitigation proposals to include hydrological and hydraulic (H&H) feasibility studies, cost estimating and conceptual project designs.
Floodplain Feasibility Modeling	Tetra Tech can provide clients with modeling of natural or manmade above ground waterways is used to determine where to place critical facilities including roads, bridges, and emergency operations centers. Readily applicable models such as HEC-RAS (FEMA standard flood modeling) provide quick answers to what if scenarios. This may include basic modeling using spreadsheets or software program or more in-depth modeling utilizing GIS tools.

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Service Offering	Description
Advanced Feasibility Modeling	Tetra Tech can provide clients with advanced modeling is typically used to answer challenging questions that involve complex flooding, erosion, scour and debris. 2-D and 3-D hydrodynamic and water quality models for rivers, streams, lakes, and estuaries help to determine permitting approaches that meet project time frames and guide the project path around pitfalls.
Site Survey and Legal Description Review	Tetra Tech provides site survey and legal description review to clients by providing grant recipients with assurances that private property access is carried out legally without exposing it to unnecessary liability.
Owners Representative Services	For projects in the construction phase, Tetra Tech provides Owner’s Representative advising services to our clients. These tasks may include projects interface with federal and state officials, PW versioning, and providing oversight to the construction firm.
Appraisal and Valuation Services	Our team can assist clients with appraisal and valuation services utilizing industry best practices to develop property appraisal and valuation documentation for acquisition programs.
Title Due Diligence	Tetra Tech’s title due diligence services for our clients involves ensuring that only the legal property owner is consulted for program acquisition program participation.
Public Outreach Program	Tetra Tech provides public outreach programs that provides citizens with an outlet to ask questions, state concerns, and apply for program participation without burdening grant recipient staff and facilities.
Public Meeting Facilitation	Tetra Tech provides public meeting facilitation services including documenting meeting notices, fostering public participation and communicating the message of our clients.
Homeowner Consultation	Tetra Tech’s homeowner consultation involves providing a high level of service to citizens without burdening grant recipient staff with after-hours and weekend meetings for programs involving acquisition/demolition, relocation, elevations or small repairs after disasters.
Relocation Assistance	Tetra Tech provides relocation assistance associated with acquisition or relocation programs. This includes engaging participants by providing relocation assistance conforming to Uniform Relocation Act (URA) rules and regulations.
Property Management	Tetra Tech provides property management services to clients who are grant recipients following disasters. This service includes program management to ensure that properties do not degrade to cause blight during the interim purpose phase.

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Service Offering	Description
Negotiations	Tetra Tech provides negotiation services in systematic, third-party approach for reaching amicable terms between citizens and the grant recipient.
Closing	Tetra Tech provides closing involving dedicating consultant resources to ensure a timely and efficient closing process during a buyout program.
Data & Documentation Management	Tetra Tech provides data and documentation management by storing grant-related data in a manner that provides efficient recall and review during closeout and auditing.
Hazard Mitigation Proposals	Tetra Tech develops of 406 Hazard Mitigation proposal associated with a written Project Worksheet after disasters to those entities participating in the FEMA PA program.
Contractor Invoice Reconciliation	Tetra Tech assists clients' with contractor invoice reconciliation involves ensuring accurate payment to contractors and assigning incurred costs to funding sources to minimize local cost share.
Regulatory Compliance Monitoring	Tetra Tech provides regulatory compliance monitoring by documenting proper regulatory compliance to ensure maximum reimbursement and to avoid fines and site shutdowns, which slow the recovery process.
Project Scoping	Tetra Tech's grant reimbursement team can create scoping documents that involve developing scopes of work for grant funding projects, using key terminology, and highlighting awareness of historical precedence, which maximizes grant funding opportunity.
Insurance Adjusting/Subrogation	Tetra Tech provides insurance adjusting/subrogation to clients to proactively resolve insurance issues prior to a grant de-obligation.
Eligibility Appeals	Tetra Tech assists clients with eligibility appeals involve assisting clients with developing strategies and documentation to overturn a de-obligation ruling during first or second appeals.
Grant Closeout	Tetra Tech assists client's years after a disaster by providing closeout services to a grant recipient. This includes developing a closeout package that is organized to satisfy grant closeout and auditing.
HUD Action Plan Development	Tetra Tech assists clients with the development and submission of HUD required Action Plan for Disaster Recovery grant. These tasks may include the development of Action Plan amendments or waivers that may be required.
Unmet Needs Analysis	Tetra Tech develops unmet funding needs analysis to document the need for CDBG-DR funding and to form the basis of program design for the use of CDBG-DR funds.

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Service Offering	Description
Emergency Operations Center Staff Augmentation	Tetra Tech can support our client’s needs upon activation of a EOC by providing staff trained in incident management system (ICS) as section chiefs or operational staff.

Long-Term Recovery Planning and Economic Development

As part of or in addition to CDBG-DR funded recovery, communities, businesses, counties, states, and regions may engage in long-term recovery planning and economic development to rebuild but also to foster growth from the “new norm” following an economic downturn. Tetra Tech planners, economic development professionals, financial and budget analysts, and funding strategists can conduct this planning and implementation. These staff also assists communities in the long-term planning for their economic growth through the planning and prioritization process.

Table C-4. Long-Term Recovery Planning and Economic Development

Service Offering	Description
Long-Term Recovery Planning	Tetra Tech prepares a long-term recovery plan that strategically defines the magnitude of the disaster, identifies both recovery and resiliency projects, involves the public, creates a process for prioritizing the projects, and defines an implementation strategy for projects. This multi-year strategic plan will be used by the community to attract financial assistance to implement their recovery efforts.
Economic Development	Tetra Tech assists clients with all aspects of planning to create focused strategic plans that include input from key stakeholders; analysis of data and statistics; economic impact, real estate, market and other quantitative analysis; project identification and prioritization; detailed implementation steps; examination of land use controls and codes; identification of opportunities for incremental success; and creation of definable and quantifiable goals in order to measure success. For communities with redevelopment opportunities, this also involves the creation of redevelopment plans to enhance key areas.
Land Use Planning	Projects offered to Tetra Tech under this arena include: <ul style="list-style-type: none"> • Comprehensive Planning • Sustainable Community Plans • Resiliency Planning • Urban Reinvestment • Sustainable Development Tools

Emergency Network and Response Services

Tetra Tech provides first response communication services to public safety organizations, wireless carriers, broadcasters, cable operators and other communication service providers. We have provided equipment, planning, management, logistics support, repairs, replacement, temporary facilities, on-site technical support, rental equipment, and numerous other services to our clients in emergency situations and are well prepared for future needs. We consider ourselves first responders and are relied upon by our public safety clients for emergency support services in addition to planned activities. Our strict

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employment criteria, including background checks, allows our staff access to the most sensitive locations and installations across the country.

Table C-5. Emergency Network Support Services

Service Offering	Description
Emergency response and support	<ul style="list-style-type: none"> • Rapid site deployment • TEMP microwave system deployment, including equipment rental • TEMP command center, shelters, and trailers • TEMP LMR deployment • TEMP LTE deployment • Deployment and rentals of Communications on Wheels (COW – Temp Towers) • On site tech support • Management, monitoring, and logistics • Site and tower damage inspections and audits • TEMP power and telco facilities • Fueling and stocking • Storage • Site, building, and tower repairs • Emergency equipment replacement • Material/equipment procurement, testing, and tracking • Site cleanup and restoration • Site development and re-builds, including planning through construction • Command vehicle support and repairs • Surveillance system support and deployment • Security

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<ul style="list-style-type: none"> • Planning, engineering, and management services 	<ul style="list-style-type: none"> • Design visit • Drawings to include all detail needed to build site including (site plan, electrical, telco, and grounding details, RF antenna plan, etc.); typically 12-20 sheet set • P.E. stamp and seal • AutoCAD drawing file and hard copies (2) 11" x 17" sets, and (2) 22" x 34" sets if required • Drawing to include all detail required for zoning / permitting (cover sheet, site plan, elevation, etc.); typically 2-3 sheet set • Structural analysis of existing structure (rooftop, water tower, self-support, monopole, etc.) • Acquire documentation to complete structural analysis • Coordinate with site owner if they perform their own analysis • Adhere to current EIA-TIA-222 (Rev G or latest in effect) • Load case analyzed per structural analysis • Provide structural modification design of existing structure • Stamped and sealed by state licensed P.E. • Adhere to current EIA-TIA-222 (Rev G or latest in effect) • One revision to drawings • Acquire documentation from owner if readily available to complete structural evaluation • Provide structural evaluation letter to owner/client • Adhere to current EIA-TIA-222 (Rev G or latest in effect) • Stamped and sealed by state licensed P.E. • One bore at the center of the tower (Monopole) or at each tower leg (Self-Support Tower) • One bore within the footprint of the equipment shelter/pad location • Complete geotechnical report of lab findings and recommendations for proposed foundation sealed by a P.E. in the state where site is located • All samples and testing per project specification and latest revisions
<p>Audits, inspections, and maintenance services</p>	<ul style="list-style-type: none"> • Complete tower inventory • List of all attachments on tower (including antennas, dishes, omnis, mounts, lights, etc.) • Models and manufacturer, azimuths, heights, cables, and sizes • Digital photographs (minimum of 1 per appurtenance) • Upload of data to a cloud based collection server in Excel format • Includes mobilization • Remedy Major Defects within 24 hours • Remedy Minor Defects within 10 days unless mutually agreed upon for deferment to a later date

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Microwave services	<ul style="list-style-type: none"> • LOS surveys, donor searches and site selection • System design, engineering, coordination, and licensing • Antenna system installation and testing • Radio system installation, testing, and integration • Factory, bench, field testing, and acceptance • Complete system rental and leasing • System upgrades • Emergency support, troubleshooting, and maintenance
Tower erection and modifications	<ul style="list-style-type: none"> • Self-support towers, guy tower, and monopole towers • Monopoles, monopines, monopalms, and other custom poles • Flag poles, stealth poles, crosses, and other custom designs • Custom design, fabrication, and installation of various steel structure types • Tower/pole extensions • Custom mounts • Tower upgrades • Demo and dismantling
Civil construction services	<ul style="list-style-type: none"> • Site clearing • Grading • Access road installation • Coordination of utilities • Generator foundations • Coordinating the transporting and setting of equipment shelters • Grounding • Fencing • Landscaping
Building upgrades	<ul style="list-style-type: none"> • Structured cabling systems, data centers, electronic security systems, audi video systems as well as wireless and in-building cellular systems
Electrical systems, including AC/DC power and battery back up	<ul style="list-style-type: none"> • Single-phase and three-phase primary, secondary, service, and streetlight conduit and electric cable installation • Switchgear, transformer pad, and pedestal placement • Transformer and pedestal dig-ins • Transformer change outs • Manhole, hand hole, vault & pull box placements • HDPE & PVC conduit/pipe placement • Underground excavation methods with horizontal directional drilling (HDD) expertise • Vacuum excavation • Rock boring • Concrete encasement • Cable pulling • Electric cable termination • Emergency services

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Generator systems	<ul style="list-style-type: none"> • 100kw emergency generator deployment • Refueling • Emergency generator rental
Troubleshooting	<ul style="list-style-type: none"> • General site and tower maintenance • Electrical, generator, and backup power systems • DC power and solar systems • Antenna systems • BTS, radios, filters, amplifiers, and diplexers • Microwave systems • Transmission lines, jumpers, and connectors • Building/shelter maintenance • HVAC • Access roads and easements • Control and monitoring systems • Lighting systems • Camera and video systems • Telco and fiber
Site development and real estate services	<ul style="list-style-type: none"> • Special lease review • Tower foundation design report • Field visit • Visual inspection of suspect materials • Collection of sample materials for asbestos content up to 10 samples • Quantify friable and non-friable material • Identification of lead based paint building materials • Sample removal and testing of up to 5 LBP samples • Review existing records • Compile report based upon findings • Review file for current zoning approval (number of antennas, growth etc.) • Review file for as builds • Call to jurisdiction to see if specific scope of work requires zoning as required by the jurisdiction: • Landscape Plan • Photometric Plan • Irrigation Plan • Grading Plan • Custom title block and borders specific to jurisdiction • Multiple Elevation Views • Notes, tables, statements, approval blocks required by specific jurisdictional zoning code

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Software Application Development	<ul style="list-style-type: none"> • Cyber-Security: SSL3/TLS 1.x, ISO/IEC 27001 • Mobile App Development: iOS-iPhone/iPad, Objective-c, Swift 2.0, Android, Java, Mobile Responsive Web, HTML5, CSS3, Javascript • Solutions Architecture: Unix/Linux, MySQL, PostgreSQL, MongoDB, Content Management Systems (CMS), Drupal, Wordpress, Joomla, API's, JSON/XML • Hosting Providers: Amazon Elastic Cloud Computing (EC2), Redundancy w/ Auto-Failover • Applications Overview: Weapons of Mass Destruction (WMD) Response, Natural Disaster Response, Fire Department Responders, Police Department Responders, Emergency Medical Responders, Federal Agency Responders, National Guard
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Vulnerability/Hazard Identification/Risk Assessment Services

Tetra Tech has a multidisciplinary team of toxicologists, chemists, ecologists, biologists, geologists, modelers, data managers, and environmental scientists that provide environmental risk expertise to the public and private sectors. Many of our scientists have graduate-level degrees and contribute to the scientific community by publishing in peer-reviewed journals and participating in presentations at national conferences of technical and professional organizations.

Table C-6. Vulnerability/Hazard Identification/Risk Assessment Services

Service Offering	Description
Hazardous Identification and Incident Response	Tetra Tech provides turnkey planning, design, construction interface, and training for infrastructure security enhancement projects. Initiating the security solution is an objective VAs against industry and government standards, incorporating threat assessment, facility prioritization, consequence determination, systems effectiveness, risk reduction and mitigation, and limitations.
Ecological Risk Assessments	Tetra Tech provides risk assessment staff to conduct retrospective and predictive ecological risk assessments (ERAs) for commercial clients in aquatic and terrestrial environments. These ERAs span the range of desktop screening-level evaluations versus baseline ERAs that incorporate site-specific biological data.
Comprehensive Environmental Response, Compensation & Liability Act of 1980 (CERCLA) and Resource Conservation and Recovery Act (RCRA) Evaluations	In addition, Tetra Tech provides CERCLA risk assessments and RCRA Tier 2 and 3 risk-based evaluations to support contaminant characterization and cleanup efforts. This includes conducted risk assessments to evaluate chemical and radiological exposures to humans and to various aquatic and terrestrial species of fauna and flora. Tasks would include statistical analysis, development of conceptual site models, risk calculations, modeling, and derivation of site-specific cleanup objectives for soil, groundwater, air, surface water, and sediment.
Vulnerability Assessments (VAs)	Tetra Tech has completed municipal water system VAs that utilize a pair-wise comparison approach to identify critical facilities and

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Service Offering	Description
	critical assets needed to maintain safe drinking water supplies. Tetra Tech also has implemented security enhancements that reduce the likelihood that a water system could be severely compromised as a result of a malevolent act. The terrorist response scenarios developed during VAs can be incorporated into the emergency contingency plan for incident response using a “rip and run” philosophy for easy use.

Environmental Services

Tetra Tech is passionate about mitigating global climate change. Customers seek our deep domain expertise in subjects as diverse as environmental, solid waste, water resources and atmospheric sciences, policy analysis, IT, and energy-efficient design-build services.

Table C-7. Environmental Services

Service Offering	Description
HUD/FEMA Environmental Reviews	Tetra Tech supports our clients of the wide range of disaster recovery, hazard mitigation, and other types of projects funded by HUD and FEMA, Tetra Tech provides comprehensive environmental and historic preservation review support. In addition to preparation of documents under the National Environmental Policy Act (NEPA), we assist in compliance with related laws, regulations, and Executive Orders.
Decontamination	Tetra Tech’s also provides field services for clients facing decontamination projects throughout the nation. Tasks under this category include: Technical oversight, characterization and disposal of radioactive residues, radiation safety program management, documentation of site conditions, Radiological surveys, and internal dose assessment calculations to document the risk and dose to personnel from the contamination
Climate Change Adaptation	Tetra Tech provides climate change adaptation study services to reduce risk and vulnerabilities for our clients. This includes: <ul style="list-style-type: none"> • Development of climate action plans and sustainability strategies • General reporting and verification • Comprehensive climate change response • Technical guidelines on transportation emissions, industrial process emissions, and indirect emissions
Restoration and Remediation	Tetra Tech assists clients with a variety of restoration and remediation professional services prior to or after disasters, including: <ul style="list-style-type: none"> • Environmental site investigations • Risk assessment • Fate and transport modeling • Performance-based remediation • Radiological decontamination and decommissioning • Ecosystem restoration

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Service Offering	Description
	<ul style="list-style-type: none">• Geographic information systems (GIS)• Site restoration and remediation• Due diligence assessments• Remedial system design/construction• Remedial process optimization• Construction management• Environmental compliance• Chemical/fuels and waste management• Regulatory support/expert witness services• Liability transfer model• Third-party review – remedial strategies• Geophysical services

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**EXHIBIT B
TETRA TECH, INC.
Hourly Labor Rates**

To the extent that H-GAC or any of its end users request Tetra Tech’s assistance, the following positions and hourly rates shall apply. The fees for these services can be provided on a fixed fee or time and materials basis plus reasonable non-labor expenses. Such non-labor expenses shall be invoiced as follows: (1) travel expenses including airfare and car rental shall be invoiced at cost without mark-up; (2) lodging shall be invoiced up to the per diem rate according to the General Services Administration (GSA) rates established at www.gsa.gov (3) meals and incidentals shall be invoiced at the GSA per diem rate (no receipts are required); (4) mileage shall be invoiced at the federally published rate; (5) field documents and other equipment/supplies shall be invoiced at cost without mark-up; and (6) other required non-labor expenses as may be applicable to the project and pre-approved by Tetra Tech and the Client shall be invoiced at cost without mark-up.

Table B-1. Debris Program Management Hourly Rates

Category	Hourly Rate
Field Project Manager	\$75.00
Operations Manager	\$60.00
Health and Safety Officer	\$59.00
Data Manager	\$55.00
GIS Analyst	\$49.00
Field Supervisor	\$45.00
Billing/Invoice Analyst	\$39.00
Disposal Site Monitor	\$35.00
Collection Monitor	\$35.00
Project Coordinator	\$34.00
Load Ticket Data Entry Clerk	\$32.00
Call Center Staff	\$32.00

Electronic Ticketing Device: As an optional service, Tetra Tech can provide electronic ticketing devices for an additional \$3.00 per hour to specific labor categories to cover the costs associated with using Tetra Tech’s ADMS. The specific labor categories include operations manager, data manager, field supervisor, disposal site monitor, and collection monitor. The use of Tetra Tech’s ADMS is at the discretion of the client. Special costs such as boat rental and marine expenses shall be billed at cost without mark-up.

Table B-2: Homeland Security and Emergency Management Consulting/Planning Hourly Rates

Category	Hourly Rates
Administrative Specialist I	\$40.00
Administrative Specialist II	\$48.00
Research Assistant	\$51.00
Proposal Coordinator	\$53.00
Comm. Technician	\$57.00
Help Desk Operator	\$62.00

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Category	Hourly Rates
Administrative Specialist III	\$64.00
Research Assistant II	\$66.00
Service Center/Logistics Specialist	\$68.00
Analytical Aide	\$75.00
Planning Aide	\$80.00
Project Control Specialist	\$83.00
Oracle Database Administrator	\$85.00
Consulting Aide	\$85.00
Assistant Planner/ Scientist/Assessor/Analyst/ Environmental Specialist	\$95.00
Program Planner/ Scientist/Assessor/Analyst/ Environmental Specialist	\$100.00
System Administrator	\$105.00
Law Enforcement Subject Matter Expert/Trainer	\$110.00
Consultant/Planner/ Scientist/Assessor/Analyst/Environmental Specialist I	\$110.00
Public Assistance/Grant Management Consultant	\$115.00
Fire/HAZMAT Subject Matter Expert/Trainer	\$122.00
Project Manager/Consultant/Planner/ Scientist/Assessor/Analyst/Environmental Specialist II	\$125.00
Project Manager/Consultant/Planner/ Scientist/Assessor/ Environmental Specialist Analyst III	\$135.00
Senior Public Assistance/Grant Management Consultant	\$135.00
Senior Oracle DBA	\$138.00
Senior Planner/ Assessor/Scientist/Analyst	\$145.00
Supervising Public Assistance Consultant	\$150.00
Senior Consultant/Planner/ Scientist/Assessor/Analyst/ Environmental Specialist	\$150.00
Supervising Consultant/Planner/ Scientist/Assessor/Analyst/Environmental Specialist	\$158.00
Program Manager	\$165.00
Senior Program Manager	\$175.00
Principal Consultant/Planner/ Scientist/Assessor/Analyst	\$195.00
Principal in Charge/Executive Consultant/Planner/Scientist/Assessor	\$225.00
Subject Matter Expert	\$244.00
Senior FEMA Appeals Legal Specialist	\$350.00

Table C-3: Emergency Network Support Services Hourly Rates

Category	Hourly Rate
Certified Radio Tech	\$90.00
Certified Lead Climber	\$90.00
Certified Climber	\$75.00
Site Acquisition Services	\$190.00
Application Developer	\$190.00