

Simmens, Amanda

From: Kamara, Betty <Betty.Kamara@tetratech.com>
Sent: Wednesday, July 20, 2016 4:31 PM
To: Simmens, Amanda
Subject: RE: Broward County Bid No. T211235B1
Attachments: Tetra Tech_Living_Wage_Ordinance_Requirements_and_Affidavit_Form (Executed).pdf; Corporate Resolution_Broward County, FL.pdf

Good Afternoon Amanda-

Per your below email, I have attached the following documents:

- Completed Living Wage form
- Corporate Resolution

Please contact me directly should you have any questions or need additional information.

Thank you,
Betty

Betty Kamara | Contracts Administrator
Direct +1 (321) 441-8518 | Mobile +1 (407) 803-2551 | Fax +1 (321) 441-8501 | betty.kamara@tetratech.com

Tetra Tech | Complex World, Clear Solutions™ | Emergency Management and Community Resilience Division

From: Simmens, Amanda [mailto:ASIMMENS@broward.org]
Sent: Friday, July 15, 2016 3:39 PM
To: Fajardo, Sandra <Sandra.Fajardo@tetratech.com>; Kamara, Betty <Betty.Kamara@tetratech.com>
Subject: Broward County Bid No. T211235B1

Good afternoon Tetra Tech,

Your bid submittal for Broward County Bid No. T211235B1, Disaster Debris Monitoring Services, is the apparent low bid received. The following are required no later than 5:00 p.m. on July 20, 2016 in order to be deemed responsive to the bid requirements. These should be sent to me by email.

1. Provide a revised Living Wage form. You must list any proposed full-time employees that may work on the contract and what the minimum hourly wages are for those employees (such as those listed on the proposed staff and management team portion of your submittal). I also attached the Living Wage instructions which were provided in the solicitation. The contract amount is equal to your bid (\$2,498,000). A link to the County's current Living Wage rates is available at <http://www.broward.org/Purchasing/Documents/Living%20Wage%20Rate%20Poster.pdf>
2. Provide a letter or other formal evidence authorizing Mr. Jonathan Burgiel to sign and legally bind Tetra Tech, Inc.. Mr. Burgiel is not listed as an officer of the company as recorded with the State of Florida.

Should you have any questions about these two items, please call or email me.

Thank you for your continued interest in working with Broward County.



Amanda M. Simmens, CPPB – Unit T
Construction Project Manager
Broward County Purchasing Division
115 S. Andrews Ave. Suite 212, Fort Lauderdale, FL 33301
Phone: 954-357-6549 Fax: 954-357-8257
www.broward.org/purchasing

Customer care is my priority. How am I doing? Please contact my manager, Martha Perez-Garviso, at MPEREZGARVISO@broward.org with feedback.

Under Florida law, most e-mail messages to or from Broward County employees or officials are public records, available to any person upon request, absent an exemption. Therefore, any e-mail message to or from the County, inclusive of e-mail addresses contained therein, may be subject to public disclosure.

CERTIFICATE
TETRA TECH, INC.

Broward County, Florida
Purchasing Division
115 S. Andrews Ave. Suite 212
Fort Lauderdale, FL 33301

I hereby certify to you that I am the duly elected and qualified Senior Vice President, General Counsel and Secretary of Tetra Tech, Inc., a Delaware corporation (the "Company"), and that, as such, I am authorized to execute this Certificate on behalf of the Company. I further certify to you on behalf of the Company that:

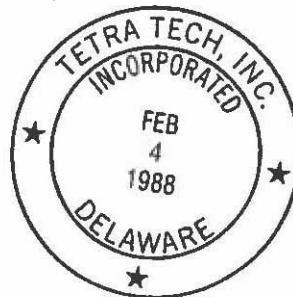
Jonathan Burgiel, EMI Division Operations Manager, within the Company's Water, Environment and Infrastructure business group, was authorized and empowered, in the name of the Company, in accordance with the Company's Signature Approval Authority Matrix, as approved by the Company's Board of Directors, for and on behalf of the Company, to sign proposals and bind the Company in contractual commitments.

IN WITNESS WHEREOF, I have hereunto set my hand as of this 20th day of July, 2016.

Janis B. Salin

Janis B. Salin
Senior Vice President, General Counsel and
Secretary

(Seal)



LIVING WAGE ORDINANCE COMPLIANCE AFFIDAVIT FORM

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes. Vendor should scan and upload the completed, signed form(s) in BidSync.

Covered Employer: Tetra Tech, Inc.

Address: 2301 Lucien Way, Suite 120, Maitland, FL 32751

Local Contact: Betty Kamara

E-Mail Address: betty.kamara@tetrattech.com

Address: Same as above

Contract Amount: \$2,498,000.00

Using Agency Served: Broward County, Florida

Solicitation No. and Title: Solicitation T2111235B1 for Disaster Debris Monitoring Services

By signing below I hereby certify that the covered employees listed below: (please check one)

- A. Receive a minimum pay of \$ 11.84 per hour and are provided health benefits valued at \$ 1.54 per hour.
- B. Receive a minimum pay of \$ _____ per hour and are not provided health benefits.

Provide names of hourly employees and their job classifications providing covered services for the above referenced contract:

Name	Job Class	<u>A</u> or B	Name	Job Class	<u>A</u> or B
<u>Jonathan Burgiel</u>	<u>Management</u>	Select	<u>John Buri</u>	<u>Management</u>	Select
<u>Ralph Natale</u>	<u>Management</u>	Select	<u>Dick Hainje</u>	<u>Management</u>	Select
<u>Oliver Yao</u>	<u>Management</u>	Select	<u>Anne Cabrera</u>	<u>Project Manager</u>	Select
<u>Jeff Dickerson</u>	<u>Management</u>	Select	<u>Phil Ivey</u>	<u>Field Operations Manager</u>	Select

(Attach additional sheets in the format above, if needed)

I, Jonathan Burgiel of Tetra Tech, Inc. hereby attest that
(Print Name) (Company)

(1) I have the authority to sign this notarized compliance affidavit, (2) the following information is true, complete and correct and (3) the Vendor certifies that it shall:

- a) Pay all employees working on this contract/project, who are covered by the Living Wage Ordinance, as amended, in accordance with wage rates and provisions of the Living Wage Ordinance;
- b) Provide the applicable living wage statement regarding wage rates with the employee's first paycheck or direct deposit receipt as required by the Living Wage Ordinance, as amended; and
- c) (IF APPLICABLE) If health care benefits are provided under "A" above, the health care benefit meets the standard health benefit plan as described in Section 627.6699 (12)(b)(4), Florida Statutes, as amended. As a principle officer of the covered employer, the undersigned affirms that the referenced Florida Statute has been reviewed and the covered employer's health plan meets all the elements required by the statute, as amended.

Jonathan Burgiel
Signature

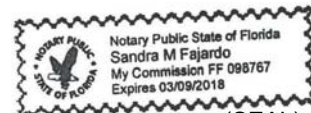
Vice President/Operations Manager
Title

SWORN TO AND SUBSCRIBED BEFORE ME this 20th day of July, 2016

STATE OF Florida

COUNTY OF Orange

Sandra Fajardo
Notary Public (Sign name of Notary Public)



My commission expires: _____ (SEAL)

Personally Known or Produced Identification Type of Identification Produced: _____

All documents prior to this page were provided at the request of the County and are supplements to the bid submittal

**Bid Tabulation Packet
for
Solicitation T2111235B1**

Disaster Debris Monitoring Services

Bid Designation: Public



Broward County Board of County Commissioners

Bid #T2111235B1 - Disaster Debris Monitoring Services

Creation Date **Mar 17, 2016**

End Date **Jul 15, 2016 2:00:00 PM EDT**

Start Date **Jun 21, 2016 5:01:26 PM EDT**

Awarded Date **Not Yet Awarded**

T2111235B1--01-01 Project Manager					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$85.00	1200 / hour	\$102,000.00	Y	Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes: Proposal attached.		

T2111235B1--01-02 Field Operations Manager					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$55.00	2400 / hour	\$132,000.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-03 Supervising Monitor					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$46.00	2400 / hour	\$110,400.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-04 Debris Management Advisor					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$70.00	2400 / hour	\$168,000.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-05 Roving Monitor					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$19.00	1200 / hour	\$22,800.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-06 Loading Site Monitor					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$33.50	10000 / hour	\$335,000.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-07 TDMS Site Monitor					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$29.00	35000 / hour	\$1,015,000.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-08 Data Manager					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$49.00	2400 / hour	\$117,600.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-09 Ticket Data Entry Clerk					
---	--	--	--	--	--

Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$17.00	10000 / hour	\$170,000.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-10 GIS Analyst					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$45.00	480 / hour	\$21,600.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-11 Environmental Specialist					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$49.00	1200 / hour	\$58,800.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-12 Administrative Assistant					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$25.00	4800 / hour	\$120,000.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

T2111235B1--01-13 Billing/Invoice Analyst					
Supplier	Unit Price	Qty/Unit	Total Price	Attch.	Docs
Tetra Tech, Inc	First Offer - \$52.00	2400 / hour	\$124,800.00		Y
Product Code: Agency Notes:			Supplier Product Code: Supplier Notes:		

Supplier Totals

Tetra Tech, Inc	\$2,498,000.00 (13/13 items)
Bid Contact Betty Kamra sandra.fajardo@tetrattech.com Ph 321-441-8518	Address 2301 Lucien Way, Suite 120 Maitland, FL 32751
Agency Notes:	Supplier Notes:

**

Tetra Tech, Inc

Bid Contact **Betty Kamra**
sandra.fajardo@tetrattech.com
Ph 321-441-8518

Address **2301 Lucien Way, Suite 120**
Maitland, FL 32751

Item #	Line Item	Notes	Unit Price	Qty/Unit		Attch.	Docs
T2111235B1--01-01	Project Manager	Supplier Product Code: Supplier Notes: Proposal attached.	First Offer - \$85.00	1200 / hour	\$102,000.00	Y	Y
T2111235B1--01-02	Field Operations Manager	Supplier Product Code:	First Offer - \$55.00	2400 / hour	\$132,000.00		Y
T2111235B1--01-03	Supervising Monitor	Supplier Product Code:	First Offer - \$46.00	2400 / hour	\$110,400.00		Y
T2111235B1--01-04	Debris Management Advisor	Supplier Product Code:	First Offer - \$70.00	2400 / hour	\$168,000.00		Y
T2111235B1--01-05	Roving Monitor	Supplier Product Code:	First Offer - \$19.00	1200 / hour	\$22,800.00		Y
T2111235B1--01-06	Loading Site Monitor	Supplier Product Code:	First Offer - \$33.50	10000 / hour	\$335,000.00		Y
T2111235B1--01-07	TDMS Site Monitor	Supplier Product Code:	First Offer - \$29.00	35000 / hour	\$1,015,000.00		Y
T2111235B1--01-08	Data Manager	Supplier Product Code:	First Offer - \$49.00	2400 / hour	\$117,600.00		Y
T2111235B1--01-09	Ticket Data Entry Clerk	Supplier Product Code:	First Offer - \$17.00	10000 / hour	\$170,000.00		Y
T2111235B1--01-10	GIS Analyst	Supplier Product Code:	First Offer - \$45.00	480 / hour	\$21,600.00		Y
T2111235B1--01-11	Environmental Specialist	Supplier Product Code:	First Offer - \$49.00	1200 / hour	\$58,800.00		Y
T2111235B1--01-12	Administrative Assistant	Supplier Product Code:	First Offer - \$25.00	4800 / hour	\$120,000.00		Y
T2111235B1--01-13	Billing/Invoice Analyst	Supplier Product Code:	First Offer - \$52.00	2400 / hour	\$124,800.00		Y
Supplier Total					\$2,498,000.00		

Tetra Tech, Inc

Item: **Project Manager**

Attachments

Tetra Tech_T2111235B1_Disaster Debris Monitoring Services.pdf



Broward County, Florida



Solicitation T2111235B1 Disaster Debris Monitoring Services

Proposal | Original | July 2016

complex world | CLEAR SOLUTIONS™

Table of Contents

TABLE OF CONTENTS

Letter of Transmittal

Experience of the Firm.....Section 1

Capacity & Expertise.....Section 2

FEMA Reimbursement Experience.....Section 3

Experience of the Staff.....Section 4

- Resumes

Resources.....Section 5

Additional Information.....Section 6

- Federal Contracts Provisions and Certification of Restrictions on Lobbying Form
- Living Wage Ordinance Requirements & Affidavit Form
- Tetra Tech Certificate of Good Standing
- Evidence of Insurance

Broward County Board of County Commissioners
Purchasing Division Office
115 S. Andrews Avenue, Room 212
Fort Lauderdale, FL 33301

Subject: Solicitation T2111235B1 – Disaster Debris Monitoring Services

Dear Members of the Evaluation Committee,

Tetra Tech, Inc. (Tetra Tech) is pleased to submit the enclosed proposal to provide disaster management, monitoring, oversight, and recovery services to Broward County. Tetra Tech is a leading provider of consulting, engineering, and technical services worldwide. Our team of disaster recovery experts is a recognized leader in disaster response and recovery and is well suited to assist the County for the following reasons:

- **Knowledge of and Experience with Broward County.** Our team has extensive knowledge of Broward County and its priorities and requirements. Our largest activation in Broward County was in 2005 following Hurricane Wilma, where we monitored the collection and removal of over 4 million cubic yards (CYs) of debris from several of the municipalities within the County. ***Since 2008, our team has held Broward County's contract for disaster debris monitoring and has been involved in every project and task that Tetra Tech has completed for Broward County since the start of this contract.*** Our team has assisted and provided Broward County with the following:
 - ***Yearly Coordination Meetings.*** Tetra Tech conducts yearly meetings with Broward County personnel to prepare for and discuss the upcoming hurricane season. These include meetings with Broward County agencies and the incorporated cities that currently use an inter-local agreement for disposal at County-managed sites.
 - ***Broward County Disposal Site Survey.*** In 2010, our team conducted the Broward County Disposal Site Survey, which involved dividing the County into six regions to determine potential central disposal sites in each region following a tropical weather event. Tetra Tech's team members, including ***Ms. Kerri O'Dell***, and ***Ms. Anne Cabrera***, managed this large, comprehensive debris management site study that included coordination with all 31 municipalities within Broward County and several County agencies.
 - ***Review of Broward County's Debris Management Center Plan.*** Every year, ***Mr. Oliver Yao*** leads Tetra Tech team members in review of Broward County's Debris Management Center Plan, including the standard operating procedures that Tetra Tech worked to develop on the County's behalf. Our team works with Broward County to make sure the plan is up to date and contains all the information necessary for an activation.
 - ***Provide Customized Training Sessions to Other Divisions in Broward County.*** Even though Tetra Tech's current debris monitoring contract is managed through the Solid Waste and Recycling Services Division in Broward County, our team has been proactive regarding working with other County agencies. This work includes writing custom sample work authorizations for several County agencies to utilize in the event of a disaster and providing expertise and training when necessary. In 2011, our team worked to provide the Highway Bridge Maintenance Division with a customized half-day training session. Tetra Tech staff members, including ***Mr. Ralph Natale***, ***Mr. John Buri***, and ***Ms. Anne Cabrera***, hosted the training session and provided the Highway Bridge Maintenance Division with a detailed description of the documentation procedures necessary to track their labor, equipment, and tasks following a disaster to maximize reimbursement.

Tetra Tech, Inc.

450 North Park Road, Suite 502, Hollywood, FL 33021
Tel 321-441-8500 Fax 321-441-8501 tetratech.com

Our firm is proud of our experience and understanding of Broward County and is committed to successfully managing all phases of debris removal monitoring for Broward County following a debris-generating event. ***This in-depth understanding will ensure our team helps the County design the most cost-effective debris operation.***

- ***Nationally Recognized Leader in Disaster Debris Monitoring and Unmatched Florida Disaster Response and Recovery Efforts.*** Since 2004, our team has assisted more local governments with debris monitoring efforts after disasters than any other firm in the nation. Collectively, our team has overseen and managed recovery of ***more than 69 million CYs of debris*** on behalf of at least 300 public-sector clients, resulting in excess of ***\$3.5 billion in reimbursable costs*** to our clients from the Federal Emergency Management Agency (FEMA), the Federal Highway Administration, the Natural Resources Conservation Service, and state regulatory agencies. Our team has assisted numerous communities in Florida with response and recovery efforts after Hurricanes Charley, Frances, Jeanne, Ivan, Dennis, Katrina, and Wilma and Tropical Storms Fay and Debbie. Counties including Broward, Clay, Collier, Escambia, Lake, Miami-Dade, Monroe, Pasco, Polk, Santa Rosa, and Sarasota as well as the Cities of Boca Raton, Fort Lauderdale, Marathon, Naples, Orlando, and Pensacola have called on our team to provide debris monitoring services and grant application, administration, and management. ***Since 2004, our team has monitored collection and removal of almost 30 million CYs of debris in Florida.*** Additionally, we maintain 27 offices throughout the State of Florida, including seven offices in the South Florida region and approximately 500 staff across the state.
- ***Local Team with Immediate Response Capability.*** Given our major presence in Florida, we can quickly provide virtually any type of disaster-related resource the County may need. With our disaster recovery team based in Maitland, Florida, and recovery experts located throughout Florida, Tetra Tech can stage a full-scale mobilization in the County within hours of a disaster. Tetra Tech's established working relationship allows our team to understand and anticipate the County's post-disaster recovery concerns quickly and efficiently. We maintain an inventory of the equipment and resources required to support timely mobilization. Tetra Tech also maintains a warehouse in Orlando with more than 120 fully stocked bays of debris monitoring supplies capable of supporting 50 simultaneous recovery operations for at least 90 days. Our team has deployed large-scale mobilizations of hundreds of staff and thousands of dollars' worth of equipment to multiple clients in a matter of days and on short notice.
- ***History of Supporting Clients through All Phases of the Disaster Recovery Life Cycle.*** Tetra Tech is a leading disaster preparedness and grant consulting provider to local and state governments. Our team has successfully assisted 300 local and state government clients across the nation with planning for and recovering from natural and human-caused disasters and has extensive experience successfully managing multiple disaster response and recovery operations across the United States simultaneously. Our staff of industry experts will apply the necessary project controls to efficiently document and complete fieldwork and provide follow-up support, including appeal development and closeout audit support, months or even years after fieldwork is complete.
- ***RecoveryTrac™ Automated Debris Management System (ADMS) Technology.*** RecoveryTrac™ allows our staff to monitor and manage a recovery effort electronically, increasing productivity while decreasing fraud, human error, and cost to the County. RecoveryTrac™ will give the County real-time debris collection tracking that provides accurate and timely reporting to County stakeholders. ***RecoveryTrac™ was designed to provide real-time data on missed pickups, damage caused by debris haulers, waypoints for each pile of debris picked up, and street-level pass maps, which will meet the unique data needs of the County.*** Within the past three years, our team has successfully implemented RecoveryTrac™ on all 19 projects we completed in this time frame.
- ***FEMA Reimbursement Experts.*** Tetra Tech maintains a staff of reimbursement experts who have recovered millions of dollars of eligible FEMA Public Assistance reimbursement costs incurred by our clients. A key member of our team is **Mr. Dick Hainje**, former regional administrator of FEMA Region VII. As regional administrator of Region VII, Mr. Hainje led Region VII through 60 presidentially declared disasters in Kansas, Iowa, Nebraska, and Missouri and assisted Region IV with the 2004 Florida hurricane FEMA response.

Mr. Hainje frequently meets with local government officials and FEMA Region IV on matters related to reimbursement policies. Another vital member of the Tetra Tech team is **Mr. Donald Kunish**, a Certified Emergency Manager with 16 years of experience. Mr. Kunish is a Florida local who formerly served as the Deputy Bureau Chief for the Florida Division of Emergency Management, where he was responsible for managing Florida's hazard mitigation planning and grant programs, statewide emergency management all-hazards planning, and training and exercise programs.

Tetra Tech would be honored to continue to serve as the County's primary debris monitoring services provider. We are fully prepared to provide the high quality service the County expects. For questions regarding this response, please contact the representatives listed below.

Technical Representative:

Ms. Anne Cabrera

2301 Lucien Way, Suite 120

Maitland, FL 32751

(954) 559-4951 | anne.cabrera@tetratech.com

Contractual Representative:

Ms. Betty Kamara

2301 Lucien Way, Suite 120

Maitland, FL 32751

(407) 803-2551 | betty.kamara@tetratech.com

Sincerely,

Tetra Tech, Inc.



Jonathan Burgiel

Vice President/Operations Manager

Section 1: Experience of the Firm

QUALIFICATIONS OF THE FIRM

TETRA TECH – DESCRIPTION AND HISTORY OF THE FIRM

Tetra Tech, Inc., (Tetra Tech) is a leading provider of consulting, engineering, and technical services worldwide. Founded in 1966, Tetra Tech is one of the leading firms in the nation in the field of disaster management and homeland security, with millions of dollars in revenue coming from contracts in such diverse areas as infrastructure hardening and protection; disaster recovery; emergency management, planning, and preparedness; community resilience; disaster recovery, and grant management. Tetra Tech supports government and commercial clients by providing innovative solutions to complex problems focused on water, environment, energy, infrastructure, and natural resources. With 14,000 employees worldwide, Tetra Tech's capabilities span the entire project life cycle.



Dedicated to helping state and local governments plan for and recover from natural and human-caused disasters, our staff members offer a field-tested and proven methodology for emergency readiness, continuity planning, and disaster recovery. ***Our team is recognized for its ability to quickly respond to a broad range of emergencies, allowing our clients to return to the business of running their day-to-day operations.***

Likewise, our team's understanding of the Federal Emergency Management Agency (FEMA), the Federal Highway Administration (FHWA) (including recent changes), and other reimbursement agencies' requirements for eligibility, documentation, and reimbursement helps clients receive the maximum reimbursement allowed. ***Our team has obtained over \$3.5 billion in reimbursement funds for our clients*** from federal agencies such as FEMA, FHWA, and the Natural Resources Conservation Service (NRCS). In total, our team has successfully managed the removal of and reimbursement for over ***69 million cubic yards (CYs) of debris*** as well as the ***demolition of over 5,000 uninhabitable residential and commercial structures.***



Within our proposal, we demonstrate that:

- We are duly qualified to perform the scope of work outlined in Broward County's request for proposal, as evidenced by our staff's extensive qualifications for many of the nation's most catastrophic disasters and our team's previous experience with disaster recovery in Florida over the past 15 years.
- We are committed to providing the County with skilled resources within the time frames specified by the County, as evidenced by the depth of experience of our senior management team and project management team, their historical performance across Florida and within Broward County.
- We offer a proven and successful technical and management approach that has been refined in disaster activations across the United States, including 13 projects with over 1 million CYs of debris, as evidenced by our team's detailed scope of work and significant work history in the disaster response marketplace and within the State of Florida.
- We offer detailed reporting, real-time debris collection tracking, and mapping capabilities that are driven by our RecoveryTrac™ automated debris management system (ADMS) technology, which allows our staff to monitor and manage a recovery effort electronically in addition to increasing productivity while decreasing fraud, human error, and cost to the County.
- We have the financial resources and cash flow for a large and long-term recovery effort.

Section 1: Experience of the Firm

FIRM OFFICERS

A list of names of all corporate officers is listed below.

Exhibit 1-1: Tetra Tech's Corporate Officers

Title	Name	
Chairman, Chief Executive Officer, and President	Dan L. Batrack	
Executive Vice President, Chief Financial Officer and Treasurer	Steven M. Burdick	
Executive Vice President, Technical Support Services	Ronald J. Chu	
Executive Vice President, Remediation and Construction Management	Frank C. Gross	
Executive Vice President, Engineering and Consulting Services	James R. Pagenkopf	
Senior Vice President, Corporate Development	Michael A. Bieber	
Senior Vice President, Chief Engineer and Corporate Risk Management Officer	William R. Brownlie	
Senior Vice President, Corporate Controller and Chief Accounting Officer	Brian N. Carter	
Senior Vice President, Chief Information Officer	Craig L. Christensen	
Senior Vice President, Corporate Administration	Richard A. Lemmon	
Senior Vice President, Corporate Human Resources	Kevin P. McDonald	
Senior Vice President, General Counsel and Secretary	Janis B. Salin	
Senior Vice President, Corporate Strategy	Leslie L. Shoemaker	
Directors	Dan L. Batrack Hugh M. Grant Patrick C. Haden J. Christopher Lewis Kimberly E. Ritrievi	Albert E. Smith J. Kenneth Thompson Richard H. Truly Kristen M. Volpi Li-San Hwang

HDR – SUBCONTRACTOR



Joining our team is HDR, an architecture, engineering, and consulting firm with more than 8,600 professionals in 200 locations worldwide. This partnership brings complementary skills and expertise, along with a successful history of providing emergency management and response services. HDR is consistently ranked among the top architecture and engineering firms by leading industry publications, including *Engineering News-Record*, which has ranked HDR among the top 50 design firms since 1967.

For more than 20 years, HDR has worked extensively in Southeast Florida. Specific accomplishments associated with our South Florida presence include:

- Assisting numerous clients with solid waste collection procurements and solid waste facility design and permitting
- Executing more than 75 planning, design and construction support assignments with the South Florida Water Management District (SFWMD) under a GEC contract
- Executing dozens of design and plans review assignments with the Florida Department of Transportation (FDOT) District 4 under multiple miscellaneous services contracts
- Executing 25 assignments for the South Florida Regional Transportation Authority under GEC contracts for Engineering and Planning

Section 1: Experience of the Firm

- Executed nearly 40 assignments under GEC contract for the Broward County Aviation Department
- Executed more than a dozen work orders for Miami-Dade Water and Sewer Department for design and planning services for treatment plant, pump station, and pipelines
- Currently serving as Corridor Design Consultant for FDOT for Interstate I-95 through Broward, Palm Beach, and Martin Counties
- Currently performing design for reconstruction of Tamiami Trail under Miscellaneous Services contract for National Park Service

As a result of this work, we have developed strong working relationships with various regulatory agencies, including SFWMD, the Florida Department of Environmental Protection, the U.S. Fish and Wildlife Service, and the U.S. Army Corps of Engineers. We have also developed relationships with regional stakeholders such as FDOT District 4, the South Florida Regional Transportation Authority, as well as various utility owners, and municipalities. HDR provides emergency management and response services, including pre-disaster planning, emergency action plans, active flood fighting, infrastructure and damage assessments, and funding support. HDR also offers up-front services such as feasibility studies, siting, permitting, public involvement, and economics. HDR specializes in managing multi-phased, multi-year contracts, and has provided program management, cost estimating, and scheduling capabilities to projects such as the recovery and reconstruction of the New Orleans Hurricane Protection System damaged during Hurricanes Katrina and Rita.

HDR's emergency management professionals specialize in projects with many infrastructure components, including water/wastewater, energy and fuels, transportation, and physical infrastructure function and processes. HDR's professionals have contributed to the success of many planning, response, recovery, and mitigation efforts, including the following:

- Hurricanes Sandy, Katrina, Irene, Ike, and Rita (New York/New Jersey, Louisiana, Texas)
- BP Oil Spill (Louisiana, Mississippi, Alabama, Florida)
- River Flooding (Missouri, South Dakota, Nebraska, Iowa, Kansas, Arkansas, Colorado)
- Alabama Tornadoes
- Colorado Winter Storms
- California Wildfires
- Escambia County, Florida Flooding Event
- South Carolina Floods

KNOWLEDGE AND EXPERTISE IN DEBRIS MANAGEMENT

Recent Debris Monitoring Experience

Our team has vast experience providing disaster management, recovery, and consulting services to state and local government agencies. Our approach includes partnering with our clients to establish and test the necessary plans and procedures before a disaster strikes and assisting with disaster response and recovery operations as well as post-disaster grant management. One of the keys to maintaining readiness in the field of disaster response and recovery is remaining active year-round. **Our team has responded to 16 major disaster declarations since 2011, totaling over 85 clients throughout the country.** Exhibit 1-1 provides an abbreviated experience matrix for projects conducted since 2011. *Tetra Tech can provide additional information upon request. Profiles and references from specific projects are featured later in this section. Tetra Tech can provide additional projects and information upon request.*

Section 1: Experience of the Firm

Exhibit 1-2: Experience Matrix (2011–2016)

Event/Client	Year	Cubic Yardage	Comprehensive Contract Management	Collection Monitoring	Disposal Monitoring	Hazardous Waste Collection Monitoring	Leaner/Hanger/Stump Removal	DMS Environmental Support	Beach Remediation/Restoration	Right-of-Entry Administration	Marine/Waterway Debris Removal I	Data Collection/ Management/ Billing/ Invoicing	FEMA Compliance Monitoring & Audit Oversight	FEMA Reimbursement	Automated Debris Management System
FLOODING – 2016¹															
Total Cubic Yards of Debris – 289,000 Total Clients – 6															
City of Houston, TX	2016	187,000	■	■	■							■	■	■	■
Fort Bend County, TX	2016	42,000	■	■	■	■		■				■	■	■	■
Montgomery County, TX	2016	44,640	■	■	■							■	■	■	■
Waller County, TX	2016	2,021	■	■	■							■	■	■	■
Brazoria County, TX	2016	7,250	■	■	■							■	■	■	■
General Land Office, TX	2016	5,500	■	■	■				■			■	■	■	■
WILDFIRES – 2015¹															
Total Cubic Yards of Debris – 161,000 Total Clients – 5															
Lake County, CA	2015	161,000	■	■	■		■	■		■		■	■	■	■
Calaveras County, CA	2016	N/A	■				■			■		■	■	■	■
Pacific Gas & Electric	2015	N/A	■		■		■					■			■
CalRecycle (Valley Fire)	2015	N/A													■
CalRecycle (Butte Fire)	2015	N/A										■	■	■	
TORNADO & SEVERE WEATHER – 2015¹															
Total Cubic Yards of Debris – 8,800 Total Clients – 3															
Friendswood, TX	2015	8,800	■	■	■							■	■	■	■
Hays County, Texas	2015	2,000	■	■	■		■	■				■	■	■	■
Caldwell County, Texas	2015	1,300	■	■	■		■	■				■	■	■	■
FLOODING – 2015															
Total Cubic Yards of Debris – 293,750 Total Clients – 10 Representative Projects:															
City of Houston, TX	2015	240,725	■	■	■							■	■	■	■
Hays County, TX	2015	10,900	■	■	■		■	■				■	■	■	■
Town of Wimberley, TX	2015	18,922	■	■	■		■	■				■	■	■	■
Caldwell County, TX	2015	1,320	■	■	■		■	■				■	■	■	■
FLOODING – 2014															
Total Cubic Yards of Debris – 10,000 Total Clients – 1															

¹ On-going debris collection operations

Section 1: Experience of the Firm

Event/Client	Year	Cubic Yardage	Comprehensive Contract Management	Collection Monitoring	Disposal Monitoring	Hazardous Waste Collection Monitoring	Leaner/Hanger/Stump Removal	DMS Environmental Support	Beach Remediation/Restoration	Right-of-Entry Administration	Marine/Waterway Debris Removal I	Data Collection/ Management/ Billing/ Invoicing	FEMA Compliance Monitoring & Audit Oversight	FEMA Reimbursement	Automated Debris Management System
Escambia County, FL	2014	10,000	■	■	■							■	■	■	■
TORNADO – 2014															
Total Cubic Yards of Debris – 179,851 Total Clients – 2															
Limestone County, AL	2014	104,256	■	■	■		■	■				■	■	■	■
Blount County, AL	2014	75,595	■	■	■		■	■				■	■	■	■
ICE STORM – 2014															
Total Cubic Yards of Debris – 1,041,047 Total Clients – 7															
Augusta-Richmond County, GA	2014	961,570	■	■	■		■	■				■	■	■	■
Sumter County, SC	2014	104,722	■	■	■		■	■				■	■	■	■
Dorchester County, SC	2014	91,850	■	■	■		■	■				■	■	■	■
Barnwell County, SC	2014	85,703	■	■	■		■	■				■	■	■	■
Colleton County, SC	2014	61,883	■	■	■		■	■				■	■	■	■
City of Sumter, SC	2014	35,424	■	■	■		■	■				■	■	■	■
Hampton County, SC	2014	15,495	■	■	■		■	■				■	■	■	■
FLOODING – 2013															
Total Cubic Yards of Debris – 140,000* Total Clients – 1															
Boulder County, CO	2013	140,000*	■	■	■		■	■		■		■	■	■	■
ICE STORM – 2013															
Total Cubic Yards of Debris – 100,664 Total Clients - 1															
City of Rapid City, SD	2013	100,664	■	■	■		■	■				■	■	■	■
ICE STORM – 2013															
Total Tons of Debris – 79,925 Total Clients – 1															
City of Sioux Falls, SD	2013	79,925*	■	■	■		■	■				■	■	■	■
HURRICANE SANDY – 2012															
Total Cubic Yards of Debris – 272,931 Total Clients – 13 Representative Projects:															
New Jersey Department of Environmental Protection	2012	193,706	■	■	■	■			■		■	■	■	■	■
Borough of Sayreville, NJ	2012	27,800	■	■	■	■		■				■	■	■	■
Town of Fairfield, CT	2012	13,300	■	■	■	■	■					■	■	■	■
HURRICANE ISAAC – 2012															
Total Cubic Yards of Debris – 721,672 Total Clients – 5 Representative Projects:															

Section 1: Experience of the Firm

Event/Client	Year	Cubic Yardage	Comprehensive Contract Management	Collection Monitoring	Disposal Monitoring	Hazardous Waste Collection Monitoring	Leaner/Hanger/Stump Removal	DMS Environmental Support	Beach Remediation/Restoration	Right-of-Entry Administration	Marine/Waterway Debris Removal I	Data Collection/ Management/ Billing/ Invoicing	FEMA Compliance Monitoring & Audit Oversight	FEMA Reimbursement	Automated Debris Management System
Jefferson Parish, LA	2012	270,136	■	■	■		■	■				■	■	■	
St. John the Baptist Parish, LA	2012	225,000	■	■	■	■	■	■				■	■	■	■
City of New Orleans, LA	2012	177,443	■	■	■		■	■				■	■	■	
TROPICAL STORM DEBBY – 2012															
Total Cubic Yards of Debris – 7,253 Total Clients – 3 Representative Projects:															
Clay County, FL	2012	3,777		■	■							■	■		
Pasco County, FL	2012	2,583		■	■							■	■		
HURRICANE IRENE – 2011															
Total Cubic Yards of Debris – 573,200 Total Clients – 22 Representative Projects:															
VA Dept. of Transportation	2011	132,600		■	■		■					■	■	■	
Lenoir County, NC	2011	127,000		■	■							■	■	■	
City of Virginia Beach, VA	2011	55,600		■	■		■					■	■	■	
Henrico County, VA	2011	26,950		■	■		■					■	■	■	
TEXAS DROUGHT & WILDFIRES – 2011															
Total Cubic Yards of Debris – 990,868 Total Clients – 2															
Bastrop County, TX	2011	773,068		■	■		■			■		■	■	■	
City of Houston, TX	2011	271,800		■	■		■					■	■	■	■
NOR'EASTER (WINTER STORMS) – 2011															
Total Cubic Yards of Debris – 1,787,201 Total Clients – 19 Representative Projects:															
CT Dept. of Transportation	2011	436,410		■	■		■					■	■	■	
Town of West Hartford, CT	2011	321,682		■	■		■					■	■	■	
Town of South Windsor, CT	2011	234,764		■	■		■					■	■	■	
Town of Enfield, CT	2011	189,090		■	■							■	■	■	
Town of Manchester, CT	2011	153,575		■	■		■					■	■	■	
TORNADOES – 2011															
Total Cubic Yards of Debris – 61,458 Total Clients – 4 Representative Projects:															
USACE/Elmore County, AL	2011	33,220		■	■		■								
USACE/Tuscaloosa County, A	2011	18,878		■	■		■								

* Cubic yardage volume converted from tons using FEMA conversion ratio

Section 1: Experience of the Firm

Florida Debris Monitoring Experience

In addition to the projects listed above, our team has assisted numerous communities in Florida with response and recovery efforts following Hurricanes Charley, Frances, Jeanne, Ivan, Dennis, Katrina, and Wilma. Our team has been called upon by Collier, Lake, Miami-Dade, Monroe, Pasco, Polk, Santa Rosa, Sarasota, and Volusia Counties as well as the Cities of Boca Raton, Daytona Beach, Fort Lauderdale, Marathon, Naples, Pembroke Pines, Pensacola, Plantation, and Sarasota to provide debris monitoring services and grant application, administration, and management. *Since 2004, our team has monitored the collection and removal of almost 30 million CYs of debris in Florida.* Tetra Tech is proud of our experience in Florida and is committed to successfully managing all phases of debris monitoring for our clients following a debris-generating event.

Exhibit 1-2 provides an abbreviated list of projects completed in Florida that are similar in scope and complexity to the service required by the County, including volume of debris collected and the monitoring services rendered.

Tetra Tech can provide additional information upon request.

Exhibit 1-3: Previous Experience in Florida

Event/Client	Year	Cubic Yardage	Comprehensive Contract Management	Collection Monitoring	Disposal Monitoring	Hazardous Waste Collection Monitoring	Leaner/Hanger/Stump Removal	DMS Environmental Support	Beach Remediation/Restoration	ROE Administration	Marine/Waterway Debris Removal I	Data Collection/ Management/ Billing/ Invoicing	FEMA Compliance Monitoring & Audit Oversight	FEMA Reimbursement
FLOODING – 2014														
Total Cubic Yards of Debris – 10,000 Total Clients – 1														
Escambia County, FL	2014	10,000	■	■	■			■				■	■	■
TROPICAL STORM DEBBY – 2012														
Total Cubic Yards of Debris – 7,253 Total Clients – 3														
Clay County, FL	2012	3,777		■	■							■	■	
Pasco County, FL	2012	2,583		■	■							■	■	
New Port Richey, City of, FL	2012	893		■	■							■	■	
TROPICAL STORM FAY – 2008														
Total Cubic Yards of Debris – 50,000 Total Clients – 3 Representative Florida Projects:														
St. Johns County, FL	2008	30,000		■	■							■		
Leon County, FL	2008	20,000		■	■							■		
GROUNDHOG DAY TORNADOES – 2007														
Total Cubic Yards of Debris – 281,000 Total Clients – 2														
Lake County, FL	2007	144,000	■	■	■	■	■	■			■	■	■	■
Volusia County, FL	2007	137,000	■	■	■		■	■				■	■	■
HURRICANE WILMA – 2005														
Total Cubic Yards of Debris – 8,914,000 Total Clients – 17 Representative Florida Projects:														

Section 1: Experience of the Firm

Event/Client	Year	Cubic Yardage	Comprehensive Contract Management	Collection Monitoring	Disposal Monitoring	Hazardous Waste Collection Monitoring	Leaner/Hanger/Stump Removal	DMS Environmental Support	Beach Remediation/Restoration	ROE Administration	Marine/Waterway Debris Removal I	Data Collection/ Management/ Billing/ Invoicing	FEMA Compliance Monitoring & Audit Oversight	FEMA Reimbursement
Miami-Dade County, FL	2005	3,000,000	■	■	■	■	■					■	■	■
Pembroke Pines, City of, FL	2005	930,000		■	■	■	■						■	■
Fort Lauderdale, City of, FL	2005	901,000	■	■	■	■	■		■		■	■	■	■
Plantation, City of, FL	2005	811,000		■	■		■	■				■	■	■
Boca Raton, City of, FL	2005	646,000	■	■	■							■	■	■
Hollywood, City of, FL	2005	600,000		■	■		■					■	■	■
Naples, City of, FL	2005	400,000		■	■	■	■	■		■	■	■	■	■
HURRICANE RITA – 2005														
Total Cubic Yards of Debris – 4,810,000 Total Clients – 3 Representative Florida Projects:														
Monroe County, FL	2005	200,000	■	■	■	■			■		■	■	■	■
HURRICANE KATRINA – 2005														
Total Cubic Yards of Debris – 9,942,000 Total Clients – 11 Representative Florida Projects:														
Miami-Dade County, FL	2005	2,500,000	■	■	■			■						
Plantation, City of, FL	2005	450,000		■	■		■	■				■	■	■
Fort Lauderdale, City of, FL	2005	400,000	■	■	■	■	■				■	■	■	■
Hollywood, City of, FL	2005	360,000		■	■		■					■	■	■
Monroe County, FL	2005	200,000	■	■	■	■			■		■	■	■	■
HURRICANE DENNIS – 2005														
Total Cubic Yards of Debris – 3,917,267 Total Clients – 5 Representative Florida Projects:														
Santa Rosa County, FL	2005	1,708,085	■	■	■							■	■	■
Escambia County, FL	2005	1,589,182	■	■	■		■	■	■	■	■	■	■	■
Pensacola, City of, FL	2005	400,000	■	■	■		■	■	■		■	■	■	■
Monroe County, FL	2005	200,000	■	■	■	■					■	■	■	■
HURRICANE JEANNE – 2004														
Total Cubic Yards of Debris – 350,000 Total Clients – 2														
Orlando, City of, FL	2004	250,000	■	■	■		■	■				■	■	■
Lake County, FL	2004	100,000	■	■	■		■					■	■	■
HURRICANE IVAN– 2004														
Total Cubic Yards of Debris – 7,475,554 Total Clients – 3														
Escambia County, FL	2004	5,385,084	■	■	■		■		■	■	■	■	■	■

Section 1: Experience of the Firm

Event/Client	Year	Cubic Yardage	Comprehensive Contract Management	Collection Monitoring	Disposal Monitoring	Hazardous Waste Collection Monitoring	Leaner/Hanger/Stump Removal	DMS Environmental Support	Beach Remediation/Restoration	ROE Administration	Marine/Waterway Debris Removal I	Data Collection/ Management/ Billing/ Invoicing	FEMA Compliance Monitoring & Audit Oversight	FEMA Reimbursement
Pensacola, City of, FL	2004	1,381,670	■	■	■		■			■	■	■	■	■
FL Dept. of Transportation	2004	708,800	■	■	■							■	■	■
HURRICANE FRANCES – 2004														
Total Cubic Yards of Debris – 500,000 Total Clients – 2														
Orlando, City of, FL	2004	300,000	■	■	■		■	■				■	■	■
Boca Raton, City of, FL	2004	200,000	■	■	■							■	■	■
HURRICANE CHARLEY – 2004														
Total Cubic Yards of Debris – 1,652,200 Total Clients – 2														
Orlando, City of, FL	2004	1,035,500	■	■	■		■	■				■	■	■
Lake County, FL	2004	616,700	■	■	■		■					■	■	■
TROPICAL STORM GABRIELLE – 2001														
Total Cubic Yards of Debris – 150,000 Total Clients – 1														
Sarasota County, FL	2001	150,000	■	■	■							■	■	■

Large-Scale Debris Monitoring Experience

Our team understands the significant resource commitment and effort that is necessary to manage and monitor large-scale debris removal operations for local governments. We have monitored and obtained FEMA, FHWA, and NRCS reimbursement on **13 debris removal projects in excess of 1 million CYs of debris.**

Tetra Tech takes great pride in the reliability of our service. Clients count on us to respond in their time of need, and we deliver. Our team has never failed to respond to our clients’ deployment and mobilization needs, regardless of location or type of disaster. *Exhibit 1-3 summarizes our team’s experience serving as the prime contractor on large-scale debris monitoring projects for over 500,000 CYs of debris in the past 10 years.* Our services under these engagements included environmental permitting, DMS monitoring, contractor invoice reconciliation, and federal grant reimbursement support.

Exhibit 1-4: Summary of Our Large-Scale Debris Monitoring Activations

Client	Disaster	Year	Cubic Yards Monitored
Escambia County, Florida	Hurricane Ivan	2004	5,385,084
City of Pensacola, Florida	Hurricane Ivan	2005	1,381,670
Santa Rosa County, Florida	Hurricane Dennis	2005	1,708,085
Escambia County, Florida	Hurricane Dennis	2005	1,589,182
Jefferson County, Texas	Hurricane Rita	2005	1,448,027

Section 1: Experience of the Firm

Client	Disaster	Year	Cubic Yards Monitored
City of Gulfport, Mississippi	Hurricane Katrina	2005	2,891,220
Harrison County, Mississippi	Hurricane Katrina	2005	2,494,971
City of Waveland, Mississippi	Hurricane Katrina	2005	512,820
Miami-Dade County, Florida	Hurricane Wilma	2005	2,571,871
City of Pembroke Pines, Florida	Hurricane Wilma	2005	919,200
City of Plantation, Florida	Hurricane Wilma	2005	796,369
City of Fort Lauderdale, Florida	Hurricane Wilma	2005	614,711
City of Boca Raton, Florida	Hurricane Wilma	2005	585,351
City of Hollywood, Florida	Hurricane Wilma	2005	585,331
City of Miramar, Florida	Hurricane Wilma	2005	513,127
Town of Amherst, New York	Buffalo Snow Storm	2006	778,421
City of Springfield, Missouri	Midwest Snowstorms	2007	1,442,727
Greene County, Missouri	Midwest Snowstorms	2007	572,319
City of Norman, Oklahoma	Midwest Ice Storm	2007	536,581
Hidalgo County, Texas	Hurricane Dolly	2008	628,307
City of Houston, Texas	Hurricane Ike	2008	5,469,167
Harris County, Texas	Hurricane Ike	2008	2,395,475
City of Bolivar, Texas	Hurricane Ike	2008	2,699,683
City of Galveston, Texas	Hurricane Ike	2008	1,810,857
Galveston County, Texas	Hurricane Ike	2008	859,496
City of Baytown, Texas	Hurricane Ike	2008	817,603
City of Beaumont, Texas	Hurricane Ike	2008	747,901
Montgomery County, Texas	Hurricane Ike	2008	697,441
Chambers County, Texas	Hurricane Ike	2008	630,234
Orange County, Texas	Hurricane Ike	2008	616,527
Bastrop County, Texas	Texas Drought and Wildfires	2011	773,068
Augusta-Richmond County, Georgia	Winter Storm Pax	2014	645,970

Section 1: Experience of the Firm

Experience Coordinating with Federal, State, and Local Funding Sources and Reimbursement Processes

Throughout the course of the hundreds of debris management and grant management projects that our staff has administered for state and local governments across the United States, our team has developed a unique understanding of the FEMA organization and other regulatory agencies' policies and procedures. Our team maintains strong relationships with many of the lead federal coordinating officers, debris specialists, Public Assistance (PA) coordinators and officers, and other staff. Our team also understands the duties and responsibilities of emergency management personnel at the state and local level, which helps us build strong relationships. Our team has worked with hundreds of local government emergency management agencies and dozens of state emergency management organizations following disaster debris-generating events.

WHAT DO OUR CLIENTS SAY?

“Your team assisted us with FEMA PA Grant Program application and administration, FHWA ER technical assistance, FEMA HMGP grant application, and HUD CDBG-DR project identification, technical assistance, and application development representing a combined estimated \$280 million in federal grants—the largest grant application in Boulder County’s history. Boulder County has been very pleased by the work of your team and would absolutely recommend them to any other state or local government agency in the aftermath of a disaster.”

**Michelle Krezek, Commissioners’ Deputy
Boulder County, Colorado**

Our team has worked closely with FEMA and FHWA staff in the determination of debris eligibility, data requirements, project worksheet/detailed damage inspection report development, auditing of documentation, and reimbursement requirements. This includes providing step-by-step assistance to clients throughout the FEMA reimbursement process.

To maximize PA funding for our clients, our staff members maintain a working relationship with FEMA at the headquarters, regional, and local levels. Constant communication and regular interface with FEMA allows our team to obtain quick responses on disaster-specific guidance and issues.

Moreover, Tetra Tech maintains a full-time staff to assist our clients in obtaining reimbursement. **Mr. Dick Hainje**, former regional administrator of FEMA Region VII, has been responsible for deploying and managing over 2,000 emergency management employees following disasters and created a long-term community recovery process for FEMA Region VII. Mr. Hainje has assisted our clients with navigating the reimbursement process and obtaining clarification on FEMA policies. Mr. Hainje also led the response, recovery, and mitigation for the historic 2008 Midwest flooding event, where he was the regional administrator in charge of over 1,000 FEMA employees deployed to this event.

Additionally, our data management and document storage procedures are tailored to facilitate FEMA review of the generation of project worksheet versions throughout the project. ***Our FEMA appeals and funding specialists have worked with FEMA closeout officers to obtain millions of previously deobligated dollars for communities.***

In the field, our operations managers and field supervisors fully understand FEMA rules and regulations for hand-loaded vehicles; stump, limb, and tree removal at unit rates; volumetric load calls at temporary disposal site locations; and right-of-way (ROW) debris removal eligibility. This allows us to monitor contracts to the smallest detail while concurrently managing and documenting the operation using proven methodologies that maximize FEMA reimbursement. ***Our understanding of reimbursement agencies’ requirements for eligibility, documentation, and reimbursement has helped our clients obtain over \$3.5 billion in reimbursement funds from federal agencies such as FEMA, FHWA, and the NRCS.***

Disaster Recovery Program Management Services

As a result of our successful performance on past projects, our team has become a national leader in providing management and support documentation for the following:

Section 1: Experience of the Firm

- Emergency road clearance
- Curbside debris collection
- Operation of citizen drop-off sites
- Demolition of uninhabitable structures
- Data management and invoice reconciliation
- Execution of private property debris removal (PPDR) programs
- Oversight of debris management sites (TDMS)
- Final debris disposal at a landfill or other end use
- Conflict and damage resolution
- Truck certification
- Right-of-entry (ROE) administration

Special Programs Management

Our team is experienced with all facets of the debris removal monitoring industry, including special disaster recovery program management services. Some examples of special programs our team has managed and administered include the following:

- Animal carcass removal and disposal
- Asbestos abatement
- Beach remediation/restoration
- Construction and demolition debris
- Creosote piling
- Disposal site management
- Drainage and canal debris removal
- E-wastes
- Food waste removal
- Hazardous waste debris removal
- Leaner, hanger, and stump removal
- Marine/waterway debris removal
- Private property demolition/debris removal
- Nuisance abatement ordinance administration
- Saltwater killed tree removal
- Subsurface storm drain debris removal
- Vessel and vehicle recovery
- Wetland and parkland debris
- White goods debris removal
- Woodchips/ashes

Private Property/Right-of-Way Debris Removal

Our team has administered many of the largest PPDR programs in U.S. history, including projects for New Orleans, Louisiana; Gulfport, Mississippi; Bastrop, Texas; and Escambia County, Florida. Tetra Tech assists communities with ensuring they have the legal authority via local and state ordinances to enter onto private property. Our team also assists with preparing submittal packages for FEMA to approve the program, promoting the ROE program with residents, and ensuring the program is properly documented. Exhibit 1-4 is a representative list of our experience in assisting clients with PPDR activities and demolition program management.

Exhibit 1-5: PPDR and Demolition Program Management

Client	Disaster/Year	Public Advertisement	Application Administration	Historical/Environmental Review	Property Survey	Scheduling	Individual Property Debris Tracking	Demolition Program Management	Debris Removal Monitoring	Reduction/Disposal Monitoring	Property Close Out	Data Management
Lake County, CA	Wildfires (2015)	■	■	■	■	■			■	■	■	■
Hays County, TX	Flooding (2014)	■	■	■	■	■			■	■	■	■

Section 1: Experience of the Firm

Client	Disaster/Year	Public Advertisement	Application Administration	Historical/Environmental Review	Property Survey	Scheduling	Individual Property Debris Tracking	Demolition Program Management	Debris Removal Monitoring	Reduction/Disposal Monitoring	Property Close Out	Data Management
Boulder County, CO	Flooding (2013)	■	■	■	■	■		■	■	■	■	■
Middletown, Township of, NJ	Hurricane Sandy (2012)					■	■	■	■	■		■
St. John the Baptist Parish, LA	Hurricane Isaac (2012)	■			■	■			■	■		■
Bastrop County, TX	Wildfires (2011)	■	■	■	■	■			■	■	■	■
Comanche Nation, OK	Ice Storm (2009)					■	■		■	■		■
Cedar Rapids, City of, IA	Flooding (2008)			■		■		■	■	■	■	■
University of Iowa	Flooding (2008)			■		■		■	■	■	■	■
Galveston, City of, TX	Hurricane Ike (2008)	■	■	■	■	■	■		■	■	■	■
Terrebonne Parish, LA	Hurricanes Ike (2008)	■	■	■	■	■	■	■	■	■	■	■
Iberville Parish, LA	Hurricane Gustav (2008)	■	■		■	■			■	■	■	■
New Orleans, City of, LA	Hurricane Katrina (2005)	■	■	■	■	■	■	■	■	■	■	■
Waveland, City of, MS	Hurricane Katrina (2005)	■	■		■	■	■	■	■	■	■	■
Naples, City of, FL	Hurricane Wilma (2005)					■			■	■	■	■

Waterways Debris Removal

Our team has worked extensively with local, state, and federal agencies (including the United States Army Corps of Engineers (USACE) and the National Oceanic and Atmospheric Administration) to determine legal responsibility and to evaluate and implement marine debris removal programs. Our team has performed multiple projects for Monroe County, Florida (the Florida Keys), to remove derelict vessels and traps from waterways following Hurricanes Katrina, Gustav, Ike, and Wilma. Following Hurricane Ike, our team assisted Galveston City Municipal Utility District #12, Jefferson County Drainage District #7, the Trinity Bay Conservation District, and the Harris County Flood Control District with inland waterway debris removal assignments. We will help the County legal staff rapidly determine legal responsibility for waterway debris removal, verify scope eligibility, and document the work in a fashion deemed appropriate by reimbursement agencies. ***Most recently, our team members monitored marine and vessel debris removal efforts following Hurricane Sandy on behalf of the New Jersey Department of Environmental Protection (NJDEP).***

Leaning Trees, Hanging Limbs, and Stump Removal

Leaning trees, hanging limbs, and stumps pose significant threats to public health and safety. Guidance on reimbursement for the removal of these vegetative threats is disaster-specific. Tetra Tech has the experience and expertise to help communities avoid the de-obligation of funds or non-reimbursement for these activities due to ineligible work. Our team has assisted numerous clients in surveying, documenting, and monitoring the removal of leaning trees, hanging limbs, and stumps. ***Our team members monitored the removal and disposal of 26,800***

Section 1: Experience of the Firm

hazardous trees and hangers for the City of Augusta following 2014 Winter Storm Pax. Exhibit 1-5 provides featured clients for whom our team has monitored the collection and removal of leaning trees, hanging limbs, and stumps following a disaster debris-generating event.

Exhibit 1-6: Previous Leaner/Hanger/Stump Removal Programs

Client	Event	Total Leaners/Hangers/ Stumps Removed
City of Augusta, Georgia	2014 Winter Storm Pax	26,800
City of Rapid City, South Dakota	2013 Ice Storm	8,000
City of Sioux Falls, South Dakota	2013 Ice Storm	26,700
State of Connecticut	2011 Winter Storm Alfred	57,200
Henrico County, Virginia	2011 Hurricane Irene	15,500
Texas Department of Transportation	2011 Texas Drought and Wildfires	5,800
City of Raleigh, North Carolina	2011 Tornado	7,500
Arkansas Game and Fish Commission	2009 Ice Storm	48,900
City of Houston, Texas	2008 Hurricane Ike	212,500
Terrebonne Parish, Louisiana	2008 Hurricane Gustav	14,500
City of Norman, Oklahoma	2007 Midwest Ice Storm	26,800
Greene County, Missouri	2007 Midwest Snow Storm	53,900
Genesee County, New York	2006 Ice Storm	9,100
Town of Amherst, New York	2006 Ice Storm	32,700
City of Fort Lauderdale, Florida	2005 Hurricane Wilma	20,400
Santa Rosa County, Florida	2005 Hurricane Dennis	13,700
Escambia County, Florida	2004 Hurricane Ivan	15,100

Hazardous Material Removal

Major disasters (particularly those that involve significant flooding) will result in the need to address hazardous materials. Typically, the U.S. Environmental Protection Agency (EPA) is responsible for identifying and removing large quantities of household hazardous waste (HHW) (containers over 5 gallons such as large commercial/industrial storage tanks, propane tanks, 55-gallon drums, etc.). Local governments are charged with implementing collection programs for HHW, including containers with paints, pesticides, household cleaners, oils/solvents, fuels, etc. Our team has significant experience helping local governments plan, procure, implement, and track disaster-related HHW collection programs at curbside or drop-off locations. Following Hurricane Ike, which resulted in a storm surge that covered almost all of Galveston Island, our team helped the City of Galveston implement one of the largest post-disaster HHW programs in U.S. history, in addition to working cooperatively with the EPA on large quantity HHW recovery.

Vessel and Vehicle Recovery

Tetra Tech is able to assist the County in documenting the locations and quantities of vessel and vehicle debris in the County and presenting a case to FEMA to approve and fund the program. The County must first show that they have a legal responsibility to remove the debris and that the debris is not the responsibility of another state or federal agency such as the Florida Department of Environmental Protection, USACE, or the NRCS. Vessel and vehicle debris on private land may present unique ingress/egress challenges and require ROE agreements for access. ***Our team monitored vessel debris removal efforts following Hurricane Sandy on behalf of the NJDEP and provided similar services to Escambia County, FL and Monroe County, FL (Florida Keys) following the 2004 and 2005 hurricane season.***

Section 1: Experience of the Firm

Asbestos Containing Material Management

Through our team's years of demolition experience, including our previous engagements in Iowa following the 2008 flood, our team of experts has developed best management practices for documenting and monitoring work related to Asbestos Containing Material (ACM). Tetra Tech's best management practices for ACM collection, remediation, and disposal meet state and local regulatory agency requirements. Tetra Tech will collect and catalog all pertinent information related to the ACM content, or lack thereof, for a property. Once the remediation contractor has removed and wrapped the ACM, Tetra Tech will document the transfer of custody through final disposition. As part of the ACM documentation process, Tetra Tech will also collect and pair all waste shipment records to the respective load tickets. Additionally, during the course of the project if Tetra Tech notices any lack of due diligence or potential for environmental violations, our management staff will notify County officials immediately and assist in creating a mitigation strategy. In the instance of non-ACM debris removal, Tetra Tech will collect and digitally link all TDMS or landfill manifest with the corresponding load ticket.

Data Management

Our team has spent years researching and developing an effort to streamline the debris collection documentation process with a focus on minimizing the cost to our clients and improving the visibility of debris project operations. Our ADMS, RecoveryTrac™, is the result of these efforts. RecoveryTrac™ is a scalable and fully featured disaster management application designed specifically to address the operational challenges faced during a disaster recovery project. Managing the enormous volume of documentation generated during a debris monitoring operation was paramount to the design of our ADMS. ***This state-of-the-art technology has already shown to increase the efficiency and improve the management of debris removal efforts for multiple clients.***

Hauler Invoice Reconciliation and Contracting

To expedite contractor invoice reconciliation efforts, Tetra Tech requires copies of all primary debris hauler contracts with the County. After reviewing the contracts, Tetra Tech will set up our ADMS, RecoveryTrac™ database to generate transactions for tickets issued to each debris contractor. Tetra Tech will then meet with each primary debris contractor to review the debris contractor reports that will be generated automatically through RecoveryTrac™. The debris contractor reports will provide each contractor with sufficient data to reconcile with their subcontractors as well as generate invoices for payment by the County. Several quality assurance (QA) and quality control (QC) checks will be conducted on data before it is provided to the contractor. RecoveryTrac™ significantly reduces the amount of time needed for a contractor to generate an invoice and for the subsequent invoice reconciliation with Tetra Tech. For more information on our hauler invoice reconciliation and contracting, please see **Section 2: Capacity & Expertise**.

FEMA Appeal Assistance and Support

Our staff has an outstanding track record of getting our clients reimbursed, with more than 200 major disaster recovery mobilizations over the past 10 years. Given the nature and scrutiny of FEMA reimbursement, it is not unusual for a local government to have one or more project worksheets questioned by FEMA/Office of Inspector General (OIG) during the audit process. We routinely work with our clients in these matters—oftentimes for years following an event—to support and defend their reimbursement.

Furthermore, ***due to our staff's in-depth knowledge of FEMA reimbursement policies, we are often hired by applicants to assist them during FEMA/OIG audits and support them during FEMA appeals even when we have had no involvement with the applicant during the recovery period.*** Our team of recovery experts is currently working with the Port of Galveston, Texas, to close out Hurricane Ike-related projects. To date, we have been able to identify and capture over \$80 million in previously unidentified or deobligated funding. The following are a few examples of areas in which our staff has successfully supported the appeals effort of our clients with FEMA:

Section 1: Experience of the Firm

- **South Broward Drainage District.** Following Hurricane Wilma, our team prepared an appeal in support of \$4 million in reimbursement associated with lake erosion repairs made by the South Broward Drainage District. With our team's support, the South Broward Drainage District was fully reimbursed.
- **Lake County, Florida.** Our team supported the successful appeal of over \$400,000 of previously deobligated funds in response to the 2004 Hurricanes Charley, Frances, and Jeanne. These funds were associated with debris collected on private roads and gated communities. Our team did a comprehensive geographic information system (GIS) analysis of all of the debris collected on the roads in question and was able to appeal the decision and obtain reimbursement from FEMA for these County-incurred costs.
- **Port of Galveston, Texas.** The Port of Galveston experienced extensive damage due to storm-induced erosion caused by Hurricane Ike surge that reached heights upward of 20 feet. The pier was not designed to withstand the water weight and rapid draw down of the water. As a result, the concrete sheet pile was damaged and caused the fill underneath the warehouse slab to wash out, thus compromising the support of the warehouse floor. The floor collapsed near the most significant voids underneath the base. FEMA deemed the damage ineligible due to subtle erosion that happened over time. The Port of Galveston, with the assistance of our team of experts, submitted an appeal for eligibility and won the appeal resulting in an approval of a \$1.5 million for Pier 15. More importantly, the appeal approval has established precedence for the Port of Galveston's remaining Ike-damaged piers, enabling the Port of Galveston to apply for an additional \$80 million of funding due to damage caused by Hurricane Ike previously deemed ineligible.

Section 1: Experience of the Firm

REFERENCES

Similar to the services being requested by the County, our team has successfully assisted over 300 clients with recovering from the damaging effects of hurricanes, tropical storms, tornadoes, floods, and ice storms across the country. Our efforts have allowed our clients to maintain their focus on continuing daily operations while relying on us to oversee the management of debris removal operations and federal reimbursement in compliance with FEMA and FHWA guidelines and reimbursement procedures.

The following projects are a representative sample of our experience and accomplishments in performing services that are similar in scope, complexity, and magnitude to the County. Per County's request, we have included references on the County's reference form. *When contacting these references, please recall that some of these projects were performed under the BDR Division, which is now Tetra Tech, Inc.*

Disaster Debris Program Management City of Miramar, Florida



Immediately following the landfall of Hurricane Katrina in 2005, our team was onsite in the City of Miramar mobilizing an emergency response team to provide comprehensive disaster recovery services. Our firm provided comprehensive collection and disposal monitoring activities for over 500,000 CYs of debris.

In October of the same year, Hurricane Wilma accelerated across South Florida and struck Miramar from the Gulf of Mexico. Our team quickly ramped up existing operations and continued monitoring the collection debris throughout the city. Staff worked with the City of Miramar to

develop Category A project worksheets to immediately infuse cash flow into the City of Miramar's general fund. In addition, our team provided FEMA compliance oversight on leaner, hanger, and stump removal operations performed by the City of Miramar's contractor.

Additional duties provided by our firm included load ticket QA measures, data entry, and contractor invoice reconciliation. The team provided FEMA project worksheet data preparation for Hurricanes Katrina and Wilma, assisting the City of Miramar, the Florida Department of Emergency Management (FDEM), and FEMA staff with the preparation of project worksheets for approximately \$8.9 million in FEMA funding.

Reference: Mr. Ralph Trapani, Solid Waste Manager, Public Works Department

13900 Pembroke Road, Building L, Miramar, FL 33027

Phone: (954) 883-6832 | Email: ratrapani@miramarfl.gov

Project Dates: October 2005–June 2006 | **Project Cost:** \$8,909,115 | **Cubic Yards:** 511,933

Section 1: Experience of the Firm

Disaster Debris Program Management St. John the Baptist Parish, Louisiana



On August 28, 2012, the 7-year anniversary of Hurricane Katrina making landfall in Louisiana, St. John the Baptist Parish was more adversely affected by the prolonged wind and rain that accompanied Hurricane Isaac than any other parish in Louisiana.

As a result of the slow-moving Category 1 storm, 59,000 homes were damaged statewide with some of the most severe damage in St. John the Baptist Parish (Parish). Floodwaters from Lake Pontchartrain surged underneath Interstate-10 and flooded the Parish's north and east sides, causing widespread road closures, which greatly limited access to the Parish. Nearly 95 percent of the Parish's power was lost and 7,000 damaged homes were left completely under water.

In the days prior to landfall, Tetra Tech's senior management team began mobilizing to the area and was in coordination with the Parish to establish an immediate response plan, identify reporting needs, and establish temporary debris storage and reduction sites (TDSRS). Within two hours of a notice to proceed, Tetra Tech had established office space within the Parish and begun recruiting, hiring, and training qualified monitors. Tetra Tech proudly kept our promise to the Parish administration and council members to only hire Parish residents during our activation. Within days, Tetra Tech hired and trained 103 previously unemployed, qualified residents to monitor debris removal activities.

Operationally, Tetra Tech worked with Parish officials and its debris hauler to establish protocols for ROW and hazardous waste debris removal; identify, permit, and open TDSRS; schedule daily debris removal; and provide accurate daily reports. In addition, Tetra Tech worked closely with representatives from FEMA to develop a disaster-specific strategy to collect the overwhelming amounts of construction and demolition from private property that was a result of the storm. Finally, Tetra Tech's successful use of our proprietary ADMS allowed us to document the debris removal as accurately and cost effectively as possible.

Reference: Mrs. Natalie Robottom, Parish President, St. John the Baptist Parish
1801 W. Airline Hwy., LaPlace, LA 70068

Phone: (985) 652-9569 | Email: robottom@sjbparish.com

Project Dates: September 2012–July 2013 | **Project Cost:** \$1,413,154 | **Cubic Yards:** 511,933

Section 1: Experience of the Firm

Disaster Debris Program Management Dorchester County, South Carolina



Days before impact, the Tetra Tech senior management team and Dorchester County officials prepared for Winter Storm Pax's arrival. Immediately after the storm had cleared the area, Tetra Tech and Dorchester County executed a plan to maximize the value of the County's existing mutual aid agreements for debris removal, while initiating contract debris hauling and monitoring operational plans to be activated when the County's mutual aid resources were no longer available.

Upon a notice to proceed, Tetra Tech, including previously hired and trained local residents, immediately began truck certification, ROW debris collection monitoring, and removal monitoring for dangerous

hanging limbs and leaning trees. ***To date, Tetra Tech has used our proprietary ADMS, RecoveryTrac™, to successfully monitor and document the removal and reduction of nearly 90,000 CYs of debris and the removal of over 11,000 hanging limbs and leaning trees.***

Reference: Mr. Mario Formisano, Emergency Management Director, Dorchester County
212 Deming Way, Suite 3, Summerville, SC 29483
Phone: (843) 832-0341 | Email: MFormisano@dorchestercounty.net

Project Dates: March 2014–April 2014 | **Project Cost:** \$537,788.91 | **Cubic Yards:** 91,000

Section 2: Capacity & Expertise

CAPACITY AND EXPERTISE

ABILITY TO HANDLE MULTIPLE CONTRACTS

Tetra Tech takes great pride in the reliability and high quality of our services. ***Clients count on us to respond in their time of need, and we deliver.*** To successfully manage multiple contracts, Tetra Tech reviews its projected workload and assesses the firm's staffing requirements on a continuous basis to provide responsive services to all our clients. Tetra Tech is careful not to over commit our staff. Each project is assigned a project manager who is responsible for the effective and efficient performance of the engagement. ***Our project managers are senior-level professionals with extensive disaster management and recovery experience.*** Once a project has been initiated, Tetra Tech maintains communication with the client throughout the engagement, allowing potential project pitfalls to be identified and dealt with proactively.

Tetra Tech is proud of our commitment to our clients. From rapid mobilization to ongoing project consultation, closeout, appeal, and audit support months or years after the last piece of debris is removed, Tetra Tech is there to stand by our work. ***We will work to obtain and retain the maximum available reimbursement for the County.*** Our track record exemplifies this commitment to stay the course with our clients to the end.

Tetra Tech has carefully reviewed the scope of services and is aware of the importance of committing the necessary resources to carry out the tasks associated with this project. ***We are committed to providing a consistent and coordinated team to perform this important work for Broward County.***

Ability to Handle Multiple Activations

Tetra Tech has never failed to respond to our clients' deployment and mobilization needs, regardless of location or the type of disaster. Essential Tetra Tech staff with experience in large-scale rapid deployments have personally hired and deployed approximately 10,000 emergency response personnel collectively for more than 40 disasters. In all cases, Tetra Tech helped maximize the available reimbursement for eligible work performed. Tetra Tech's commitment to our client's needs begins before or immediately following the impact of a disaster debris-generating event and continues through the state and federal closeout processes.

Our commitment to our client's needs begins before or immediately following the impact of a disaster debris-generating event and continues through the state and federal closeout processes. Tetra Tech has been involved in every major response effort in the past 10 years, including Hurricanes Katrina, Rita, Ike, and more recently, Hurricane Sandy.

In 2008, our team was activated on behalf of 118 cities and counties spanning the Gulf Coast from Brownsville on the southern tip of Texas to the southern tip of Louisiana in response to Hurricane Ike. We provided over 3,000 emergency response personnel immediately following the storm to assist with response and recovery activities and are still working with the affected communities to help them recover from the disaster. As testament to our continued commitment to our clients, Tetra Tech is still assisting several clients with their recovery from Hurricane Ike by providing Public Assistance (PA) support.

TECHNICAL APPROACH

Tetra Tech implements a best practices approach to disaster debris monitoring when planning for and responding to debris-generating events. Tetra Tech has carefully reviewed the scope of work requested in Broward County's request for proposal (RFP) and can assure the County that we have the extensive experience, understanding, and knowledge of the County to successfully perform all aspects of the scope of work. We are aware of the magnitude and importance of organizing and directing the necessary resources to define and carry out the tasks associated with the scope of work, and we are committed to providing a consistent and coordinated team to

Section 2: Capacity & Expertise

perform these services upon activation. Our project team will continue to dedicate themselves to the County's needs throughout the year, not just during times of activation.

Damage Assessment/Debris Estimates

Our approach to damage assessment begins with the Federal Emergency Management Agency (FEMA) 329 guidelines and the Tetra Tech project manager coordinating with the end users' debris manager or other assigned individuals to identify the specific damage assessment services requested (for example, debris-related, structures, and utilities).

Debris Estimation

A key element of the damage assessment process is determining the quantities of debris created by the event throughout the affected areas. To adequately plan and mobilize for a disaster debris recovery effort, it is critical to understand the potential quantities of debris that may be generated. Tetra Tech has found that rather than relying on a single approach, a combination of debris-estimating methodologies generally produces a more accurate estimate. The following debris-estimating methodologies will be used by Tetra Tech:

- **U.S. Army Corps of Engineers (USACE) Debris-Estimating Model.** This is a widely used model that takes into account factors such as hurricane category, population base, amount of vegetative cover, etc.
- **Drive-by Parcel Survey.** This survey estimates the average quantity of debris per parcel and multiplies the debris per parcel figure by the total number of parcels (residential, commercial, or both) in the applicable jurisdiction.
- **Flyover.** The flyover is used to determine whether the debris field is isolated in certain areas or spread throughout the entire jurisdiction.
- **Personal Estimates.** Tetra Tech staff and debris contractors who are experienced in disaster recovery efforts will perform personal estimates for the County.

Each of these methodologies will be considered when developing an estimated debris volume for the County.

Time and Materials

The emergency push period begins immediately following an event. Tetra Tech will work with the debris removal contractors, in coordination with County crews, to first clear the blocked roadways for emergency vehicle passage to critical facilities. Tetra Tech is prepared to assist during the push period by providing the following services:

- Documenting blocked roads that require immediate clearance
- Administering the sign-in and sign-out of labor and equipment to track T&M charges
- Helping staff maintain maps or databases to track road clearance progress and other essential tasks, as requested
- Maintaining documentation for reimbursement of emergency push work

On-Boarding/Hiring Approach

Immediately following the impact of a known event, Tetra Tech will establish Human Resources (HR) hiring centers in the field throughout the region in the affected areas. The hiring center provides efficient hiring and training processes that meet the stringent Tetra Tech field operation requirements and any specific requirements of our clients. The hiring center is designed to be quickly mobilized, transported, and set up to allow near immediate response for field staffing needs. The hiring center is typically staffed by three trained HR representatives and can process hiring of hundreds of staff per day. The hiring center can be quickly scaled to meet the most demanding needs for staff. The hiring center advertises locally and reaches out to local workforce centers to utilize persons seeking employment in the community.

Section 2: Capacity & Expertise

Vehicle Certification

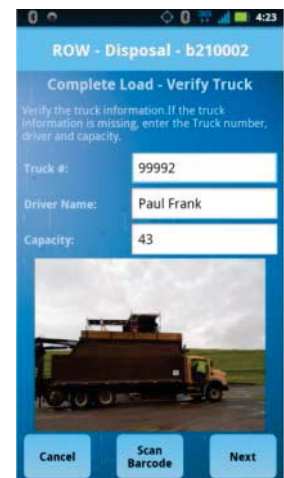
Tetra Tech has a proven vehicle certification procedure that complies with FEMA 325 and 327 guidelines to maximize reimbursement for our clients.

Tetra Tech will certify all trucks used in an activation via the mobile application included in our automated debris management system (ADMS) technology. Benefits of using the mobile truck certification application include **electronic volume calculations**, instant upload to the RecoveryTrac™ database to allow a QA/QC check to immediately verify the truck certification is calculated correctly, and automated photo matching of truck and driver photographs to the truck. The truck certification application allows us to complete truck certifications in **30 percent less time than with a paper-based system**.



Our disaster debris vehicle certification procedure includes the following:

- Automated truck certification form, which includes the latest FEMA guidelines on truck certification documentation and volume calculations and a bar code for automated ticket scanning
- Special vehicle notations on the truck certification form and vehicle placard, which inform tower monitors of sideboards, tailgates, or other modifications, thus discouraging debris removal contractors from fraudulently altering vehicles after certification
- Photographs of vehicles, vehicle cavities, and drivers
- Periodic spot checks and recertification of trucks to identify trucks altered after initial certification
- Visual inspections of motor vehicle compliance with support from a County staff member, which can be done at the time of inspection or through our QC in real-time from an office environment



Monitoring the Removal of Debris

Tetra Tech deploys loading site monitors to monitor the activities of each debris removal crew. Loading site monitors will document the initial step when tracking debris from collection to disposal. RecoveryTrac™ load tickets document where and when debris is collected along with other required information. Tetra Tech loading site monitors will also mark where every load of debris is collected using the RecoveryTrac™ waypoint system. This information can be used by multiple entities (the County, municipalities that may fall under the County's program, debris hauler, Florida Department of Transportation (FDOT), Florida Department of Environmental Protection (FDEP), local town or city) to verify completeness and maximize project schedule.

The bullets below highlight various aspects of Tetra Tech's debris removal monitoring program.

- **Operations.** Field collection monitors report to a staging location prior to the field operations beginning for a briefing to be given by the project manager or field supervisors and the distribution of safety gear (for example, caution lights or safety vests), map books, and ADMS handheld units/debris tickets.
- **Deployment.** A field monitor is assigned to one loading unit.

Section 2: Capacity & Expertise

- **Field Supervision.** Responsibilities of the field supervisor include training, QA/QC of work being performed, verifying load ticket accuracy, and responding to field monitor and debris contractor issues in the field.
- **Responsibilities.** Field monitors will verify the proper loading of debris into the debris removal contractor's certified loading container. Monitors will document that contractors and their subcontractors adhere to local, County, and federal regulations and that they are working safely and efficiently. Field monitors often notice inconsistencies with debris removal procedures and submit them to their supervisors. If a field monitor feels there is justifiable need to stop operations, the monitor is instructed to refrain from issuing a ticket until the debris hauler supervisor and a Tetra Tech supervisor can be called in to determine the appropriate action.
- **Work Scheduling.** Tetra Tech will coordinate with the debris removal contractor's project manager to estimate the number of field monitors that will be required for the following day. To be responsive and mitigate overstaffing, Tetra Tech requests that the debris hauler release the next day's schedule by 5 p.m. so that the appropriate number of field monitors is dispatched.
- **Daily Closeout.** At the close of operations each day, all collection and disposal monitors will report to the staging area to clock out and turn in their ADMS handheld units.
- **Ineligible Debris.** Tetra Tech will supply door hangers and tags for ineligible debris. The format for both items will be submitted to the County for review and approval. At the discretion of the County, Tetra Tech will distribute door hanger and tags for ineligible debris within the County.
- **Control Point Monitoring.** If requested by the County, Tetra Tech can assign loading site monitors at designated control points identified by the County and coordinated with the debris hauler. As debris loads are completed, the loading site monitors at control points will issue tickets to validate the debris was collected from the designated area for the control point.
- **Contractor Completion.** Tetra Tech will assist in completing the project efficiently and within the time lines set forth in the RFP. There are many aspects of debris removal that are outside of the monitoring firm's control but will still need to be managed. Tetra Tech will assist with managing these goals, including the following:
 - The ability of a debris contractor to respond with sufficient equipment will affect the proposed schedule. Tetra Tech will provide burn rate analysis to verify the proper equipment is being provided. This will be adjusted as more accurate debris estimates are available.
 - Invoices by the contractor need to be produced in a timely manner so that Tetra Tech can reconcile in a timely manner. Tetra Tech will work to make the contractors aware of an appropriate time frame for invoicing and will communicate with the County if deadlines are not being met.
 - Deadlines for collecting debris are set to correspond with the work schedule that is based on estimated work to be completed. As damage estimates become more accurate (as is typical throughout the process), Tetra Tech will work with officials to adjust the timeline appropriately to reflect the changing estimates.

TEMPORARY DEBRIS MANAGEMENT SITE MONITORING

Temporary debris management site (TDMS) locations are approved areas where debris contractors can truck eligible debris so it can be further separated or processed before being hauled to a final disposal facility. Tetra Tech can assist the County in obtaining necessary permits or approval of designated TDMS as requested by the County. Debris is quantified by volumetric load calls. Towers are set up, and ingress and egress patterns are established. Each site will be restricted to a maximum capacity that will need to be monitored. Tetra Tech will provide a minimum of two monitors per site, which may increase or decrease based on need. The Tetra Tech monitors will be prepared to work a 12–14 hour shift, 7 days per week. Construction and demolition debris may be directly hauled to a final disposal facility. Specific documentation kept by TDMS monitors includes the following:

- **Load Ticket.** The load ticket is used to document debris removal.

Section 2: Capacity & Expertise

- **Disposal Monitor Log.** The disposal monitor log is used as backup documentation (and serves as a fail-safe if any documentation is missing).
- **Scale Manifest Tickets.** If the debris hauling contract payment method is weight-based, tickets generated by the existing scales at the County’s TDMS will be digitized and cataloged by Tetra Tech.
- **Incident Report.** The incident report is used to document anything out of the ordinary while monitoring at the DMS, including property damage, arguments, unsafe practices, and personal injury.
- **Photographic Documentation.** Tetra Tech disposal supervisors will photograph a DMS frequently in order to create a visual timeline of the site.
- **QA/QC of Field Tickets.** DMS monitors must review and correct errors made by loading site monitors in the field.

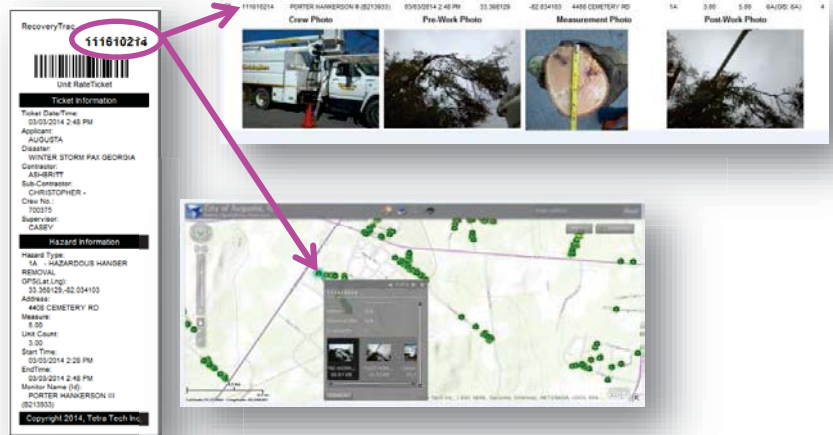
Due to the critical nature of load calls and the impact they can have on a project, Tetra Tech has developed a thorough Disposal Monitor Training Program that will be reviewed by every disposal site monitor for consistency in load calls. After a load call has been made, the disposal site monitor will issue the truck driver a Tetra Tech QC ticket.

HAZARDOUS TREE REMOVAL

Guidance established in FEMA 325 and 327 requires supporting photo documentation for each ticket issued for hazardous tree or hanger removal services. The previous standard for monitoring firms was to take supporting photographs with a digital camera and manually associate the photos to each tree ticket. Tetra Tech can utilize RecoveryTrac™ ADMS technology to document all hazardous tree and hanger removal operations. Additionally, Tetra Tech ADMS technology and software is designed to manage photo documentation by compressing and securely storing photos for field validations and audits in real-time. The ability to associate photo documentation to unit rate tickets is critical for FEMA reimbursement, QA/QC, and fraud deterrence.

As work in the field is completed, the information and supporting photos are uploaded directly to our database for QA/QC checks. A QA/QC manager verifies that the photographs comply with FEMA regulations and that all measurements meet the District’s contractual agreement with the contractor.

Exhibit 2-2: Real-Time Ticket Report



DAILY REPORTING METRICS

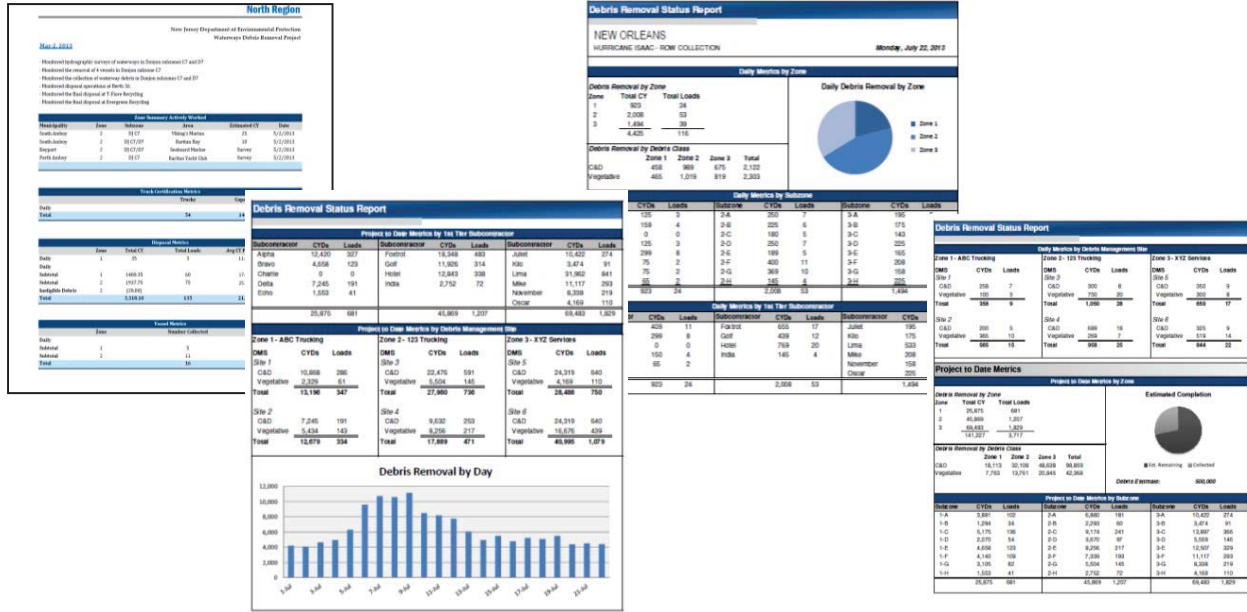
Tetra Tech has a suite of reports that are automated from RecoveryTrac™ and available in real-time via PC, tablet, or even smart phone. Our daily reporting metrics include but are not limited to the following:

- Daily operations cost accounting
- Debris contractor metrics and operations time by truck
- Daily load tickets and cumulative volumes

Section 2: Capacity & Expertise

- Daily reporting of ongoing work and completed areas of debris removal activities
- Fiscal reports, including:
 - Cost of monitoring operations (weekly or monthly)
 - Hauling cost data (weekly or monthly)

Exhibit 2-3: Sample Custom Reports Developed



Another key feature of the Tetra Tech ADMS technology is that it allows field monitors to report incidents and provide supporting photographs in real-time. These reports are then provided in real-time geospatially or exported into Excel sheets daily and are available to the County, local governments, and the debris contractor. As monitors complete incident reports in the field, the information and supporting photographs are uploaded to the reporting server.

Depending on the type of incident, priority e-mails may be sent out by the reporting server to County representatives, Tetra Tech project team, and debris contractor representatives. Our firsthand experience assisting local governments with recovering from disasters has shown that accurately capturing and photographing pre-existing damage can alleviate residential damage claims that may be submitted to the District. Additionally, the incident map developed from the collection information is essential to quickly identifying unresolved contractor damage before the completion of the program.

Section 2: Capacity & Expertise

Exhibit 2-4: Incident Reporting Tool

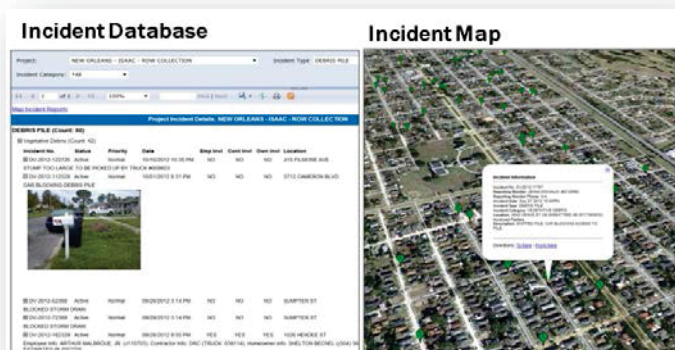


Exhibit 2-5: Missed Piles Tracking



PROJECT MANAGER'S DAILY REPORT

In addition to the standard daily reports, Tetra Tech's project management team will also provide a daily project manager's report. The daily project manager's report will be submitted to the County Debris Manager or their authorized representative daily. The project manager's report will include the following:

- Volumes of debris category collected
- Debris monitor metrics
- Maps depicting geographic areas where debris has been removed
- Tetra Tech's overall progress in completing task orders and estimated completion date
- Coordination issues (if any) with the contractor
- Damage claims or incident reports

CONTRACTOR RECONCILIATION

RecoveryTrac™ significantly reduces the amount of time needed for a contractor to generate an invoice and for the subsequent invoice reconciliation with Tetra Tech.

To expedite contractor invoice reconciliation efforts, Tetra Tech requires copies of contracts for all primary debris contractors. After reviewing the necessary contract(s), Tetra Tech sets up the RecoveryTrac™ database to generate transactions applicable to contract terms for tickets issued to each debris contractor.

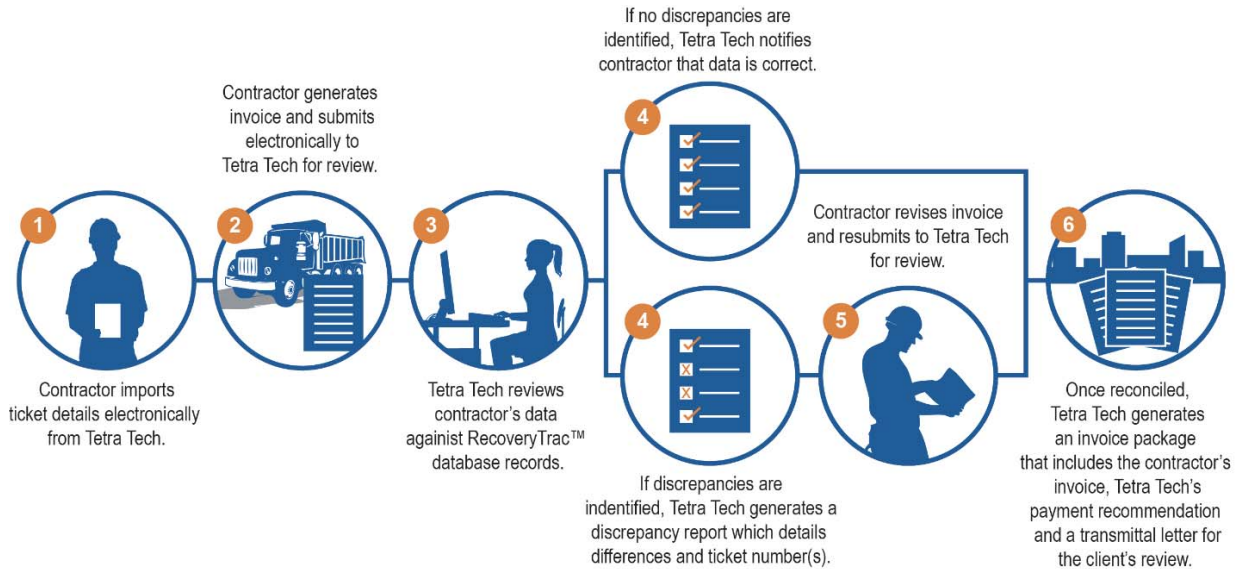
Next, Tetra Tech meets with each primary debris contractor to review the debris contractor project reports that will be generated automatically via RecoveryTrac™. The debris contractor project reports will provide the debris contractors with sufficient data to reconcile with their subcontractors as well as generate invoices for payment by the client. The debris contractor is given a report login, which enables them to access the data remotely. They may run the report for a specific date or a range of dates.

Tetra Tech conducts several real-time QA/QC checks throughout the day, and a final daily comprehensive data analysis is performed at the close of operations. A final QA/QC check is completed when the debris contractor sends the invoice dataset to Tetra Tech for reconciliation. Incongruences in the debris contractor's data are flagged for review and must be resolved prior to the issuance of a final invoice.

The step-by-step process for contractor invoice reconciliation in a RecoveryTrac™ project is outlined below:

Section 2: Capacity & Expertise

Exhibit 2-6: Contractor Invoice Reconciliation Process



PROJECT CLOSEOUT

Upon project completion, Tetra Tech will prepare both physical records as well as RecoveryTrac™ database digital documentation for submittal to the County. Physical documentation such as load tickets, truck certificates, and field logs are organized and packaged in a manner conducive to easy retrieval. In addition to the physical documentation, Tetra Tech provides a final data export of the RecoveryTrac™ database, which serves to hasten any forthcoming auditing efforts. The records extracted from the database contain a digital copy of the ticket given to the contractor and the corresponding supporting photographic and/or supplemental documentation, truck certificate images and corresponding photographic documentation, and digital copies of all invoice payment recommendation packages that have been issued for the project. The ticket line item data is conveniently hyperlinked so that a simple click will yield the desired images. The RecoveryTrac™ final export data may be provided either via DVD or external hard drive.

TETRA TECH		Project Closeout Checklist	
Client Name		Client Address	
Client Project Manager		Program	
Client Project Contact		Phone	
		Tetra Tech Project Manager	
		Phone	
		Tetra Tech Program Manager	
		Phone	
FIELD OPERATIONS			
<input type="checkbox"/>	Field monitoring activities concluded		
<input type="checkbox"/>	Field equipment returned and inventoried		
<input type="checkbox"/>	Verify field monitor timetables and logs are reviewed and submitted		
<input type="checkbox"/>	Coordinate with Logistics to demobilize staff and equipment		
SECURE DISPOSITION			
<input type="checkbox"/>	Coordinate with contractor and vendors to resolve and complete damage reports		
<input type="checkbox"/>	Coordinate with Client to address and close any outstanding complaints		
<input type="checkbox"/>	Resolve identified Quality Management System deficiencies		
<input type="checkbox"/>	Prepare final incident report with supporting incident data report and submit for review approval		
FINANCE			
<input type="checkbox"/>	Coordinate with contractor and vendors to resolve any remaining unpaid transactions		
<input type="checkbox"/>	Coordinate with contractor and vendors to reconcile and finalize outstanding invoices for rendered work		
<input type="checkbox"/>	Coordinate submission of Letter of Invoice Finalization to the Client		
<input type="checkbox"/>	Verify retainage for contractor and vendor invoices are released		
<input type="checkbox"/>	Verify all bills receivable and contractor invoices are paid		
<input type="checkbox"/>	Verify retainable expenses have been submitted for remaining project activities		
CLIENT DELIVERABLES			
<input type="checkbox"/>	Coordinate with Client to obtain final electronic data export format(s)		
<input type="checkbox"/>	Collect and inventory required paper documentation and prepare transmittal for Client acceptance		
<input type="checkbox"/>	Perform data export(s) and prepare user documentation		
<input type="checkbox"/>	Organize and review project electronic documentation to project archive per Tetra Tech project archive policy		
<input type="checkbox"/>	Perform Program Manager review of project deliverables and correct noted deficiencies		
<input type="checkbox"/>	Present documentation package to Client for acceptance and approval		
COMMENTS/NOTES			

Section 2: Capacity & Expertise

RECOVERYTRAC™ AUTOMATED DEBRIS MANAGEMENT SYSTEM

In today's technology-driven society, paper-based systems are quickly becoming obsolete. Recognizing the migration to electronic-based systems, our team has spent years on research and development in an effort to streamline the debris collection documentation process, with a focus on minimizing the cost to our clients while improving the visibility of debris project operations. RecoveryTrac™ is the result of these efforts. RecoveryTrac™ is a scalable and fully featured disaster management application designed specifically to address the operational challenges faced during a disaster recovery project. **Our proprietary ADMS technology, RecoveryTrac™, meets USACE specifications for electronic debris monitoring**, provides real-time collection of data, and offers multiple solutions to data management, reporting, invoice reconciliation, and project controls that cannot be achieved with a paper-based program. **Tetra Tech has also implemented RecoveryTrac™ ADMS technology on the last 32 FEMA PA eligible projects.** On these projects, our clients and FEMA found this state-of-the-art technology to increase efficiency and improve the management of debris removal efforts.

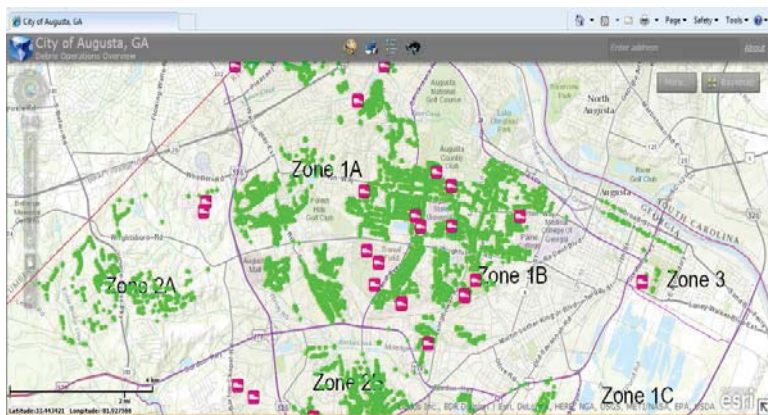


- Owned and operated by Tetra Tech
- Over 800 mobile units on-hand and ready for state-wide multi-district mobilizations
- Meets USACE specifications for electronic debris monitoring handhelds
- Real-time situation awareness of field resources and efficient direction to support County priorities
- Real-time GIS web services for EOC information and visualization systems
- Capable of collecting data regardless of cellular service
- Automated photograph and GPS capture
- Provides reports and pass map tracking in real-time
- Minimizes chance of fraud through real-time monitoring
- Minimizes data entry and human error
- Expedites invoice reconciliation
- Intuitive and user-friendly

Real-Time Information and Visualization Increases Efficiency

Over the last several years, the cellular industry has invested heavily in the hardening of infrastructure in areas most susceptible to environmental disasters. We have taken advantage of these improvements by partnering with the Tier 1 providers to get the information from the field as quickly as possible, ideally in real-time. Field devices are constantly looking for connectivity to immediately upload collected information. Once the field data is uploaded, RecoveryTrac™ geospatial services provide rich information and visualization of the field data. Using the emergency operations center (EOC) operation board concept, users can visualize everything from damage concentrations to field debris equipment locations and more. The end result is better information, resulting in better decisions and less waste.

Exhibit 2-7: Previous Collection and Current Truck Location



Coordinated Reporting and Quality Control

RecoveryTrac™ ADMS can provide the one-stop information in a consistent, easily consumed format that can provide a multi-precinct/countywide operations status picture. These data feeds are in real-time; there is no spreadsheet to import and no conversion—just a single GIS web data service to pull required information. Some examples of data included:

- Road Clearance Status (Pass Map)

Section 2: Capacity & Expertise

- Hazard Removal Locations
- Debris Pickup Locations
- Truck and Monitor Locations
- Reported Damage Locations
- Debris Removed

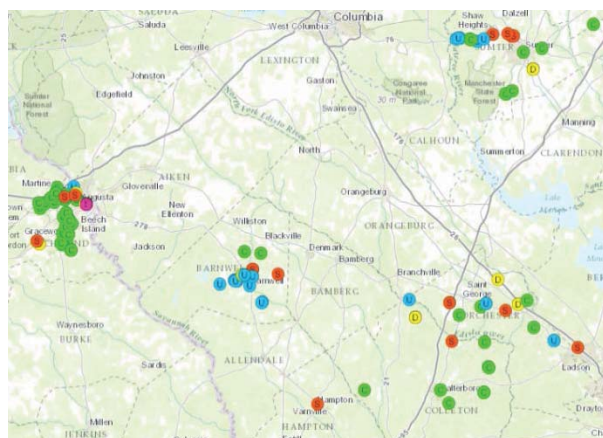
Data managers assigned to continuously monitor the information flowing into the system check for potential problems and dispatch supervisors to respond to the problem. The system monitoring panel shows real-time statistics and potential problems for operations based on exhaustive in-process quality checks that occur continually. The exhibit below details how we use RecoveryTrac™ ADMS to meet our quality standards using the direct monitoring and immediate feedback technique.

Debris Tracking

RecoveryTrac™ allows real-time access and visibility into field operations. At each debris collection point, the roadway monitor marks the “waypoint” or location of the debris pile to collect GPS coordinates. The map below displays the waypoints associated with each collection ticket issued in the field. The waypoint collection report is updated in real-time and can be filtered by date.

An additional feature of our ADMS technology is that each handheld device reports back the location of the device regularly. By leveraging this location information, Tetra Tech can view monitor locations and truck locations in real-time, as demonstrated in Exhibit 2-8.

Exhibit 2-8: Monitoring Locations



UNDERSTANDING OF FEMA PROGRAMS, POLICIES, AND REQUIREMENTS

Our approach to debris monitoring has been tested on over 200 clients in over 15 states in the past 10 years. From our project management plan to data reporting, reconciliation, and final closeout, our staff is trained and ready to implement our approach with or without warning. As demonstrated throughout our approach, Tetra Tech has the experience to assist the County in verifying compliance with the FEMA Public Assistance Program and Policy Guide, which supersedes previous FEMA publication guidance such as FEMA 321, FEMA 322, FEMA 323, FEMA 325, and FEMA 327. Tetra Tech can also assist the County in verifying compliance with FHWA-ER including recent changes based on the Moving Ahead in the 21st Century (MAP-21) Act.

Section 3: FEMA Reimbursement Experience

FEMA REIMBURSEMENT EXPERIENCE

FEMA PA CONSULTING SERVICES

As one of the nation's premier providers of hazard mitigation, emergency preparedness, and response and recovery services, Tetra Tech is dedicated to helping our clients plan for, respond to, and recover from natural and human-caused disasters. Tetra Tech maintains a multidisciplinary staff with experience in disaster response and recovery, grant administration, and emergency management. Many are first responders, former state and local emergency management directors, and consultants who have been at the forefront nationally in developing strategies and plans in support of the U.S. Department of Homeland Security's (DHS) National Recovery Goals.

Tetra Tech offers a complete, end-to-end solution that empowers our clients to protect their most critical assets in times of chaos.

Of particular relevance is our understanding of Federal Emergency Management Agency (FEMA), Federal Highway Administration (FHWA), and other reimbursement agencies' requirements for eligibility, documentation, and reimbursement. Over the past 20 years, our grant management experts have assisted clients with applying for and retaining grant funds, even after closeout and audit processes. Our team has extensive experience assisting local and state governments with managing and documenting projects that are eligible for federal funding through the FEMA Public Assistance (PA) Program, including multiple, large PA programs for the States of Vermont, South Dakota, and Connecticut. Our team also has significant experience with FHWA Emergency Relief (FHWA-ER) federal reimbursement, having assisted over 60 clients with FHWA application, project management, and reimbursement. ***Our team's record of success spans over 300 state and local government clients in response to over 40 presidential disaster declarations, representing the recovery of more than \$3.5 billion in disaster grant funds. These activations have yielded grant program management engagements resulting in clients not only garnering grant funds but in retaining 99.8 percent of the funds received.*** Tetra Tech has extensive direct experience with the following grant programs:

- FEMA PA Program
- FEMA Hazard Mitigation Grant Program (HMGP)
- FEMA Flood Mitigation Assistance (FMA) Program¹
- FHWA-ER Program
- FHWA Transportation Investment Generating Economic Recovery Grant
- Natural Resources Conservation Service (NRCS) Emergency Watershed Protection
- U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant (CDBG)

Tetra Tech understands the County is seeking to retain the services of an experienced disaster debris removal monitoring and consulting services firm to assist in augmenting County forces following a major debris-generating event. Tetra Tech is a nationally recognized program management consulting firm, specializing in assisting local governments (sub-grantees under the PA program) maximize their opportunity for federal funding for debris removal activities. As illustrated below, Tetra Tech maintains best-in-class services in all areas potentially required following a disaster event.

¹Formerly three separate grant programs: FEMA Severe Repetitive Loss Program, FEMA Repetitive Flood Claims Program, and the FEMA Pre-Disaster Mitigation Program.

Section 3: FEMA Reimbursement Experience

Exhibit 3-1: Program Management Services

Service Area	Tasks
Comprehensive Project Management	<ul style="list-style-type: none"> • Development of a Project Management Plan (i.e., Monitoring Plan) • Issue resolution (staff, elected officials) • Monitoring workforce staffing, training, equipment, safety training, and enforcement • Logistical operations, mobilizations, and transportation • Compliance with all federal, state, and local rules associated with monitoring operations • Review of all contractor damage reports • Preparation of documents to support available federal and state cost reimbursement mechanisms: <ul style="list-style-type: none"> ○ FEMA PA ○ FHWA Emergency Relief ○ NRCS (waterways) • Quality assurance (QA)/quality control (QC) program management
Emergency Roadway Clearance (Push Period) Assistance	<ul style="list-style-type: none"> • Equipment registry and tracking • Debris/waste management workforce registry and tracking
Damage Assessment Services	<ul style="list-style-type: none"> • Coordination with County staff and contractors • Data management and intake from multiple sources • Debris estimation • Reporting to appropriate entities (FEMA, Florida Department of Emergency Management [FDEM], County, etc.)
Public Information Support	<ul style="list-style-type: none"> • Press releases to local media outlets (TV, broadcast radio, internet) • Distribution of residential door-hanger program • Ongoing situation reports on status of program
Truck Certification	<ul style="list-style-type: none"> • Truck and trailer measurement, certification, placards, and photo documentation
Field Monitoring Activities	<ul style="list-style-type: none"> • Intensive field monitoring training program • ROW vegetative debris monitoring • ROW construction and debris (C&D) debris monitoring • ROW leaners, hangers, and stumps monitoring • ROW white goods monitoring • ROW hazardous, toxic and radioactive waste (HTRW) monitoring • Private property debris removal (PPDR)/right-of-entry (ROE) program monitoring • Beach screening/dune replacement monitoring • Parks debris monitoring • Abandoned vehicle and vessel monitoring • Roving/supervising monitors • Complaint resolution (residents)
TDMS Technical Assistance and Monitoring	<ul style="list-style-type: none"> • Site safety plan preparation and maintenance • Emergency permitting • Residential drop-off operations and monitoring • TDMS monitoring (i.e., load calls) • Real-time trip ticket oversight (QA/QC) • Complaint resolution (contractor)
Final Disposal Site Technical Assistance and Monitoring	<ul style="list-style-type: none"> • Beneficial use assessment • End-market assessment • Landfill contract negotiations • Final disposal site monitoring
Data Management	<ul style="list-style-type: none"> • Debris management tracking

Section 3: FEMA Reimbursement Experience

Service Area	Tasks
	<ul style="list-style-type: none"> • Data administration and entry • Invoice reconciliation • Detailed daily reports on the status, effectiveness, volumes handled, and other pertinent data for all debris operations
Project Closeout	<ul style="list-style-type: none"> • Compliance with all federal, state and local rules associated with monitoring operations • Submission of data to appropriate staff • Retention of records • Road-closeout procedures • Orphaned debris pile assistance
PA Support	<ul style="list-style-type: none"> • Development of Project Worksheet (PWs) • Completion of Advanced Funding Request • Regulatory assistance • FEMA audit support

Through our extensive experience, Tetra Tech’s management team has a detailed understanding of eligibility requirements and will work with the County to make sure they understand potential eligible versus ineligible tasks associated with this contract. If the County elected to move forward with any particular task that in our professional opinion would not be reimbursable, Tetra Tech would invoice those tasks separately than eligible project tasks so clear eligible invoices can be submitted for PW formulation.

DOCUMENTS IN COMPLIANCE WITH FEMA REGULATIONS

Tetra Tech employs a rigid field documentation protocol that complies with FEMA regulations and that our team has utilized successfully in more than 200 major activations. Historically, field documents have been paper forms with carbon copy backup. In addition to maintaining paper documentation, Tetra Tech performs nightly scanning of all paper forms (e.g., load tickets and truck certification forms) and enters them into our RecoveryTrac™ database so that electronic as well as paper documentation can be provided to the County as backup. On an automated debris management system (ADMS) project, our handheld system captures all the same information as a traditional carbon copy load ticket. Tetra Tech also requires our field monitors to maintain logs of all tickets, regardless of whether the ticket is paper or electronic, and requires tower monitors to log all loads observed at the tower. These logs serve as a critical backup to the ticket process. Monitors are also required to keep daily logs that account for their time throughout the day to substantiate billing and FEMA reimbursement for monitor time.

Upon project completion, Tetra Tech will prepare both physical records as well as RecoveryTrac™ database digital documentation for submittal to the County. Physical documentation such as load tickets, truck certificates, and field logs are organized and packaged in a manner conducive to easy retrieval. In addition to the physical documentation, Tetra Tech provides a final data export of the RecoveryTrac™ database, which serves to hasten any forthcoming auditing efforts. The records extracted from the database contain a digital copy of the ticket given to the contractor and the corresponding supporting photographic and/or supplemental documentation, truck certificate images and corresponding photographic documentation, and digital copies of all invoice payment recommendation packages that have been issued for the project. The ticket line item data is conveniently hyperlinked so that a simple click will yield the desired images. The RecoveryTrac™ final export data may be provided either via DVD or external hard drive. The list of project documents provided during closeout is as follows:

- Completed debris tickets and corresponding images
- Certifications of volume, descriptions, and images of trucks used for debris hauling
- Copies of any correspondences related to debris activities performed by the debris removal contract vendors

Section 3: FEMA Reimbursement Experience

- Contractor services invoice copies
- Summation report(s) of total volume(s) of debris removed at completion of the project
- Copies of reports of debris removal activities, for both the debris monitoring contractor and the debris removal contract contractor
- Documentation or reports on any unresolved issues relating to the debris removal, including damage claims, if any
- Any other pertinent information required through the U.S. Army Corps of Engineers (USACE) or FEMA relating to debris removal activities
- Final payment recommendations for the debris management contractor’s and debris removal contract vendor’s performance

All documents generated pursuant to this contract shall comply with FEMA regulations. Our team has an outstanding track record of receiving maximum reimbursement for our clients. Our data is rarely challenged, but we always stand beside our clients in defending our data and process should the need arise.

FEMA REIMBURSEMENT SUCCESS

The table below provides a selection of our experience and success in FEMA reporting and reimbursement for clients over the past five years. To date, our team has an impeccable record of obtaining 100% reimbursement of the eligible federal cost share for both FEMA PA and FHWA-ER applications that our team has prepared and monitored on behalf of clients nationwide. *Additional reporting and reimbursement client information can be provided upon request.*

Exhibit 3-2: Experience and Success in FEMA Reporting and Reimbursements

Client Name	Value of Eligible Federal Funding Applications	% of Eligible Federal Funding Reimbursed	Length of Assistance
Boulder County, Colorado – FHWA, FEMA PA	\$53,000,000 (FEMA PA) \$40,000,000 (FHWA)	100%	14 months
Connecticut, State of – FHWA, FEMA PA	\$29,000,000 (FEMA PA) \$17,000,000 (FHWA-ER)	100%	6 months
Port of Galveston, Texas – FEMA PA	\$20,000,000	100%	40 months
South Dakota, State of – FEMA PA	\$10,000,000	100%	30 months
Vermont, State of – FEMA PA, FEMA HMGP	\$175,000,000 (FEMA PA) \$34,000,000 (HMGP)	100%	21 months
Virginia Department of Transportation – FEMA PA	\$10,000,000	100%	5 months
Virginia Department of Transportation – FHWA DDIRs, 7 Clients	\$3,500,000	100%	5 months

Section 4: Experience of the Staff

OVERVIEW OF STAFF EXPERIENCE

Tetra Tech has assembled a team of experienced emergency management, infrastructure, and grant management specialists with hands-on experience in recent disasters and emergencies as well as prevention, mitigation, preparedness, response, and recovery programs. Our disaster recovery professionals are uniquely familiar with the policies, procedures, and requirements associated with providing disaster recovery services subject to Federal Emergency Management Agency (FEMA), Federal Highway Administration (FHWA), U.S. Department of Housing and Urban Development (HUD), Natural Resources Conservation Service (NRCS), and other federal agency reimbursement programs.

Our staff members have successfully managed the removal of and reimbursement for over **69 million cubic yards (CYs) of debris** as well as the **demolition of over 5,000 uninhabitable residential and commercial structures**. Our team has monitored and obtained FEMA, FHWA, and NRCS reimbursement on **13 debris removal projects in excess of 1 million CYs of debris** and understands the significant resource commitment and effort that is necessary to manage and monitor large-scale debris removal operations for local governments.

Tetra Tech is committed to providing the County with a dedicated and consistent project management team that will expedite recovery efforts in the County by establishing a coordinated and organized approach to debris removal. Our dedicated team is available to the County 365 days per year.

The established working relationship shared by the County and Tetra Tech provides our team with an in-depth understanding of the services the County will require following a disaster event. ***Based on this understanding, Tetra Tech has assembled a project team with the qualifications and expertise necessary to support the County following a disaster.***

PROFESSIONAL CERTIFICATIONS, TRAINING, AND LICENSING

Tetra Tech is committed to providing our customers with quality technical products and services while meeting the highest level of ethical and regulatory standards and performance in our jobs. In addition, our environmental health and safety program helps our business operate in a manner that protects the health and safety of our employees, customers, business partners, community neighbors, and the environment.

Tetra Tech remains abreast of the latest guidance, issues being debated, and current best practices through participation in expert groups, attendance in training and conference sessions, and working with national experts in disaster recovery operations, emergency management, national security, information technology, public health, transportation, and critical infrastructure protection.

Our proposed team possesses many of the key certifications necessary to provide quality technical services and have attended numerous training courses related to debris operations and emergency management. Some of these include, but are not limited to:

- Occupational Safety and Health Administration (OSHA) Disaster Site Worker Course
- OSHA 10-Hour Construction Safety Certification
- OSHA 40-Hour HAZWOPER Certification
- G-202 Debris Management
- Homeland Security Exercise and Evaluation Program (HSEEP)
- IS 100: Introduction to Incident Command System
- IS-120: Introduction to Exercises
- IS-200: Basic Incident Command
- IS-547: Introduction to Continuity of Operations (COOP)
- IS-631: Public Assistance Operations I

Section 4: Experience of the Staff

- IS-632: Introduction to Debris Operations
- IS-634: Introduction to FEMA's Public Assistance Program
- IS-700: National Incident Management System
- IS-800: National Response Program
- Intermediate Workzone Traffic Control (FDOT)
- Mass Casualty Incident Manager Certification

Additionally, all collection and disposal managers and field supervisors must attend a debris monitoring training session prior to working. These training sessions are delivered by experienced trainers and provide the information required to facilitate accurate field monitoring. Tetra Tech also conducts daily "tailgate" safety sessions with field employees to alert them of potential work hazards and review safe work practices.

PROPOSED STAFF

Senior Management Team

Our senior management team will provide expert oversight and assistance at critical junctures and is prepared to assist the project management team for the duration of any disaster recovery operation. These individuals bring decades of disaster debris monitoring and reimbursement expertise.

- **Mr. Jonathan Burgiel** has 30 years of experience in solid waste and disaster recovery. His disaster-related work has included serving as principal in charge of over 30 projects, helping clients throughout the country prepare for, respond to, and recover from natural and human-caused disasters. Mr. Burgiel has provided senior management leadership to the New Jersey Department of Environmental Protection (NJDEP) (Hurricane Sandy); State of Connecticut (Hurricane Sandy); State of Louisiana (Hurricane Isaac); City of New Orleans, LA (Hurricane Katrina Residential Demolition Program); Harris County, TX (Hurricane Ike); and Miami-Dade County (Hurricanes Katrina and Wilma), to name a few.
- **Mr. Ralph Natale** has overseen response to some of the country's largest debris-generating disasters. He has served as principal in charge for more than 55 projects, managing the removal of over 15 million CYs of debris and over 500,000 hazardous trees. His experience dates back to 2005 following Hurricane Wilma, where he assisted the City of Naples and Collier County with disaster recovery operations when Hurricane Wilma struck his Naples home. He has served as a debris specialist and grant consultant for state and local governments during his nine-year career in the disaster debris industry, including for the State of Connecticut Emergency Operations Debris Task Force following Hurricane Irene and Winter Storm Alfred and the City of New Orleans, Louisiana, following Hurricane Isaac.
- **Mr. Oliver Yao** has over 10 years of disaster recovery experience and has supported response efforts to some of the largest disasters to affect the United States, including Hurricanes Katrina, Ike, and Sandy. Mr. Yao is currently responsible for the operational oversight of field projects, which includes automated debris management system (ADMS) implementation, logistics management, safety protocols, and senior management of data and reimbursement support. Mr. Yao has developed a team of seasoned data managers trained on the standard operating procedures he has developed to support project closeout and audit. Mr. Yao is a leading subject matter expert in reimbursement documentation and closeout audit support. In addition, Mr. Yao has assisted numerous local governments in Florida with FEMA appeals following Hurricanes Charley, Frances, Jeanne, and Wilma.
- **Mr. Jeff Dickerson** has more than 20 years of experience in program management and information technology and is the principal system architect of our ADMS, RecoveryTrac™. Mr. Dickerson has managed numerous large disaster response operations with over 1,000 field monitors, coordinated the operation of 24-hour data processing centers (some with nearly 100 personnel), and provided technical support for a debris management database to track over 1,000 trucks and the documentation for over 5 million CYs of debris

Section 4: Experience of the Staff

brought to clients' debris management sites. Mr. Dickerson has led deployment and logistics efforts for some of the firm's largest debris monitoring efforts.

- **Mr. John Buri** is a versatile emergency management, disaster mitigation, response and recovery, and grant management professional with 12 years of experience. Mr. Buri has provided senior management oversight on 16 major disasters declarations for over 100 clients since 2007, representing over \$1 billion in disaster-related grants. He has responded to numerous large-scale activations and engages with FEMA and state regulatory agencies and debris contractors in addition to providing FEMA Public Assistance (PA) consulting for all tasks and activities associated with each disaster recovery operation.
- **Mr. Dick Hainje** serves as a senior advisor and the former administrator of FEMA Region VII, where he led the region through 60 presidentially declared disasters. Mr. Hainje was the director of operations for Hurricane Charley and was responsible for the entire Florida operations division, which at the time was the largest deployment in FEMA's history. His extensive experience working with senior first responders as well as local, state, and federal elected officials during times of crisis has included providing full briefings to the president of the United States five times at the scene of major disaster operations. He was responsible for creating a long-term community recovery process for FEMA Region VII, which provides heavily impacted communities the opportunity to go through a FEMA-sponsored planning process after a catastrophic incident. Following Hurricane Katrina in 2005, Mr. Hainje was asked by Secretary Chertoff to serve as the deputy Principal Federal Official for the Mid-Atlantic States, where he was involved with every aspect of preparation for all of the states from Georgia to Delaware, including leading major hurricane preparation exercises in FEMA Region IV and FEMA Region III. **Mr. Hainje will serve as Senior FEMA Consultant.**

Project Management Team

In addition to our senior management team, our dedicated project management team consists of disaster recovery professionals who are uniquely familiar with the policies, procedures, and requirements associated with providing disaster recovery services. ***Tetra Tech's staff members constitute an integrated team with unparalleled skills and experience that is uniquely qualified to manage the debris monitoring operations.***

- **Anne Cabrera, Project Manager** – Ms. Cabrera has worked nationwide on numerous major post-disaster activations since Hurricane Wilma in 2005, where she has served in a variety of roles focusing on reimbursement for more than \$2 billion from the FEMA. Ms. Cabrera has worked on behalf of cities and counties throughout the United States and is a highly regarded expert in the debris management industry. As project manager for Broward County, Ms. Cabrera will be responsible for implementation of specific programs tasked by the County through purchase orders. She is also responsible for program oversight, task order preparation, forecasting, and quality assurance. She will serve as a consistent point of contact for the County's debris managers and will provide a bridge between any preparedness and post-disaster response activities.
- **Charles "Chuck" McLendon, Debris Management Advisor** – Mr. McLendon has been providing solid waste and utility/public works program management services for more than 24 years. When several of his Florida solid waste clients were severely impacted by hurricanes in 2004, Chuck was asked to lead recovery program efforts. Since that time, he has served in a senior role for every U.S. hurricane recovery effort and several additional disasters, including: Hurricanes Charley (2004), Frances (2004), Jeanne (2004), Ivan (2004), Dennis (2005), Wilma (2005), Rita (2005), Katrina (2005), Gustav (2008), Ike (2008), Irene (2010), Isaac (2012), and Sandy (2012); the Deepwater Horizon Oil Spill; and numerous ice storm and tornado events. He offers a unique expertise in both major infrastructure and debris management in times of critical need. His plans and training programs are considered industry standards. Additional experience highlights include: authored the first debris management plan approved under the standards of the FEMA Public Assistance (PA) Pilot Program, which became a model for other jurisdictions; served as Principal in Charge for more than \$2B in federal reimbursement; oversaw more than 100 million cubic yards of debris removal; and assisted more than 100 communities with program management in a post-disaster environment.

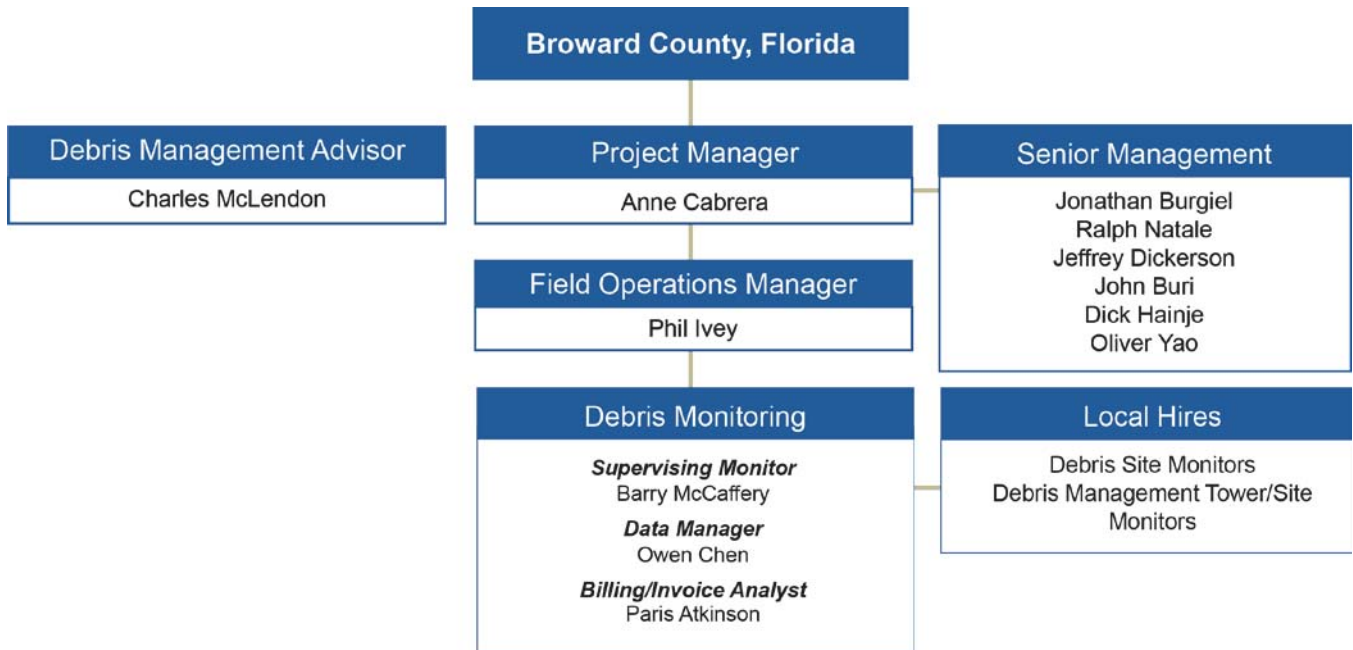
Section 4: Experience of the Staff

- **Phil Ivey, Field Operations Manager** – Mr. Ivey has worked in communities stretching from the Gulf Coast region to upstate New York providing disaster recovery operations to ensure compliance with all FEMA and other reimbursement agency regulations. He provides FEMA-related guidance during times of activation based on his extensive experience managing disaster recovery efforts.
As field operations manager, Mr. Ivey will be responsible for the implementation of Tetra Tech's work plans, dispatching field personnel, staffing, safety, field logistics, and training. He will verify eligibility, compliance, and collection and disposal operations oversight and coordinate directly with our project manager daily with progress reports and on specific issues.
- **Barry McCaffery, Supervising Monitor** – Mr. McCaffery is an experienced operations manager with Tetra Tech, Inc. His areas of expertise include training, monitor dispatch, quality assurance/quality control (QA/QC), and field management. He has an in-depth understanding of FEMA eligibility and documentation requirements. Mr. McCaffery also has an in-depth understanding of our ADMS, including field implementation, troubleshooting, and reporting.
As supervising monitor for the County, Mr. McCaffery is responsible for the quality control of debris site/tower monitors, field coordinators, and project inspectors and ensuring that all documentation that is being captured is FEMA-compliant during debris removal operations. He will verify that monitors retain their training and will respond to issues as they arrive in the field. Mr. McCaffery will be tasked with the management of locally hired additional supervisors and field monitors, project timeline, and current tasking.
- **Owen Chen, Data Manager** – Mr. Chen is an experienced quality control and data manager for Tetra Tech, Inc. His areas of expertise include geographic information systems, documentation management, quality assurance/quality control (QA/QC), database management, and reporting. He also has an in-depth understanding of FEMA eligibility, documentation requirements, and our ADMS.
As data manager, Mr. Chen will be responsible for multiple functions during debris removal activities, including reporting and QA/QC of all ADMS documentation in the field along with storing the documentation in preparation for future audits. He will validate documentation and metrics being reported as accurate and on-schedule.
- **Paris Atkinson, Billing/Invoice Analyst** – Ms. Atkinson has 9 years of experience in debris monitoring and data management, with extensive project experience in Florida. She has been deployed to a number of Florida clients, including the City of Naples, Collier County, Clay County, and Lake County.
As billing/invoice analyst, Ms. Atkinson will work with our data manager to enter, tabulate, and organize collection and disposal data into FEMA-required formats. She will develop regular updates on the quantities and types of debris collected and will provide QA/QC processes for the review and verification of field and debris contractor-provided data in support of invoices.

Section 4: Experience of the Staff

Exhibit 4-1 shows our proposed project team organizational structure. *Résumés have been included at the end of this section.*

Exhibit 4-1: Project Team Organizational Chart





Jonathan Burgiel

Vice President, Operations Manager

EXPERIENCE SUMMARY

As Vice President, Mr. Burgiel manages the business operations of all disaster recovery efforts, including preparedness planning, project staffing, logistics, grant administration and agency reimbursement support, program accounting/auditing oversight, and contract negotiations. Mr. Burgiel is dedicated to helping communities plan for and recover from disasters and provide the necessary documentation to receive the maximum allowable reimbursement from federal and state emergency management agencies.

Mr. Burgiel has 31 years of solid waste and disaster recovery experience. His disaster-related work has included serving as principal in charge of over 30 projects, helping clients throughout the country prepare for, respond to, and recover from natural and human-caused disasters.

Mr. Burgiel is intimately familiar with local, state, and federal solid waste and hazardous waste regulations, as well as U.S. Department of Housing and Urban Development (HUD), Federal Emergency Management Agency (FEMA), and Federal Highway Administration (FHWA) policies and reimbursement procedures as they relate to disaster management and recovery.

RELEVANT EXPERIENCE

Mr. Burgiel has provided senior management oversight to the following projects:

- New Jersey Department of Environmental Protection (NJDEP) – Hurricane Sandy Disaster Vessel Recovery Program
- State of Connecticut – Hurricane Sandy Disaster Debris Program
- State of Louisiana – Hurricane Isaac Disaster Debris Program Management
- City of New Orleans, Louisiana – Hurricane Katrina Residential Demolitions
- Bastrop County, Texas – Wildfires
- City of Cedar Rapids, Iowa – Severe Flooding

Senior Management (April 2012-May 2013)

State of Vermont | Federal Grant Management Services

Following Hurricane Irene, the State of Vermont faced the daunting task of maintaining critical operations. Under Mr. Burgiel's direction, within 48 hours our team deployed a team of experts to the state emergency operations center (EOC). Mr. Burgiel and our grant management team provided consulting services and managed the recovery process. Our team collected, reviewed, and offered technical assistance to applicants on their Hazard Mitigation Grant Program (HMGP) applications.

EDUCATION

University of Central Florida
Master of Business
Administration, 1989

Tufts University
Bachelor of Arts, Economics,
1984

AREA OF EXPERTISE

- Solid and Hazardous Waste Management
- Disaster Recovery Program Management
- Federal Grant Management

DISASTERS

- 4087 Hurricane Sandy
- 4084 Hurricane Isaac
- 4029 TX Wildfires
- 4024 Hurricane Irene
- 4106 CT Winter Storm
- 1791 Hurricane Ike
- 1786 Hurricane Gustav
- 1780 Hurricane Dolly
- 1679 FL Tornados
- 1606 Hurricane Rita
- 1609 Hurricane Wilma
- 1602 Hurricane Katrina
- 1595 Hurricane Dennis
- 1561 Hurricane Jeanne
- 1551 Hurricane Ivan
- 1545 Hurricane Frances
- 1539 Hurricane Charley

YEARS OF EXPERIENCE

31 years

Senior Management (September 2008-January 2009)**Harris County, Texas | Hurricane Ike Disaster Debris Program Management**

In 2008, Hurricane Ike made landfall in Texas, causing extensive damage to Harris County, the fourth largest county in the United States. Mr. Burgiel rode out the storm in Harris County's EOC and assisted with the deployment of our response team following the storm. Our team assisted with monitoring and cost reimbursement for over 2.5 million cubic yards of debris from the public right-of-way (ROW) in response to Hurricane Ike.

Senior Management (September 2004-September 2009)**City of Orlando, Florida | Disaster Debris Program Management**

Mr. Burgiel served in a senior leadership role and assisted the City of Orlando with a range of storm recovery monitoring and management activities. Mr. Burgiel was responsible for managing a full support team involved with staging operations, load inspections for storm debris cleanup performed by contract haulers, scheduling, dispatching, and logistics operations for the field inspectors assigned to storm debris cleanup. Our team's assistance enabled the City of Orlando to promptly apply for and receive reimbursement for the total cleanup cost from state and federal emergency management agencies.

Senior Management (February-April 2007)**Volusia County, Florida | Groundhog Day Tornado Disaster Recovery and Storm Debris Removal**

Our team was retained by Volusia to assist with monitoring of cleanup efforts following the Groundhog Day tornadoes that swept through Central Florida during the early morning hours, leaving 20 people dead and many others injured and without homes. Under Mr. Burgiel's direction, our team mobilized a response team to the area to help identify critical debris removal areas and initiate its ROW debris removal operation. Mr. Burgiel oversaw the management of a full support team involved with staging operations, load inspections for storm debris cleanup, and logistics operations for the field inspectors.

Senior Management (August 2005-October 2006)**Miami-Dade County, Florida | Hurricanes Katrina and Wilma Disaster Recovery and Debris Management**

After Hurricanes Katrina and Wilma struck Miami-Dade County, our team provided immediate on-site assistance and a wide range of disaster recovery management and storm debris cleanup monitoring services to help Miami-Dade County make a quick recovery. Under Mr. Burgiel's direction, our team assembled and deployed a full disaster recovery team to assist Miami-Dade County with removal of approximately 5.5 million cubic yards of debris. Mr. Burgiel oversaw the data management process and assisted Miami-Dade County with FEMA project worksheets and appeals.

Senior Management (August 2004)**Polk County, Florida | Hurricane Charley Program Management and Disposal Site Monitoring Assistance**

In the weeks following Hurricane Charley, Mr. Burgiel assisted Polk County with planning and managing disposal site monitoring activities. He was responsible for overseeing disposal site monitors, as well as spotters at Polk County's northeast, north central, and southeast landfills. Mr. Burgiel managed documentation efforts to help Polk County promptly apply for and receive reimbursement for the total cleanup cost from state and federal emergency management agencies.

Senior Management (September 2005-September 2008)**City of Pensacola, Florida | Hurricane Ivan Disaster Debris Program Management**

Mr. Burgiel provided assistance to the City of Pensacola in performing a range of storm debris removal monitoring and management activities for this \$30 million debris removal process. Mr. Burgiel supervised debris removal efforts, including permitting of debris processing sites, collection and disposal site monitoring as required by FEMA, review and approval of contractor invoices, and the preparation of project worksheets required by FEMA for federal funding.



Ralph Natale

Director, Post Disaster Programs

EXPERIENCE SUMMARY

Mr. Ralph Natale is the director of post-disaster programs for Tetra Tech, Inc. He leads the practice by developing programs, providing daily project support, and providing oversight and guidance on health and safety. Mr. Natale is an expert in Federal Emergency Management Agency-Public Assistance (FEMA-PA) Grant Program reimbursement policies and has administered nearly 70 projects.

Mr. Natale has served as a principal in charge, project manager, data manager, and operations manager in response to some of the country's largest debris-generating disasters, including Hurricanes Katrina, Ike and Sandy. This includes managing and documenting the removal of over 16 million cubic yards (CYs) of debris and 795,000 hazardous trees totaling over \$370 million dollars of reimbursed invoices.

FEATURED EXPERIENCE

Subject Matter Expert (Debris Documentation, Program Management, Grant Management)

Mr. Natale has served as a debris documentation specialist and grant consultant for state and local governments during his extensive career in disaster debris industry. This includes serving as a current member of the State of Connecticut Emergency Operations Debris Task Force, where he was activated during the recovery operations following Hurricane Irene and Winter Storm Alfred.

Mr. Natale has also served as a senior consultant and subject matter expert on the following projects:

- Lake County, California | Valley and Butte Fire (September 2015–Present)
- City of Houston, Texas | Hurricane Ike (June 2009–2016)
- Texas Department of Transportation | Federal Highway Administration-Emergency Relief Statewide Training (January–July 2010)
- Boulder County, Colorado | 2013 Floods (October 2013 –2015)

Principal in Charge/Senior Program Manager

As director of post-disaster programs for Tetra Tech, Mr. Natale has focused on developing and improving program management processes. These processes ensure the most efficient methods of managing debris removal programs to maximize federal reimbursement via the FEMA 325, and 327 guidelines. As a senior program manager, Mr. Natale ensures quality control and quality assurance of project managers' deliverables on all Tetra Tech projects, including:

YEARS OF EXPERIENCE

9 Years

AREA OF EXPERTISE

- Program Development
- Documentation Management
- Private Property Debris Removal Programs
- Debris Removal Planning
- Debris Removal Monitoring
- Packet Management
- Geospatial Reporting

GRANT EXPERIENCE

- FEMA PA
- NRCS EWP
- FHWA ER

DISASTERS

- 4240 Valley and Butte Fire
- 4245 TX Severe Storms
- 4145 CO Flooding
- 4087 Hurricane Sandy
- 4084 Hurricane Isaac
- 4029 TX Wildfires
- 4024 Hurricane Irene
- 4106 CT Snow Storm
- 3268 NY Snowstorm
- 1971 AL Tornadoes
- 1791 Hurricane Ike
- 1786 Hurricane Gustav
- 1780 Hurricane Dolly
- 1763 IA Flooding
- 1609 Hurricane Wilma
- 1602 Hurricane Katrina

TRAINING/CERTIFICATIONS

- OSHA 40-Hour Asbestos Training
- IS-632: Debris Operations
- HSEEP-Certified
- OSHA Asbestos Health and Safety
- IS-30: Mitigation Grants System
- IS-100, 200, and 700: ICS and NIMS
- IS-630: Intro to the PA Process

California | Valley and Butte Fire (October 2015–Present)

Mr. Natale helped create and implement programs for several projects after the Valley and Butte fires of 2015, which burned over 150,000 acres of forests and destroyed over 2,000 homes, with recovery costs of over \$300 million. Each program developed was unique but necessary for the community as a whole to recover. Programs included geospatial live tracking of work completed and equipment deployed; mitigation of hazardous trees from rights of ways and private property that was fully funded by CalOES and FEMA; private property debris removal packet management and database support; and management of a unique mix of environmental scientists and debris specialists to provide documentation for remediation of asbestos and other contaminants left behind, including debris quantities. These clients included Lake County Public Works, CalRecycle (AJ Diani), CalRecycle (Sukut), and PG&E.

State of New Jersey | Hurricane Sandy Disaster Recovery Operations (October 2012–January 2013)

Mr. Natale supported debris monitoring efforts for seven separate municipalities and state agencies following Hurricane Sandy. These clients including but not limited to the City of Newark, City of Sayreville, Ocean Township, and the New Jersey Parks Department.

City of New Orleans; Jefferson Parish; and St. John the Baptist Parish, LA | Hurricane Isaac Debris Monitoring Operations (September–December 2012)

Mr. Natale oversaw the debris monitoring efforts following Hurricane Isaac. During this effort, our team monitored the collection and disposal of over 670,000 CYs of debris. Mr. Natale coordinated with several local governments, including the City of New Orleans, Jefferson Parish, and St. John the Baptist Parish.

Project Management

On large debris projects, Mr. Natale will be temporarily relieved of his director duties by senior management support and focus on the management of a single project. As a result, Mr. Natale has managed some of the largest debris-generating projects in the country with great success.

City of Houston, Texas | Memorial Day Floods (May–August 2015)

Mr. Natale designed and incorporated an operational plan to manage debris removal efforts on over 6,000 road miles and 1,000,000 parcels in 60 days. 650,000 yards were collected in the 256 debris zones using City of Houston force account labor and equipment and contractor resources.

City of Houston, Texas | Hurricane Ike Disaster Debris Program Management (October 2008–July 2010)

Our response to the City of Houston following Hurricane Ike included the collection of over 5.5 million CYs of debris in 256 zones throughout the City. This also included 300 parks and open spaces. Mr. Natale also was tasked with managing the firm's largest hazardous tree removal program for the City of Houston. The program involved removing over 214,000 hazardous trees accompanied by 630,000 photographs to document eligibility. Mr. Natale worked closely with the City of Houston Solid Waste and Finance Department to reconcile and provide detailed information of over \$110 million in invoices and over \$3 million in FHWA funds. Mr. Natale also helped reconcile and submit over \$9 million in force account labor.

Mr. Natale has also served as a project manager or operations manager on the following projects:

- Winter Storm Pax | Augusta-Richmond County 2014
- Hurricane Gustav | Iberville Parish, Louisiana, 2008
- Hurricane Gustav | City of Central, Louisiana, 2008
- Hurricane Dolly | Hidalgo County, Texas, 2008
- Winter Storms | Town of North Tonawanda, New York, 2007
- Hurricane Wilma | Collier County, Florida, 2006
- Hurricane Wilma | Naples Airport, Florida, 2005
- Hurricane Wilma | City of Naples, Florida, 2005



Oliver Yao
Deputy Director, Post Disaster Programs

EXPERIENCE SUMMARY

Mr. Oliver Yao serves as the deputy director of post disaster programs for Tetra Tech, Inc. Mr. Yao has over nine years of industry experience in emergency management, response, and recovery. Mr. Yao is responsible for managing project staffing, financials, operations, and safety of the practice. In addition, Mr. Yao is also responsible for the firm’s data management and documentation operations, including project oversight, project reporting, contractor invoice reconciliation, and project closeout and audit support. Mr. Yao has supported response efforts to some of the largest disasters to affect the United States, including Hurricanes Katrina and Ike. Due to his experience, Mr. Yao also has unique knowledge and understanding of federal grant programs, including the Federal Highway Administration (FHWA) Emergency Relief (ER) Program and Federal Emergency Management Agency (FEMA) Public Assistance (PA) Program. This knowledge and experience has aided Mr. Yao in developing and implementing standard operating procedures (SOP) for documentation and data management that assist our clients during closeout and audit.

Mr. Yao also understands all aspects of our automated debris management system (ADMS), RecoveryTrac™. Due to his understanding, Mr. Yao is able to support all aspects of the ADMS handhelds, including field deployment, geospatial reporting, and future enhancements.

This knowledge and experience has aided Mr. Yao in providing local governments across the country with debris management consulting services such as the development of disaster debris management plans (DDMPs), the procurement of debris removal contractors, and the evaluation of debris management sites (DMS). Mr. Yao also has extensive experience assisting Florida communities with debris management services. He was part of the project team that helped develop the first Florida FEMA-approved DDMP for Escambia County.

RELEVANT EXPERIENCE

Senior Management and Data Oversight (May 2015–July 2015)
Hays County; Caldwell County; City of Houston, Texas | Severe Storms, Tornadoes, Straight-Line Winds, and Flooding Program Management
The jurisdictions of Hays County, Caldwell County, and the City of Houston were among the many Texas communities impacted by the torrential rainfall in May of 2015. Tetra Tech was activated by the aforementioned communities to provide program management and disaster debris monitoring services. Mr. Yao served as a senior management and data oversight manager for the Texas projects. He supported the projects by developing health and safety plans and verifying the projects met the project operations, timeline, deliverable, and budget standards for Tetra Tech.

YEARS OF EXPERIENCE

10 Years

AREA OF EXPERTISE

- FEMA Reimbursement and Audit Support
- Reimbursement Policies and Procedures
- Disaster Debris Management
- Health and Safety
- Data Management
- FEMA-Compliant Disaster Planning
- RecoveryTrac™ ADMS

GRANT EXPERIENCE

- FEMA PA
- FHWA ER

DISASTERS

- 4240 CA Valley Fire
- 4223 TX Flooding
- 4166 SC Winter Storm
- 4145 CO Flooding
- 4155 SD Winter Storm
- 4145 CO Flooding
- 4086 Hurricane Sandy
- 4080 Hurricane Isaac
- 4029 TX Wildfires
- 4024 Hurricane Irene
- 1791 Hurricane Ike
- 1786 Hurricane Gustav
- 1780 Hurricane Dolly
- 1679 Tornadoes
- 1676 MO Winter Storms
- 1665 NY Snowstorm
- 1603 Hurricane Katrina

EDUCATION

Rollins College, Crummer School of Business
Master of Business Administration, 2006

Rollins College
Bachelor of Arts, Economics, 2003

Debris Management Consultant (April 2015–June 2015)**Sarasota County, Florida | Pre-Event Disaster Planning Services**

Mr. Yao served as a debris management subject matter expert and assisted Sarasota County, Florida with the development of their scope of services for disaster debris removal services. As part of the County project team, Mr. Yao also assisted in responding to vendor questions and developing an analysis of vendor rates.

Debris Management Consultant (April 2015–September 2015)**City of Winter Springs, Florida | FEMA-Compliant Disaster Debris Management Plan**

Mr. Yao assisted the City in developing their first DDMP in 2007. As such, the City requested Mr. Yao's assistance in updating the City plan to meet current FEMA guidelines as well as compliance under the FEMA Public Assistance Alternative Procedures (PAAP) Pilot Program. Mr. Yao collaborated with the City to update their DDMP. Mr. Yao also facilitated a force account workshop to train the City's key staff on updated documentation policies and procedures as they relate to force account labor and equipment.

Debris Management Consultant (March 2015–August 2015)**City of Sarasota, Florida | FEMA-Compliant Disaster Debris Management Plan**

The City of Sarasota, Florida requested Tetra Tech's assistance to update their DDMP to meet FEMA requirements under the FEMA PAAP Pilot Program. Mr. Yao assisted the City in updating the City's plan to meet FEMA guidelines as well as industry best practices. As a result, the City's DDMP was approved by FEMA as compliant under the FEMA PAAP Pilot Program.

Senior Management and Data Oversight (May 2014–August 2014)**Blount County; Limestone County, Alabama | Severe Storms and Tornadoes Disaster Debris Program Management**

Mr. Yao provided senior management and data oversight to two counties in the State of Alabama following severe storms and tornadoes that affected the area in May 2014. Mr. Yao was responsible for overseeing data management and project deliverables. Mr. Yao also provided the project manager operational and safety guidance.

Data Manager (April 2011–Ongoing)**City of New Orleans, Louisiana | Hurricane Katrina Residential Demolition Program**

Mr. Yao served as a data manager and invoice reconciliation analyst for the City of New Orleans. In total, our team has supported the City of New Orleans in monitoring and documenting the demolition of over 1,700 damaged structures following Hurricane Katrina.

Regional Operations Manager (August 2012–December 2012)**City of New Orleans, Jefferson Parish, and St. John the Baptist Parish, Louisiana | Hurricane Isaac Debris Program Management**

Following Hurricane Isaac, Mr. Yao served as the regional operations manager, where he oversaw data management and field operations for the 3 projects and 10 sub-programs.

Emergency Management Consultant (September 2007–March 2010)**Escambia County, Florida | FEMA-Compliant Disaster Debris Management Plan**

When Mr. Yao is not supporting response and program management activities, he assists in the development of FEMA-compliant DDMP. He was part of the project team that helped develop the first Florida FEMA-approved DDMP for Escambia County.



Jeffrey Dickerson

Director of Logistics and Application Systems

EXPERIENCE SUMMARY

Mr. Jeffrey Dickerson has more than 20 years of experience in program management, with extensive experience in technical organizational management, training, and readiness exercises. He is a 20+ year military veteran with skills in leadership, training, and personnel development. As the Director of Logistics and Software Application Systems, Mr. Dickerson is responsible for the planning, deployment, and support of emergency response operations for the firm. Mr. Dickerson has managed numerous large disaster activities with over 1,000 field monitors, coordinated the operation of a round-the-clock data processing centers—some with over 90 personnel, and provided technical support for a debris management database to track the over 1,000 trucks and documentation for over 5 million cubic yards of debris brought to the client’s debris management sites (DMS).

Mr. Dickerson has led the development and support of our automated debris management system (ADMS), RecoveryTrac™. RecoveryTrac™ is a certified U.S. Army Corp of Engineers (USACE)-compliant suite of applications and mobile tools designed to simplify the collection of field documentation and increase the overall efficiency of monitoring debris removal efforts. He designed and developed the industry- leading RecoveryTrac™ GIS, which provides best in class reporting and analysis tools along with GIS web service based data feeds enabling direct integration into client GIS and emergency management systems.

RELEVANT EXPERIENCE

GIS/ADMS Applications Manager (October 2015–Present) **Lake and Calaveras Counties, CA | Wildfire Disaster Debris Private Property Debris Removal (PPDR) Program Management**

Mr. Dickerson managed the development and deployment of customized GIS-enabled ADMS technology to automate a private and commercial property hazard removal and demolition program, including environmental remediation sampling. Over 4,000 hazardous tree were removed and 1,000 structures were, demolished generating nearly 100,000 cubic yards of mixed debris. Advanced GIS mapping, document, and data analysis portals were used extensively to document California environmental requirements.

ADMS and Logistics Manager (May 2015–August 2015) **State of Texas | Severe Flooding Debris and Hazard Removal Program Management**

Mr. Dickerson managed the logistics and deployment of staff equipment and supplies as well as ADMS technology to 10 county and local clients in a multi-jurisdiction activation, including over 135 handheld devices removing 325,000 cubic yards of flood and household debris. Advanced GIS web services and data information portals were used extensively in managing the hazardous material pickups, road pass clearance, and public information applications.

YEARS OF EXPERIENCE

20 Years

AREA OF EXPERTISE

- Mobile and GIS Technology
- Resource Deployment and Tracking
- Readiness Training and Exercises
- Disaster Operations Support
- 20+ Years Military Experience

DISASTERS

- 4240 CA Wildfires
- 4223 TX Flooding
- 4166 SC Winter Storm
- 4165 GA Winter Storm
- 4145 CO Flooding
- 4115 SD Winter Storm
- 4087 Hurricane Sandy
- 4084 Hurricane Isaac
- 4029 TX Wildfires
- 4024 Hurricane Irene
- 4106 CT Winter Storm
- 1791 Hurricane Ike
- 1609 Hurricane Wilma
- 1602 Hurricane Katrina

TRAINING/CERTIFICATIONS

- FEMA IS-632, IS-700, IS-922
- MCDBA, Microsoft Certified Database Administrator
- MCSE, Microsoft Certified Network Engineer
- MCT, Microsoft Certified Trainer

EDUCATION

Thomas Edison University
Associate of Science,
Nuclear Engineering
Technology, 1997

GIS Field Application Manager (November 2014–May 2015)**City of New Orleans, LA | Hurricanes Katrina Demolition Phase II Program Management**

Mr. Dickerson developed and deployed mobile field GIS technology to automate the private property demolition survey and documentation. Custom GIS base workflow automation provided custom form generation from collected field data. Phase II included the survey and demolition of over 375 structures.

GIS/ADMS Application Manager (February 2014–June 2014)**States of Georgia and South Carolina | Winter Storm Pax Disaster Debris Program Management**

Mr. Dickerson managed the logistics and deployment of ADMS technology to seven county and local clients in a multi-state activation, including over 265 handheld devices for over 110,000 hazardous limb and tree removals and over 1,000,000 cubic yards of debris. Advanced GIS web services and data analysis portals were used extensively in managing the projects and public information applications.

ADMS Application Manager (August 2012–July 2013)**St. John the Baptist Parish, Louisiana | Hurricane Isaac Disaster Debris Program Management**

Mr. Dickerson managed the logistics and deployment of ADMS technology, including over 120 handhelds units used by the Parish to expedite the recovery process collecting over 225,000 cubic yards of debris. Detailed pickup locations and damage reports were used extensively to keep community leaders informed of progress.

Logistics and Network Operations Manager (August 2011–June 2012)**States of Virginia and North Carolina | Hurricane Irene Debris Removal Monitoring**

Following Hurricane Irene, Mr. Dickerson managed the logistics and network infrastructure to support the project work for over 15 state, county, and local clients. His responsibilities included ensuring the availability of application and communication systems to support disaster operations. Logistical responsibilities included arranging travel, accommodations, equipment, and supplies needed to support field operations.

Data Operations Manager (September 2008–September 2011)**City of Houston and Harris County, Texas | Hurricane Ike Debris Removal Monitoring**

Following Hurricane Ike, Mr. Dickerson provided IT and logistics support to the City of Houston and Harris County. His responsibilities included IT site support, system setup, end-user training, equipment rentals, and supply distribution.

Data Operations Manager (August 2005–October 2006)**Miami-Dade County, Florida | Hurricanes Katrina and Wilma Disaster Recovery and Debris Management**

Mr. Dickerson was responsible for the setup and management of a 90-person data center. Mr. Dickerson provided database technical support to successfully track the documentation for over 5 million cubic yards of debris.

Quality Control Manager (September 2004–October 2007)**Escambia County, Florida | Hurricane Ivan Comprehensive Disaster Program Management**

Mr. Dickerson provided quality control and fraud prevention support during Escambia County's debris removal operations. Mr. Dickerson performed volumetric truck certification, DMS quality control monitoring, and roving collection monitor supervision.



John Buri

Director, Post Disaster Programs

EXPERIENCE SUMMARY

Mr. Buri is a director of post disaster programs for Tetra Tech, Inc., and a member of our senior management team. His experience over the past 14 years includes emergency management planning, disaster mitigation, response, and recovery consulting on behalf of cities, counties, regional planning councils, and state governments. Mr. Buri has performed a role of senior management oversight manager on 16 major disasters declarations for over 100 clients since 2007 representing over \$1 billion in disaster related grants. Mr. Buri has a thorough understanding and practical application of industry best-practices and federal guidance governing such efforts including the Stafford Act, Federal Emergency Management Agency (FEMA) Public Assistance (PA), Hazard Mitigation Grant Program (HMGP) and disaster funding strategies for local and state governments. Mr. Buri is also part of our Incident Management Team (IMT) dedicated to responding to our stand-by clients as part of the team deployed to the impacted region prior to or immediately after a disaster, including being present in the client's emergency operations center (EOC) within 24-48 hours after each incident.

RELEVANT EXPERIENCE

Subject Matter Expert/Senior Management Oversight (October 2013-December 2014)

Boulder County, Colorado | Full Services Disaster Grant Management Consulting

Mr. Buri is currently providing subject matter expertise and senior management to Boulder County, Colorado, following the devastating floods that occurred in September 2013. Mr. Buri is providing PA consulting, managing the County's HMGP, and assisting the County with Community Development Block Grant (CDBG) Disaster Recovery (DR) application support. In addition, he is also providing overall management on all debris recovery operational issues for the County.

Senior Management Oversight (February 2014-May 2014)

Counties of Barnwell; Colleton; Dorchester; Hampton; Sumter, South Carolina; City of Sumter, South Carolina; City of Augusta, Georgia | Winter Storm Pax Disaster Debris Program Management

Following the destructive effects of Winter Storm Pax in February 2014, our team was tasked with providing disaster debris program management to numerous communities in the States of South Carolina and Georgia. Mr. Buri was instrumental in the immediate deployment of our team and oversaw all disaster recovery operations, including leaner and hanger removal. In addition, Mr. Buri worked with each community to ensure that all eligible reimbursement was captured and documented.

EDUCATION

Texas State University
Master of Arts, Public
Administration, 2002

The University of Texas
Bachelor of Arts, Government, 2000

AREA OF EXPERTISE

- Damage Assessment
- Policy and Procurement
- Debris Management
- Disaster Housing
- Grant Application Development
- Grant Accounting Systems
- Audit Process
- Closeout Procedures

GRANT EXPERIENCE

- FHWA-ER Program
- HUD CDBG-DR
- FEMA PA
- FEMA HMGP

DISASTERS

- 4166 SC Winter Storm
- 4165 GA Winter Storm
- 4145 Colorado Floods
- 4087 Hurricane Sandy
- 4084 Hurricane Isaac
- 4029 TX Wildfires
- 4024 Hurricane Irene
- 4022 Tropical Storm Irene
- 4106 CT Winter Storm
- 4064 OK Tornado
- 1969 NC Tornados
- 1931 Hurricane Alex
- 1909 TN Floods
- 1791 Hurricane Ike
- 1786 Hurricane Gustav
- 1780 Hurricane Dolly
- 1735 OK Ice Storm
- 1606 Hurricane Rita
- 1551 Hurricane Ivan
- 1545 Hurricane Frances

YEARS OF EXPERIENCE

14 years

Subject Matter Expert/Senior Management Oversight (February 2013-January 2014)

New Jersey Department of Environmental Protection | Hurricane Sandy Waterway Debris Removal Project

Mr. Buri provided subject matter expertise in the development and implementation of numerous protocols and procedures to effectively manage NJDEP's waterways debris removal program. Mr. Buri oversaw the implementation of our automated debris management system (ADMS) technology, which increased NJDEP's visibility to the day-to-day operations and provided real-time reporting of debris quantities. Due to the excellent senior and project management provided by our team, NJDEP then tasked our team with monitoring the sediment removal process in the northern and southern region.

Senior Management Oversight (September 2012-December 2012)

City of New Orleans, Jefferson Parish, St. John the Baptist Parish, Louisiana | Hurricane Isaac Disaster Debris Program Management

Mr. Buri provided senior management oversight and operational and client support for the debris monitoring efforts following Hurricane Isaac to numerous communities in the State of Louisiana following Hurricane Isaac. During this effort, our team monitored the collection and disposal of over 670,000 cubic yards of debris.

Senior Management Oversight (October 2011-April 2012)

State of Connecticut | Winter Storm Alfred Disaster Debris Program Management

Mr. Buri provided senior management oversight to the State of Connecticut as a member of the Interagency Debris Management Task Force (IDMTF) at the state emergency operations center (EOC) for Winter Storm Alfred. He worked closely every day with members from Connecticut Division of Emergency Management and Homeland Security, the Connecticut National Guard, Department of Energy and Environmental Protection, and Connecticut Department of Transportation. This involved advising the State of Connecticut on all debris-related issues during response and recovery from the storms and providing operational and client support. In addition, Mr. Buri assisted in the management of 12 individual local governments and 45 communities to collect more than 1.5 million cubic yards of vegetative debris and remove over 100,000 hazardous trees.

Senior Management Oversight/Client Liaison (September 2011–August 2013)

Bastrop County, Texas | Wildfire Disaster Program Management

Mr. Buri provided senior management oversight to Bastrop County's disaster recovery operations following the most devastating wildfires in Texas history. With 1,700 structures destroyed, Mr. Buri was vital in obtaining expedited project worksheets, coordinating directly with FEMA to develop disaster-specific documentation protocols, and orchestrating interlocal coordination with county municipalities, electrical co-ops, and regulatory agencies.

Senior Management Oversight (August-December 2011)

State of North Carolina | Hurricane Irene Disaster Debris Program Management

Mr. Buri provided senior management oversight to the State of North Carolina following the impact of Hurricane Irene and was instrumental in all disaster recovery operations. Mr. Buri oversaw a variety of projects for all 16 of our North Carolina clients, including right-of-way debris removal and disposal, removal of dangerous hanging limbs and leaning trees, residential debris disposal, FHWA debris segregation, and FEMA reimbursement.

Regional Program Manager (September 2008–September 2010)

State of Texas – 78 Total Clients | Hurricane Ike Comprehensive Debris Management Operations and FEMA PA Administration and Management

Following Hurricane Ike, Mr. Buri served as regional program manager and provided senior management for approximately 78 clients in the state of Texas. Mr. Buri was instrumental in the immediate mobilization of our team and provided a full range of services and client support to each client. Mr. Buri also provided management and guidance to each client to ensure they received FEMA reimbursement.



Richard Hainje

Senior Advisor, Post Disaster Programs

EXPERIENCE SUMMARY

Mr. Hainje has spent his entire career in emergency management and has been involved in the deployment of almost every disaster over the last 30 years, including hurricanes, tornados, snow storms, and floods. He maintains strong relationships with state and federal partners, serves in a very critical role where he is involved in every stage of the disaster recovery process with every client, and has a deep passion for working with and assisting government entities with Federal Emergency Management Agency (FEMA) guidelines and federal funding. As a member of Tetra Tech's Incident Management Team (IMT), Mr. Hainje is dedicated to responding to our stand-by clients as part of the team deployed to the impacted region and focuses on providing senior management oversight to clients prior to or immediately after a disaster. His extensive experience working with senior first responders as well as local, state, and federal elected officials during times of crisis has included providing full briefings to the president of the United States five times at the scene of major disaster operations.

As former regional administrator of FEMA Region VII for eight years, Mr. Hainje was responsible for the preparedness, response, recovery, and mitigation of all disasters in Kansas, Iowa, Nebraska, and Missouri, and led the region through 60 presidentially declared disasters. Over the last 10 years, Mr. Hainje has supervised major emergency operations in Connecticut, Florida, Mississippi, Missouri, Iowa, Nebraska, and Kansas.

Mr. Hainje was the director of operations for Hurricane Charley, which struck Florida in 2004. He was responsible for the entire Florida operations division, which at the time was the largest deployment in FEMA's history. Following the four hurricanes that struck Florida, Mr. Hainje served as director of emergency housing, which was the largest emergency housing operation in more than a decade.

Due to the devastating effects of Hurricane Katrina in 2005, Secretary Chertoff chose principal federal official (PFO) teams for the 2006 hurricane season. Mr. Hainje was asked by Secretary Chertoff to serve as the deputy Principal Federal Official for the Mid-Atlantic States. Mr. Hainje was involved with every aspect of preparation for all of the states from Georgia to Delaware. Mr. Hainje also led the response, recovery, and mitigation for the historic 2008 Midwest flooding event. At the peak, Mr. Hainje was in charge of over 1,000 FEMA employees deployed to this event, briefed the Midwest governors and the president of the United States, as well as many U.S. senators and congresspersons.

Mr. Hainje is an essential member of Tetra Tech's senior management team and is actively involved in the interaction with every client following every

EDUCATION

Mid American Nazarene University
Bachelor of Arts, Management and Human Relations, 2008

Killian College
Associate of Science, Fire Science, 1994

AREA OF EXPERTISE

- Policy/Government Affairs
- Local, State, and Federal Disaster Response and Recovery Funding
- Post-Disaster Emergency Housing
- Grant Writing, Administration, and Implementation
- Regional Response
- Commodity Distribution
- Homeland Security
- Emergency Management and Response

GRANT EXPERIENCE

- FEMA Public Assistance
- Hazard Mitigation Grant Program
- Community Development Block Grant Program

TRAINING/CERTIFICATIONS

- Incident Command System
- Extensive Chief Fire Officer National Fire Academy Course Work
- Former Emergency Medical Technician

YEARS OF EXPERIENCE

30 years

activation, including being present in Joint Field Office (JFO) and engaging with officers to understand the nature of every disaster.

RELEVANT EXPERIENCE

Financial Recovery Services Projects

Senior Technical Advisor (October 2013-December 2014)

Boulder County, Colorado | Full Services Disaster Grant Management Consulting

Mr. Hainje is currently serving as senior technical advisor to Boulder County, Colorado, following the devastating floods that occurred in September 2013.

Principal in Charge (August 2010 – March 2013)

State of South Dakota | FEMA PA Closeout Services

As principal in charge, Mr. Hainje oversaw the PA closeout contract, which involved closing out over 200 project worksheets related to public utilities.

Principal in Charge (July 2010 – September 2013)

Port of Galveston, Texas | Federal Grant Administration

Mr. Hainje is assisting the Port of Galveston on a number of reimbursement-related issues. With Mr. Hainje's assistance, the Port of Galveston has received more than \$40 million in additional federal funding associated with permanent repairs to several of the port's piers following damage from Hurricane Ike in 2008.

Senior Advisor (January – September 2011)

Texas Department of Transportation | Comprehensive FEMA PA and Federal Highway Administration

Mr. Hainje worked with the Texas Department of Transportation (TxDOT) and FEMA to resolve a number of outstanding projects, allowing TxDOT to receive millions in eligible funding.

Senior Management Oversight (February 2013-January 2014)

New Jersey Department of Environmental Protection | Hurricane Sandy Waterway Debris Removal Project

Mr. Hainje was a member of our staff's IMT for the New Jersey Department of Environmental Protection following Hurricane Sandy, where he met with FEMA officials and state coordinating officers.

Senior Debris Consultant and Advisor (October 2012-December 2012)

State of Connecticut | Hurricanes Irene and Sandy, Winter Storm Alfred Disaster Debris Program Management

Mr. Hainje has assisted the State of Connecticut with debris management as a member of the Interagency Debris Management Task Force (IDMTF) at the state emergency operations center (EOC) for Hurricane Irene, Winter Storm Alfred, and Hurricane Sandy. He worked closely every day with members from Connecticut Division of Emergency Management and Homeland Security, the Connecticut National Guard, Department of Energy and Environmental Protection, and Connecticut Department of Transportation. This involved advising the State of Connecticut on all debris-related issues during response and recovery from the storms. Mr. Hainje was in the EOC working with the IDMTF prior to landfall for Hurricane Irene and Hurricane Sandy.

Senior Debris Consultant and Advisor (October 2012-December 2012)

Multiple Cities and Towns in Connecticut, including the City of Hartford | Hurricanes Irene and Sandy, Winter Storm Alfred Disaster Debris Program Management

After Hurricane Irene, Hurricane Sandy, and Winter Storm Alfred, Mr. Hainje worked directly with Hartford, West Hartford, Manchester, Enfield, Danbury, Greenwich, Fairfield, New London, and several more communities on their debris management activities. Mr. Hainje traveled the state extensively during these operations, working with and advising public officials in more than 25 communities.



Anne Cabrera Project Manager

EXPERIENCE SUMMARY

Ms. Cabrera has worked nation-wide on numerous major post-disaster activations since Hurricane Wilma in 2005, where she has served in a variety of roles focusing on reimbursement for more than \$2 billion from the Federal Emergency Management Agency (FEMA). Ms. Cabrera has worked on behalf of cities and counties throughout the United States and is a highly regarded expert in the debris management industry.

In addition to her work with post disaster recovery operations, Ms. Cabrera has worked with a number of clients on their longer-term financial recovery, including serving as a technical resource to clients during implementation of the FEMA Public Assistance (PA) program and other federal grant programs and assisting in the preparation, development, and review of FEMA PA project worksheets (PWs) for disaster related activities, state appeals, and close out processes. Ms. Cabrera has also developed valuable partnerships with various clients helping them to plan for and prepare for potential disasters. This work has included providing training sessions and participating in exercises with communities across the Country including helping many cities and counties to create or update disaster debris management plans and develop ongoing staff training programs.

As project manager for Broward, Ms. Cabrera will be responsible for implementation of specific programs tasked by the County through purchase orders. She is also responsible for program oversight, task order preparation, forecasting, and quality assurance. She will also serve as a consistent point of contact for the County’s debris managers and will provide a bridge between any preparedness and post-disaster response activities.

FEATURED EXPERIENCE

Debris Subject Matter Expert (June 2008—Present)

Broward County, Florida | County-Wide Debris Site Assessments Study

Since 2008, Ms. Cabrera has provided consultation and debris subject matter expertise to Broward County in preparation for a potential FEMA declared disaster. Ms. Cabrera has worked closely with many members of various County departments to ensure information has been gathered based on past experiences and improvements made to proactively prepare for managing the execution of a Stafford Act PA Grant Program. In addition to providing management on several County planning projects, Ms. Cabrera has worked with the County’s Solid Waste and Recycling accounting department to update their internal database systems to support account reconciliations necessary to control and report on County PW accounts, as well as, the disposal accounts for the 31 separate applicant municipalities that may use the County solid waste disposal sites in a declared disaster event.

YEARS OF EXPERIENCE

10 years

AREA OF EXPERTISE

- FEMA Compliance Monitoring
- FEMA Reimbursement
- Disaster Debris Management
- Reimbursement Policies and Procedures
- Data Management
- Invoice Reconciliation
- Database Systems
- Project Staffing
- Multiagency Coordination

GRANT EXPERIENCE

- FEMA PA

DISASTERS

- 4241 SC Flooding
- 4240 CA Wildfires
- 4223 TX Severe Storms
- 4165 GA Winter Storm
- 4145 CO Flooding
- 4087 Hurricane Sandy
- 4084 Hurricane Isaac
- 4029 TX Wildfires
- 4024 Hurricane Irene
- 4106 CT Winter Storm
- 3268 NY Snowstorm
- 1791 Hurricane Ike
- 1786 Hurricane Gustav
- 1676 MO Winter Storms
- 1679 FL Tornados
- 1609 Hurricane Wilma
- 1602 Hurricane Katrina

EDUCATION

Florida Atlantic University
Master of Business
Administration, International
Business, 2011

Bachelor of Arts, Liberal
Arts, 1999

In 2010, Ms. Cabrera assisted with debris forecasting based on scenarios ranging from a tropical storm through a category 5 hurricane and determining anticipated cubic yards of debris and debris site requirements based on those numbers. Six regional meetings with a total of 31 municipalities overall were facilitated to create buy-in in multi-jurisdictional coordination for use of debris management sites. The team identified potential debris management sites in six regions, narrowing the list to 30 sites total (the top five most promising in each region); the sites were evaluated by site assessment and ranked for use. The team created lease documents for the County to use when leasing property from a private land owner for use as a debris management site. A report on options for final disposal capacity including in county and out of county landfills and their capacity to accept debris as well as potential recycling options was provided in addition to a final report study and an all-region meeting to present the findings.

Debris Program Manager (January 2016 – February 2016)

Collier County, Florida | 2016 Straight-Line Winds

In January 2016, Collier County was forced to manage debris after a straight-line windstorm left a swath of damaged and downed trees across the County. After a long-history helping Collier County to plan for such disasters including annual trainings and a 2015 update of their Disaster debris Management Plan, Ms. Cabrera assisted with the rapid ramp-up to monitor disposal of debris from the impacted areas. Tetra Tech worked for the County for a three-week period and monitored and documented the contractor's removal of over 44,000 cubic yards of vegetative debris during this brief time-frame.

QA/QC Manager (November 2007–November 2013)

City of New Orleans, Louisiana | Hurricanes Katrina, Gustav, and Isaac Disaster Recovery Services

Ms. Cabrera has supported the City of New Orleans following Hurricanes Katrina (2005), Gustav (2008) and Isaac (2012) as part of the data management and invoice reconciliation team for the City's numerous debris removal programs. She has worked closely with parish, debris contractor, and FEMA staff to provide regular updates on the quantities and types of debris collected to the City of New Orleans.

Data Manager (August 2012–March 2013)

St. John the Baptist Parish, Louisiana | Hurricane Isaac Disaster Recovery Services

Following Hurricane Isaac, Ms. Cabrera was part of the data management team for the Parish's debris removal project. She worked closely with parish, debris contractor, and FEMA staff to provide regular updates on the quantities and types of debris collected.

Public Assistance Grant Administrator (January 2010–September 2012)

Port of Galveston, Texas | Hurricane Ike Financial Recovery Services

Ms. Cabrera assisted with the PA Grant Administration for the Port of Galveston, Texas following Hurricane Ike. Ms. Cabrera's tasks included reviewing and reconciling PWs for State and FEMA close-out for Hurricane Ike. In the course of the initial review, damages not captured in the initial PWs were identified including storm induced erosion damages that did not become evident until many months after the initial disaster. Ms. Cabrera was involved in the process of writing new PWs for the previously undocumented damage which included the formulation, review and management of damage descriptions, bid specifications, scope of work, contractors specifications, force account labor and equipment, logistics of project commencement and completion, invoicing, tracking of funds, site visits and photos, State and FEMA communication and monitoring the obligation and close-out process.

Invoice Reconciliation Analyst (October 2005—August 2012)

City of Hollywood, Florida | Hurricanes Katrina and Wilma Financial Recovery Services

Ms. Cabrera worked with the City of Hollywood as an invoice reconciliation analyst immediately following Hurricanes Katrina and Wilma when they impacted the area in 2005. She oversaw the data management process at an established local data center and worked with the City, their multiple debris contractors and FEMA staff to reconcile the invoices for debris removal work which provided the back-up for the FEMA PWs. Ms. Cabrera has

remained a consultant to City of Hollywood staff working with their accounting and finance department to respond to FEMA requests for additional information and as audit support for both FEMA and OIG audits.

Data Reconciliation Management (October 2005—February 2012)

City of Fort Lauderdale, Florida | Hurricane Wilma Grant Management Recovery Services

Immediately following Hurricane Wilma in 2005, Ms. Cabrera supported data management activities associated with the debris collection effort in the City of Fort Lauderdale, FL. After the initial recovery efforts, Ms. Cabrera continued to work with the City of Fort Lauderdale for the next six years through multiple State and FEMA audits. Based on lessons learned, she helped the City of Fort Lauderdale to develop after action reports and a list of best practices should they be impacted by another disaster in the future. Ms. Cabrera worked closely with city staff, the assigned State PA Coordinator and the FEMA review team to help gather the necessary documentation and close out projects from the 2005 storm season.

Data Manager (October 2005—September 2008)

City of Plantation, Florida | Hurricane Wilma Disaster Recovery Operations

Ms. Cabrera performed data management activities for the City of Plantation, FL following Hurricane Wilma. This included designing and implementing quality assurance and quality control processes for the review and verification of field and debris contractor-provided data in support of invoices to ensure accurate invoice reconciliation. Ms. Cabrera worked closely with the City Grant Administrator to support the execution of the Stafford Act PA Grant Program and participated in the project close-out along with the Florida State PA Coordinator and FEMA, where she represented the interests of the City of Plantation.

Hurricane Ike, Hurricane Irene, and Winter Storm Alfred Disaster Recovery Assistance

Ms. Cabrera was heavily involved in our team's disaster recovery efforts during the 2008 and 2011 hurricane seasons, as well as projects related to the Texas severe drought and wildfires where she primarily provided data management activities associated with the debris collection effort. Listed below are a number of clients Ms. Cabrera supported:

- Alamo, City of, Texas
- Alvin, City of, Texas
- Angleton, City of, Texas
- Bastrop County, Texas
- Beaufort, City of, North Carolina
- Bellaire, City of, Texas
- Bristol, City of, Connecticut
- Cameron County, Texas
- Central, City of, Louisiana
- Connecticut Department of Transportation
- Connecticut, State of
- Dare County, North Carolina
- Duck, Town of, North Carolina
- Fort Bend County, Texas
- Galveston, City of, Texas
- Galveston County, Texas
- Hardin County, Texas
- Harris County, Texas
- Hartford, City of, Connecticut
- Henrico County, Virginia
- Hidalgo County, Texas
- Houston, City of, Texas
- Iberville Parish, Louisiana
- Jamaica Beach, City of, Texas
- Kill Devil Hills, Town of, North Carolina
- Kitty Hawk, Town of, North Carolina
- La Marque, City of, Texas
- Lenoir County, North Carolina
- Manchester, City of, Connecticut
- Manteo, Town of, North Carolina
- Martin County, North Carolina
- Nags Head, Town of, North Carolina
- Onslow County, North Carolina
- Pasadena, City of, Texas
- Richlands, Town of, North Carolina
- Seabrook, City of, Texas
- Southern Shores, Town of, North Carolina
- South Windsor, City of, Connecticut
- Sugarland, City of, Texas
- Virginia Department of Transportation
- Weslaco, City of, Texas
- West University Place, City of, Texas



Charles “Chuck” McLendon Debris Management Advisor

EXPERIENCE SUMMARY

Chuck McLendon has been providing solid waste and utility/public works program management services for more than 24 years. When several of his Florida solid waste clients were severely impacted by hurricanes in 2004, Chuck was asked to lead recovery program efforts. Since that time, he has served in a senior role for every U.S. hurricane recovery effort and several additional disasters, including: Hurricanes Charley (2004), Frances (2004), Jeanne (2004), Ivan (2004), Dennis (2005), Wilma (2005), Rita (2005), Katrina (2005), Gustav (2008), Ike (2008), Irene (2010), Isaac (2012), and Sandy (2012); the Deepwater Horizon Oil Spill; and numerous ice storm and tornado events. He offers a unique expertise in both major infrastructure and debris management in times of critical need. His plans and training programs are considered industry standards. Additional experience highlights include: authored the first debris management plan approved under the standards of the FEMA Public Assistance (PA) Pilot Program, which became a model for other jurisdictions; served as Principal in Charge for more than \$2B in federal reimbursement; oversaw more than 100 million cubic yards of debris removal; and assisted more than 100 communities with program management in a post-disaster environment.

RELEVANT EXPERIENCE

Principal (2016)

Wake County, NC | Debris Management Plan Update and Contractor Procurement

Chuck assists Wake County, NC (Raleigh), with updating the county’s debris management plan and supporting debris contractor procurement work.

Principal (2015)

Chester County, PA | Debris Management Plan Update and Contractor Procurement

Principal. Chuck assisted Chester County while preparing the county’s initial debris management plan. In addition, he is currently assisting the county with preparing a request for proposal document to procure debris management contractors. Finally, Chuck will be assisting the county with a series of executive seminars and tabletop exercises to further prepare the county for a major debris generating event.

Program Manager (2015)

Clarendon County, SC | Severe Flood Recovery

Chuck assisted Clarendon County with flood recovery efforts following devastating flooding in October 2015. He assisted the county with damage assessment and determined force account labor and materials used for the flood recovery effort. Chuck also wrote the procurement document that was

YEARS OF EXPERIENCE

24 years

AREA OF EXPERTISE

- Disaster Debris Monitoring
- Solid Waste Management
- Program Management
- Federal Grant Management
- Debris Management Planning

GRANT EXPERIENCE

- FEMA PA
- FHWA ER
- HUD CDBG
- NRCS EWP

DISASTERS

- More than 30 Major Disaster Events including:
- 2004/2005 Florida Hurricane Season
- Deepwater Horizon Oil Spills
- Numerous floods, tornados, and ice storms

TRAINING/CERTIFICATIONS

- FEMA: IS-634 - Public Assistance Program
- IS-632.a – Debris Operations
- IS-559 - Local Damage Assessment

EDUCATION

BS, Marketing/Marketing Management, Florida State University, 1991

used to retain multiple contractors to repair catastrophic damages to the county's roadway system.

Principal in Charge (2013)

Escambia County, FL | Severe Flood Recovery Program Management

Chuck served as the county's program manager for flood response efforts following the April 29, 2013, flooding event. He assembled a team to assist Escambia County with damage assessments and emergency repairs, design and construction procurement efforts, as well as FEMA-PA and FHWA-ER reimbursement efforts. After the county's primary debris contractor pulled out of the county, Chuck assisted the county in determining a secondary contractor to respond and mobilize in less than 24 hours.

Principal in Charge (2005)

Plantation, FL | Hurricanes Katrina and Wilma

Chuck served as the Principal for debris monitoring efforts to the City of Plantation following Hurricanes Katrina and Wilma in 2005. He was responsible for installing a debris monitoring and data management team to document the quantities of eligible debris removed from City streets. Chuck's team worked in close coordination with Broward County staff and consultants in order to reconcile data from Broward County debris management sites.

Principal in Charge/Project Manager (2006)

Seminole County, FL | Debris Contractor Procurement

Chuck helped Seminole County prepare a request for proposal document to solicit standby disaster debris management contractors.

Principal/Project Manager (2015)

Horry County Solid Waste Authority, SC | Disaster Debris Management Plan

Chuck updated Horry County's disaster debris management plan to comply with the most current requirements of the FEMA-PA Pilot Program. The plan was reviewed and approved by FEMA Region IV and the South Carolina Emergency Management Division with no comments.

Principal in Charge/Project Manager (2011)

Jefferson Parish, LA | Hurricane Isaac Debris Management

Chuck was on the ground in southern Louisiana when Hurricane Isaac made landfall in Jefferson Parish. He assisted the county with the overall coordination of the debris management mission, including oversight of right-of-way debris removal contractors, a street sweeping contractor, a tree contractor, and two residential drop-off sites.

Project Manager (2010)

Dare County, NC | Hurricane Irene Debris Management

Project Manager. Chuck managed the debris monitoring efforts to Dare County and six of the municipalities in the county following Hurricane Irene. He assisted the county in establishing the debris removal effort and coordination and reimbursement efforts with the State of North Carolina.

Principal in Charge (2010)

Virginia Department of Transportation- Hampton Roads District | Hurricane Irene Disaster Program Management

Chuck served as Principal to VDOT following Hurricane Irene. Services included right-of-way debris monitoring and hazardous tree removal along all VDOT maintained roadways. Chuck's team also assisted VDOT with reimbursement efforts under both the FEMA-PA and FHWA-ER programs.



Phil Ivey
Field Operations Manager

EXPERIENCE SUMMARY

Mr. Phil Ivey has overseen recovery operations in response to some of the country's largest debris-generating disasters, including Hurricanes Sandy, Irene, Ike, Katrina, Wilma, Dennis, and Ivan; the 2013 Boulder County, Colorado floods; the 2006 ice storms in Buffalo, New York; and the Groundhog Day tornadoes that swept through Central Florida in February 2007. He has worked in communities stretching from the Gulf Coast region to upstate New York providing disaster recovery operations to ensure compliance with all Federal Emergency Management Agency (FEMA) and other reimbursement agency regulations. He provides FEMA-related guidance during times of activation based on his extensive experience managing disaster recovery efforts. This includes debris collection and disposal and developing project worksheets to accurately record the data to ensure proper reimbursement, payment reconciliation, and guidance on adhering to local, state, and federal regulations and policies governing debris collection and disposal.

As field operations manager, Mr. Ivey will be responsible for the implementation of Tetra Tech's work plans, dispatching field personnel, staffing, safety, field logistics, and training. He will verify eligibility, compliance, and collection and disposal operations oversight and coordinate directly with our project manager daily with progress reports and on specific issues.

FEATURED EXPERIENCE

Deputy Project Manager (May 2015–August 2015)
City of Houston, Texas | Severe Storms and Flooding Disaster Debris Program Management

Mr. Ivey was deployed to the City of Houston following severe storms and flooding that resulted in concentrated volumes of disaster debris in the City (300,000 CYs). Mr. Ivey's responsibilities included program execution and management of over 200 zones within the fourth largest city in the country. He was responsible for recruiting and training of 120 monitors, health and safety program implementation, reimbursement documentation, and overall oversight of the program. Mr. Ivey worked closely with grant managers, FEMA field specialists, and the State of Texas to document and track operations as well as deliver expedient and accurate reporting to key stakeholders.

Deputy Project Manager (March 2014–July 2014)
Boulder County, Colorado | Flooding Disaster Debris Program Management

Mr. Ivey served as deputy project manager for Boulder County, Colorado, following the September 2013 flooding. As deputy project manager, he oversaw the recovery of nearly 10,000 tons of debris. Also unique to this project was the fact that Tetra Tech was contracted by the County to take

YEARS OF EXPERIENCE

10 Years

AREA OF EXPERTISE

- Disaster Debris Management
- Right-of-Way Debris Removal
- Disposal Operations
- Private Property Programs
- Hazardous Tree Removal
- FEMA PA Category A documentation and eligibility requirements

DISASTERS

- 4245 Texas severe storms
- 4155 SD Winter Storm
- 4145 Colorado Floods
- 4086 Hurricane Sandy
- 4084 Hurricane Isaac
- 4024 Hurricane Irene
- 1791 Hurricane Ike
- 1780 Hurricane Dolly
- 1735 OK Winter Storms
- 1679 FL Tornadoes
- 1609 Hurricane Wilma
- 1602 Hurricane Katrina
- 1595 Hurricane Dennis
- 1551 Hurricane Ivan

TRAINING/CERTIFICATIONS

- OSHA 510: 40-Hour Construction Safety
- OSHA 40-Hour HAZWOPER
- OSHA 7600 Disaster Site Worker
- OSHA 10-Hour Construction Safety
- NIMS IS-00700

over monitoring operations from another firm mid-project. Mr. Ivey also assisted in identifying eligible debris in the streams for reimbursement and administrating the program management for the County's demolition project, including filling out all paperwork.

Operations Manager (February 2013–January 2014)

New Jersey Department of Environmental Protection | Hurricane Sandy Waterways Debris Removal Program Management

Mr. Ivey served as operations manager for the New Jersey Department of Environmental Protection (NJDEP) following Hurricane Sandy, where he managed the NJDEP's vessel recovery operations throughout the state as well as water debris removal for the northern part of the state.

Deputy Project Manager (September 2008–September 2011)

City of Houston, Texas | Hurricane Ike Disaster Debris Program Management

Mr. Ivey was instrumental in helping the firm to quickly establish debris removal protocols, assign and direct debris haulers to zones, and keep city residents informed of the progress of the debris effort. The debris removal operation was a monumental effort involving approximately 1,000 personnel and the daily removal of 250,000 cubic yards of debris from the city.

Project Manager (July–November 2008)

Hidalgo County, Texas | Hurricane Dolly Debris and Grant Management Services

Mr. Ivey oversaw all project-related activities for Hidalgo County and its 16 cities and maintained a high level of communication between the various county, city, and FEMA officials. Through those relationships and diligent oversight, Mr. Ivey was able to add the removal of hazardous trees, branches, and stumps from many of the Hidalgo County parks. Mr. Ivey was also able to help get most of the vegetative debris recycled rather than burned or taken to a local landfill.

Data Manager and Collection and Disposal Supervisor (September 2005–September 2008)

City of Pensacola, Florida | Hurricane Ivan Disaster Debris Program Management

Following Hurricane Ivan, Mr. Ivey oversaw disaster recovery efforts for the City of Pensacola, including the proper collection and disposal of over 1.3 million cubic yards of debris. He was responsible for the database management of load tickets, approval of debris contractor invoices, and assisting the City of Pensacola with preparing project worksheets for FEMA reimbursement.

Project Manager (February 2007–April 2007)

Volusia County, Florida | Groundhog Day Tornado Disaster Recovery and Storm Debris Removal

Mr. Ivey was responsible for overseeing the teams monitoring the collection and disposal of approximately 135,000 cubic yards of debris. Mr. Ivey also coordinated the data management process to ensure maximum reimbursement from FEMA.

Project Manager (March 2006–May 2006)

Collier County, Florida | Hurricane Wilma Disaster Debris Program Management

Mr. Ivey and other key members of the project team provided Collier County with daily progress reports, including maps showing beginning global positioning system (GPS) coordinates with pre-photos, daily progress, ending GPS coordinates, and post-event photos. The daily reports included documentation supporting daily debris removal quantities and documentation of the proper disposal of that debris. These reports were discussed at a weekly meeting with representatives from the Natural Resources Conservation Service (NRCS) and Collier County. Mr. Ivey also instructed team members on how to accurately measure work completed in order to ensure maximum reimbursement.



Barry McCaffery Supervising Monitor

EXPERIENCE SUMMARY

Mr. Barry McCaffery is an experienced operations manager with Tetra Tech, Inc. His areas of expertise include training, monitor dispatch, quality assurance/quality control (QA/QC), and field management. He has an in-depth understanding of Federal Emergency Management Agency (FEMA) eligibility and documentation requirements. Mr. McCaffery also has an in-depth understanding of our automated debris management system (ADMS), including field implementation, troubleshooting, and reporting.

Mr. McCaffery's experience assisting the City of New Orleans with program management and demolition monitoring services has made him a leading expert in FEMA public assistance eligible demolitions. He has a keen understanding of FEMA requirements to perform private property debris removal and demolition activities. Additionally, he is experienced in capturing and managing the supporting documentation needed for federal reimbursement.

As supervising monitor for the County, Mr. McCaffery is responsible for the quality control of debris site/tower monitors, field coordinators, and project inspectors and ensuring that all documentation that is being captured is FEMA-compliant during debris removal operations. He will verify that monitors retain their training and will respond to issues as they arrive in the field. Mr. McCaffery will be tasked with the management of locally hired additional supervisors and field monitors, project timeline, and current tasking.

FEATURED EXPERIENCE

Quality Control Manager (May 2015–Current)

City of New Orleans, Louisiana | Hurricane Katrina Demolition Program

Mr. McCaffery is currently serving as a quality control manager for the City of New Orleans's demolition program. His responsibilities include quality assurance and quality control (QA/QC) of field demolition monitoring and documentation. As such, Mr. McCaffery has an understanding of City and FEMA requirements related to demolition activities, including packet management, working closely with the City of New Orleans project representatives, QA/QC of project documentation, and contractor invoice reconciliation.

Operations Manager (April 2014)

Hampton County, South Carolina | Winter Storm Pax Disaster Debris Program Management

Upon a notice to proceed from Hampton County, South Carolina, Mr. McCaffery, who had already been mobilized to the area, supported efforts to identify and train local staff, establish project infrastructure, survey county roads (many of which were unpaved), and set up disposal operations. Mr.

YEARS OF EXPERIENCE

3 years

AREAS OF EXPERTISE

- Disaster Debris Management
- Monitor Training
- Monitor Dispatch
- Right-of-Way Debris Removal
- Disposal Operations
- Hazardous Tree Removal
- Field Operations
- Quality Assurance/Quality Control
- FEMA Documentation and Requirements
- Health and Safety
- Demolition Operations

DISASTERS

- 4166 Winter Storm SC
- 4165 Winter Storm GA
- 4086 Hurricane Sandy
- 1603 Hurricane Katrina

EDUCATION

Bucks County Community College

Associate of Arts, Hospitality and Tourism Management

McCaffery was instrumental in monitor dispatching and cost tracking and reporting. He also served as the on-site ADMS expert.

Senior Field Supervisor (March 2014)

Colleton County, South Carolina | Winter Storm Pax Disaster Debris Program Management

Mr. McCaffery was an integral part of our team's rapid mobilization immediately following Winter Storm Pax for Colleton County, South Carolina. Mr. McCaffery was responsible for assisting with initial damage assessments, debris site surveys, and helped establish project infrastructure. He also provided ADMS field support and supervision.

Operations Manager (February 2014)

City of Augusta, Georgia | Winter Storm Pax Disaster Debris Program Management

Mr. McCaffery was an integral part of our team's rapid mobilization immediately following Winter Storm Pax for the City of Augusta, Georgia. Mr. McCaffery was responsible for assisting with initial damage assessments, debris site surveys, and helped establish project infrastructure. He also served as project staff recruiter and trainer, field operations manager, and ADMS specialist for one of the largest debris generating events in recent state history.

Field Supervisor (January 2013–December 2013)

New Jersey Department of Environmental Protection | Hurricane Sandy Waterways Debris Removal Program Management – North Region

Mr. McCaffery supported the implementation of our ADMS system through all phases of operations, including truck certifications, load collection, load disposal, and unit rate collections. Mr. McCaffery also assisted in the quality assurance and quality control checks to ensure that the client received the proper documentation to satisfy all FEMA requirements. This program covered a large portion of the New Jersey Northeastern Coast and waterways and includes the removal of storm debris and vessels from New Jersey waterways.



Owen Chaoran Chen Data Manager

EXPERIENCE SUMMARY

Mr. Chen is an experienced quality control and data manager for Tetra Tech, Inc. His areas of expertise are in geographic information systems, documentation management, quality assurance/quality control (QA/QC), database management, and reporting. He also has an in-depth understanding of federal emergency management agency (FEMA) eligibility, documentation requirements, and our automated debris management system (ADMS).

As data manager, Mr. Chen will be responsible for multiple functions during debris removal activities, including reporting and QA/QC of all ADMS documentation in the field along with storing the documentation in preparation for future audits. He will validate documentation and metrics being reported as accurate and on-schedule.

FEATURED EXPERIENCE

Data Manager (January 2016-Current)

Calaveras County, California | Catastrophic Fires

The catastrophic fires that impacted Calaveras County left severe destruction and damage. Sukut Construction was one of the contractors selected by Calrecycle to remove fire related debris and hazards from private property in the fire impacted areas of Calaveras County. Tetra Tech was contracted by Sukut Construction to provide data management and administrative functions to support debris removal efforts. Tetra Tech digitized source documentation and developed a custom Access database to provide reporting as to the status of properties and debris removal operations. Mr. Chen was deployed as a data manager where he oversaw the custom Access database used for the program.

Data Manager (November 2015-January 2016)

Lake County, California | Catastrophic Fires| Disaster Debris Program Management

Following catastrophic fires that impacted Lake County in September 2015, many dead or dying trees that were a threat to fall and threaten citizens along the County right-of-way (ROW) were in need of mitigation. Tetra Tech was hired to complete a hazardous tree mitigation program, which included both ROW trees and private property. Mr. Chen was deployed as a data manager where he supported documentation management, reporting, and tree surveying efforts.

Data Manager (March 2014-August 2014)

Boulder County, Colorado | Severe Flooding Disaster Debris Program Management

Mr. Chen served as data manager for Boulder County, Colorado following the severe flooding that affected the state in September 2013. Mr. Chen

YEARS OF EXPERIENCE

4 years

AREA OF EXPERTISE

- QC GPS Data Collection/Disposal Monitoring
- Managing ROE Status Layers
- ROW/Parks program live layers on ArcGIS Online Systems

DISASTERS

- 4240 Valley & Butte Fire
- 4166 SC Winter Storm
- 4145 CO Severe Storms and Flooding
- 4086 Hurricane Sandy

EDUCATION

University of Pennsylvania
State University
Bachelor of Geography
Minor of GIS

supported the implementation of our ADMS technology through all phases of operations and was responsible for troubleshooting with our field team. Mr. Chen's responsibilities also included completing custom reports for Boulder County, providing FEMA compliance management, including quality assurance (QA)/quality control (QC) of right-of-way load collection; and managing the accuracy and organization for all project documents. Through GIS mapping services, Mr. Chen provided requested maps of project progression which required customization for the County. Finally, Mr. Chen also provided Financial Recovery support in assisting with complete of FEMA-PA project worksheets.

Data Manager (February 2014–March 2014)

Dorchester County, South Carolina | Winter Storm Pax Disaster Debris Program Management

Mr. Chen served as the data manager for the County of Dorchester, South Carolina following Winter Storm Pax. He was responsible for deploying and supporting field use of ADMS technology through all phases of operations including truck certifications, load collection, load disposal, and unit rate collections. Mr. Chen also aided in FEMA compliance management, including QA/QC of right-of-way load collection, and managing the documentation for all hazardous tree and hanger removal resulting in the development of several resourceful maps for the county and project team members.

Data Manager (January 2013 – April 2013)

New Jersey Department of Environmental Protection | Hurricane Sandy Waterways Debris Removal Program Management

Mr. Chen was essential to the New Jersey Department of Environmental Protection (NJDEP) waterways debris removal program as a data manager. Mr. Chen implemented our ADMS technology through all phases of operations including truck certifications, load collection, load disposal, and unit rate collections. Due to Mr. Chen's understanding of the project requirements, he also supported QA/QC checks to validate the client received the proper data and documentation to satisfy all FEMA requirements.



Paris Atkinson Billing/Invoice Analyst

EXPERIENCE SUMMARY

Ms. Paris Atkinson is a senior data manager and billing/invoice analyst, where her responsibilities include data management, management of monitoring documentation for the Federal Emergency Management Agency (FEMA), invoice reconciliation, and the use of our automated debris management system (ADMS). She has extensive experience on all aspects of program data management up to and including project closeout and post-closeout audit support. Ms. Atkinson possesses knowledge and understanding of federal grant programs, including the Federal Highway Administration (FHWA) Emergency Relief (ER) Program and FEMA Public Assistance (PA) Program.

As billing/invoice analyst for Broward County, Ms. Atkinson will work with our data manager to enter, tabulate, and organize collection and disposal data into FEMA-required formats. She will develop regular updates on the quantities and types of debris collected and will provide quality assurance and quality control processes for the review and verification of field and debris contractor-provided data in support of invoices.

FEATURED EXPERIENCE

Senior Data Manager (January 2016–February 2016)

Collier County, Florida | Severe Storm and Straight Line Wind Debris Program Management

Collier County, FL was impacted in January by a severe storm with measured winds as high as 83 mph. The storm caused significant arboreal damage to the County, so much so that the County chose to activate their disaster debris removal contractors and Tetra Tech. Ms. Atkinson provided program management and debris monitoring services to the County, which included ADMS technology implementation, quality assurance (QA)/quality control (QC) of data, multiple reporting functions, management of debris pile reported data and citizen concerns, contractor reconciliation and invoicing, and final project closeout.

Senior Data Manager (May 2015–Ongoing)

Hays County; Caldwell County; City of Houston, Texas | Severe Storms, Tornadoes, Straight-Line Winds, and Flooding Program Management

The jurisdictions of Hays County, Caldwell County, and the City of Houston were among the many Texas communities impacted by the torrential rainfall in May of 2015. Tetra Tech was activated by the aforementioned communities to provide program management and disaster debris monitoring services. Ms. Atkinson served as the senior data manager for the Texas projects. She supported the projects by managing the data team in the field; providing FEMA compliance management, including QA/QC of right-of-way load collection; and managing the documentation for all hazardous tree and

YEARS OF EXPERIENCE

9 Years

AREA OF EXPERTISE

- FEMA Reimbursement and Audit Support
- Reimbursement Policies and Procedures
- RecoveryTrac™ ADMS
- Data Management
- Debris Monitoring Compliance
- Vessel Removal
- Leaner and Hanger Removal
- Invoice Reconciliation

GRANT EXPERIENCE

- FEMA PA
- FHWA ER

DISASTERS

- Collier County FL Severe Storms
- 4240 CA Valley Fire
- 4225 TX Flooding
- 4223 TX Flooding
- 4166 SC Winter Storm
- 4165 GA Winter Storm
- 4145 CO Flooding
- 4087 Hurricane Sandy
- 4080 Hurricane Isaac
- 4046 CT Winter Storm
- 4029 TX Wildfires
- 3268 NY Snowstorm
- 1609 Hurricane Wilma

EDUCATION

University of Florida
Bachelor of Science,
Psychology, 2005

hanger removal. Ms. Atkinson also provided ADMS and database support for all staff members. Hays County has an ongoing PPDR program for which Ms. Atkinson continues to provide data management support.

Data Manager (May 2014–August 2014)

Blount County; Limestone County, Alabama | Severe Storms and Tornadoes Disaster Debris Program Management

Ms. Atkinson served as data manager for two counties in Alabama following severe storms and tornadoes that affected the area in May. Ms. Atkinson was responsible for managing invoice reconciliation with the debris contractor; managing the data team in the field; providing FEMA compliance management, including QA/QC of right-of-way load collection; and managing the documentation for all hazardous tree and hanger removal.

Data Manager (February 2013–April 2014)

New Jersey Department of Environmental Protection | Hurricane Sandy Waterways Debris Removal Program Management

Ms. Atkinson served as data manager following Hurricane Sandy, where she was responsible for the management and data creation of vessel removal tracking in New Jersey waterways, photo management of vessel removals, data management and tabulation, monitoring document compliance, monitoring the removal of vessels in accordance with legal requirements established, and database support for staff.

Project Manager (July 2012–September 2012)

Lake County, Florida | FEMA-Compliant Disaster Debris Management Plan

In August 2012, she assisted Lake County, Florida, with the development of a FEMA-compliant disaster debris management plan. In addition, she assisted the County in developing a scope of services for their request for proposal for debris contracting, where a large focus was on helping complete the debris hauling request for proposal and guiding the County through the bid process.

Data Manager (July 2012–August 2012)

Clay County, Florida | Tropical Storm Debby Disaster Debris Management Program

Ms. Atkinson was responsible for data entry, tabulation, data management of compliance documentation, and the organization of collection and disposal data.

Operations Manager and Data Manager (February 2006–August 2006)

Collier County, Florida | Hurricane Wilma Disaster Waterways Debris Removal Program Management

Ms. Atkinson served as operations manager and data manager for Collier County, Florida, following Hurricane Wilma, where she was responsible for the supervision, support, and evaluation of field staff; documentation compliance; and ensuring waterway debris removal was compliant with Natural Resources Conservation Service contract specifications. Ms. Atkinson also developed standard operating procedures specific to the waterway debris removal project.

Operations Manager (October 2005–February 2006)

City of Naples and Naples Airport Authority, Florida | Hurricane Wilma Disaster Debris Management Program

Ms. Atkinson served as operations manager following Hurricane Wilma, where she was responsible for the supervision, support, and evaluation of field staff; documentation compliance; management of hazardous tree and hanger photo documentation; and ensuring FEMA compliance in the field.

Section 5: Resources

RESOURCES

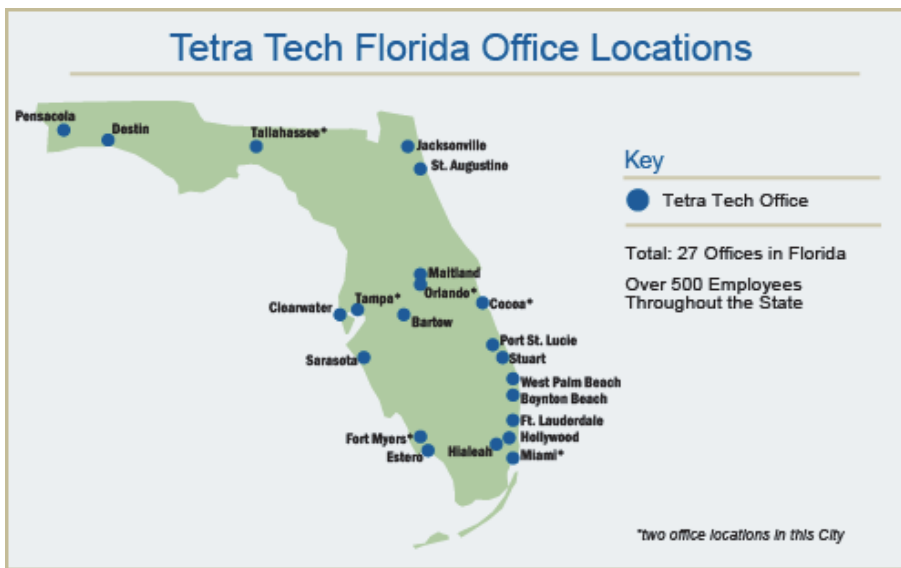
OFFICE LOCATIONS

In the aftermath of a disaster, time is of the essence. Each minute that slips by could result in higher costs and longer downtimes. Minimizing the effects of a disaster calls for an emergency management partner with the resources to mobilize a swift, efficient response in hours, not days. ***Our Central Florida base of operations and warehouse are capable of supporting 50 simultaneous recovery operations for at least 90 days.***

Tetra Tech understands the critical nature of asset management and logistics following a disaster. Many of the critical resource items we use during a recovery effort are housed at our Central Florida warehouse. This warehouse boasts 120 bays stocked with critical resource items needed to expedite a quick response to an event.

Our experience successfully managing multiple disaster response and recovery operations simultaneously ensures the County a safe and quick response and allows the County to restore their normal operations as quickly as possible. Our staff of industry experts has applied the necessary project controls to efficiently document and complete field work and has provided follow-up support, including appeal development and closeout audit support months and, in some cases, years after field work was complete. Tetra Tech encourages the County to inquire about our commitment, quality of work, and responsiveness by contacting our references.

Exhibit 5-1: Florida Offices



AVAILABLE STAFF

Tetra Tech has access to hundreds of additional personnel with key expertise in relevant topic areas. We maintain a full-time staff of approximately 85 personnel, while Tetra Tech employs over 16,000 staff. Clients count on us to respond in their time of need, and we deliver. The firm has never failed to respond to our clients' deployment and mobilization needs, regardless of location or disaster event. Essential Tetra Tech staff with key experience in large-scale rapid deployment have personally hired and deployed approximately 10,000 emergency response personnel for more than 42 disaster events. ***Tetra Tech confirms that all staff assigned to this project will be fully available to the County upon issuance of a notice to proceed.***

Based on the workforce planning standards described in the County's RFP and our numerous experiences working with local governments following debris-generating events, the following matrix illustrates our workforce mobilization following activation by the County. Tetra Tech is committed to providing adequate staff within 48 hours of activation. Many of our mobilization requirements are directly proportional to the debris haulers needs. For example, as the debris hauler "ramps-up" during the initial two weeks of operations, Tetra Tech will respond accordingly with additional staff, and as the debris hauler scales back operations during project closeout, the need for Tetra Tech staff will diminish.

Section 5: Resources

Tetra Tech is committed to working with the County to understand these staffing changes and the impact on the total dollar amount of the project. As a component of the Tetra Tech Monitoring Plan, we will estimate total staffing needs on a week-by-week basis over the duration of the project.

Exhibit 5-2: Tetra Tech Mobilization Matrix

Title	Industry Standards	Debris Hauler Mobilization	Mobilization Requirements
Supervisors			
Project Manager	1 per project	N/A	1
Debris Management Advisor	1 per project	N/A	1
Field Operations Manager	1 per project	N/A	1
Mobilization Operations			
GIS Analyst	1 per project	N/A	1
Environmental Specialist	As needed	N/A	1
Collection Operations			
Supervising Monitor	1:10 monitors	N/A	3
Loading Site Monitor	1/loading unit	30 loading units	30
Roving Monitor	As needed	N/A	1
Disposal Operations			
Temporary Debris Management Site (TDMS) Site Monitor	2 per TDMS location	2 TDMS locations	4
Data Operations			
Billing/Invoice Analyst	1 per project	N/A	1
Data Manager	1 per project	N/A	1
Ticket Data Entry Clerk	1:15 monitors	N/A	2
Administrative Assistant	1:50 monitors	N/A	1

Section 5: Resources

EQUIPMENT

Tetra Tech understands the critical nature of asset management and logistics following a disaster. To that end, Tetra Tech maintains a warehouse located in Orlando with over 120 fully stocked bays of debris monitoring supplies capable of supporting over 50 simultaneous recovery operations for over 90 days. ***Tetra Tech has consistently deployed large-scale mobilizations of hundreds of staff and thousands of dollars' worth of equipment to multiple clients in a matter of days and on very short notice.*** Exhibit 5-3 lists available equipment and facilities readily available upon activation.

Exhibit 5-3: Available Equipment

FIELD DOCUMENTS* CURRENTLY IN THE WAREHOUSE

ADMS Handheld Units	825
Time and Materials Forms	9,446
Truck Certification Forms	4,500
ADMS Ticket Stubs	530,000
Haul Out Ticket Stubs	50,000
Placards	4,500

KITS

Project Manager Kits (1 per 100 monitors)	40
Project Coordinator Kits (1 per 100 monitors)	20
Human Resources Kits (1 per 100 monitors)	40
Collection Monitor Kits (1 per 25 monitors)	90
Disposal Monitor Kits (1 kit per disposal site)	40
Leaner/Hanger/Stump Kits (1 per 50 monitors)	40

EQUIPMENT**

Laptops	250
Mifi (Mobile Wireless)	250
High Speed Scanners	35
Printers	45
Mobile Command Office	3
Gas Trucks	To be obtained from pre-contracted vendor
Modular Work Locations	To be obtained from pre-contracted vendor
Generators	To be obtained from pre-contracted vendor
Portable Facilities	To be obtained from pre-contracted vendor

Section 6: Additional Information

ADDITIONAL INFORMATION

CONFLICTS OF INTEREST

Tetra Tech certifies that in the preparation and submission of this proposal, to the best of our knowledge, neither Tetra Tech, nor any employee, has any conflict of interest, either direct or indirect, in connection with the services required in Solicitation T2111235B1.

LITIGATION

State Lawsuit in the following jurisdiction:
Circuit Court, 17th Circuit, Broward County, FL:

L00443 Broward County v. Williams Hatfield & Stoner, Inc.
 Ft. Lauderdale International Airport Canopy Project

Williams Hatfield & Stoner merged into Tetra Tech on 1/2/2004.

Tetra Tech certifies that it has:

- no current claims, arbitrations, administrative hearings, mediations and lawsuits related to debris monitoring, disaster recovery consulting services;
- no pending lawsuits related to debris monitoring, disaster recovery consulting services; and
- no judgements from lawsuits related to debris monitoring, disaster recovery consulting services.

SUBCONTRACTORS

Tetra Tech does not discriminate on the basis of social and economic disadvantage, race, color, sex, gender, disability, or national origin. *Tetra Tech agrees to use its best efforts to fully comply with 2 CFR §200.321 requirements as they relate to the County's contract for Debris Removal Monitoring Services.*

Historical Subcontracting Participation Efforts

It is Tetra Tech's practice to embrace subcontractor participation requirements in its contracting when feasible and possible. Exhibit 6-1 demonstrates a representative sampling of Tetra Tech's commitment to minority participation on Tetra Tech contracts.

Exhibit 6-1: Subcontractor Participation Requirements on Previous Tetra Tech Contracts

Firm	Client	%	Project	Contract Value	Type
Advent Consulting Associates	CA Emergency Management Agency	5%	Development and Completion of Emergency Function Annexes	\$882,026.00	DVBE
Consolidated Printing, Inc.	City of Chicago	5%	Regional Catastrophic Planning	\$125,383.00	WBE
B2B Strategic Solutions, Inc.	City of Chicago	25%	Regional Catastrophic Planning	\$646,901.00	MBE
TLC Engineering	City of Houston	40%	Disaster Management Recovery and Consulting Services	TBD: Preposition Contact	SBE M/DBE

Section 6: Additional Information

Firm	Client	%	Project	Contract Value	Type
Corporate Results, Inc.	Texas Tech University	20%	Business Impact Analysis	\$61,897.50	W/DBE
C&S Consultants, Inc.	City of New Orleans	20%	Project Management Services for Demolition and HHW Management Disposal	\$11,087,790.96	M/DBE
Julien Engineering & Consulting, Inc.	City of New Orleans	20%	Project Management Services for Demolition and HHW Management Disposal	\$11,087,790.96	M/DBE
Integrated Design Engineering Associates	City of Kansas City Missouri	8%	COOP Planning	\$129,282.00	D/WBE
Principle Design & Development, LLC	City of Palm Beach	TBD	Emergency Management Consulting Services	TBD: Preposition Contact	DBE
Palm Print, Inc.	City of Palm Beach	TBD	Emergency Management Consulting Services	TBD: Preposition Contact	DBE
Cousins & Associates, Inc.	City of Palm Beach	TBD	Emergency Management Consulting Services	TBD: Preposition Contact	DBE
Constant and Associates, Inc.	Los Angeles County, CA	10%	Emergency Exercise Design Consulting Services	\$692,406.00	CBE

Upon selection for award by the County for this contract, in conjunction with its policy to embrace and utilize small and minority businesses and women's business enterprises, Tetra Tech will continue its efforts to identify small and minority businesses and women's business enterprises to participate under this engagement to the extent feasible and practical.

FEDERAL CONTRACT PROVISIONS
(In addition to the **General Conditions**)

A. EQUAL EMPLOYMENT OPPORTUNITY CLAUSE (2 CFR §200.326 Appendix II to Part 200 (C))

During the performance of the contract, CONTRACTOR shall comply with the Equal Employment Opportunity Clause (41 CFR 60-1.4(b)):

1. *CONTRACTOR will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. CONTRACTOR will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.*
2. *CONTRACTOR will, in all solicitations or advertisements for employees placed by or on behalf of the CONTRACTOR, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.*
3. *CONTRACTOR will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the CONTRACTOR's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.*
4. *CONTRACTOR will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.*
5. *CONTRACTOR will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor for purpose of investigation to ascertain compliance with such rules, regulations, and orders.*
6. *In the event of the CONTRACTOR's noncompliance with the nondiscrimination clauses of this Contract or with any of the said rules, regulations or orders, this contract may be canceled, terminated, or suspended in whole or in part and the CONTRACTOR may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.*
7. *CONTRACTOR will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraph 1 through 7 in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The CONTRACTOR will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: provided, however, that in the event a CONTRACTOR becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the CONTRACTOR may request the United States to enter into such litigation to protect the interest of the United States.*

04.12.16

B. DAVIS-BACON ACT (2 CFR §200.326 Appendix II to Part 200 (D))

(Not applicable to this Contract; applicable only for prime construction contracts in excess of \$2,000.) CONTRACTOR shall pay wages to laborers and mechanics at a rate not less than those in the attached Davis-Bacon Act Wage Rate Table(s) as made by the Secretary of Labor. CONTRACTOR shall pay wages not less than once per week.

C. COPELAND “ANTI-KICKBACK” ACT (2 CFR §200.326 Appendix II to Part 200 (D))

(Not applicable to this Contract; applicable only for prime construction contracts in excess of \$2,000.) CONTRACTOR shall comply with the Copeland “Anti-Kickback” Act (40 U.S.C. §3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that the CONTRACTOR and COUNTY is prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The COUNTY must report all suspected or reported violations to the appropriate Federal agency.

1. *CONTRACTOR. The CONTRACTOR shall comply with 18 U.S.C. § 874, 40 U.S. C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this Contract.*
2. *Subcontracts. The CONTRACTOR or subcontractor shall insert in any subcontracts the clause above and such other clauses as the FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime CONTRACTOR shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.*
3. *Breach. A breach of the contract clause above may be grounds for termination of the Contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. §5.12.*

D. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (2 CFR §200.326 Appendix II to Part 200 (E)) (40 U.S.C. 3701-3708)

(Not applicable to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.) Contracts in excess of \$100,000 that involve the employment of mechanics or laborers shall comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each CONTRACTOR and its subcontractors shall compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous.

E. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT (2 CFR §200.326 Appendix II to Part 200 (F))

(Not applicable to this Contract.) If the Federal award meets the definition of “funding agreement” under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business

Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.

F. CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (2 CFR §200.326 Appendix II to Part 200 (G))

CONTRACTOR shall comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

G. DEBARMENT AND SUSPENSION (2 CFR §200.326 Appendix II to Part 200 (H))

A contract cannot be awarded to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” The Excluded Parties List System in SAM contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. The Vendor/CONTRACTOR agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The Vendor/CONTRACTOR further agrees to include a provision requiring such compliance in its lower tier covered transactions.

H. PROCUREMENT OF RECOVERED MATERIALS (2 CFR §200.322)

CONTRACTOR must comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired by the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

I. CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS (2 CFR §200.321)

Should the CONTRACTOR subcontract any of the work under this Contract, CONTRACTOR shall take the following affirmative steps: place qualified small and minority businesses and women's business enterprises on solicitation lists; assure that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources; divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises; establish delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and use the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce. Their websites and contact information can be found at www.SBA.gov and www.MBDA.gov.

J. ENERGY EFFICIENCY AND CONSERVATION

CONTRACTOR shall comply with the mandatory standards and policies of the Florida Energy Efficiency and Conservation Act issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. § 6201).

04.12.16

K. BYRD ANTI-LOBBYING AMENDMENT (2 CFR §200.326 Appendix II to Part 200 (I))

Vendors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award. If not provided with the bid response, Vendor must complete and submit the **Certification Regarding Lobbying Form** within three business days of COUNTY's request.

04.12.16

CERTIFICATION OF RESTRICTIONS ON LOBBYING FORM

If not provided at time of bid submittal, the form must be completed and submitted within three business days of County's request. Vendor hereby certifies the following:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all sub awards at all tiers (including subcontracts, sub grants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance is placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code (U.S.C.). §1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Vendor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, Vendor understands and agrees that the provisions of 31 U.S.C. § 3801 et. seq., apply to this certification and disclosure, if any.



Signature of Authorized Official on behalf of Vendor

Jonathan Burgiel, Vice President/Operation Manager

Name and Title of Authorized Official on behalf of Vendor

Tetra Tech, Inc.

Name of Vendor

July 15th, 2016

Date of Execution

LIVING WAGE ORDINANCE COMPLIANCE AFFIDAVIT FORM

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes. Vendor should scan and upload the completed, signed form(s) in BidSync.

Covered Employer: Tetra Tech, Inc.

Address: 2301 Lucien Way, Suite 120, Maitland, FL 32751

Local Contact: Betty Kamara

E-Mail Address: betty.kamara@tetrattech.com

Address: Same as above

Contract Amount: Unknown as services to provided under the resulting contract are on an as needed basis

Using Agency Served: Broward County, Florida

Solicitation No. and Title: Solicitation T2111235B1 for Disaster Debris Monitoring Services

By signing below I hereby certify that the covered employees listed below: (please check one) Unknown at this time as services to be provided are on an as needed basis.

- A. Receive a minimum pay of \$_____ per hour and are provided health benefits valued at \$_____ per hour.
- B. Receive a minimum pay of \$_____ per hour and are not provided health benefits.

Provide names of hourly employees and their job classifications providing covered services for the above referenced contract:

Name	Job Class	A or B	Name	Job Class	A or B
<u>Unknown at this time as services to be provided under the resulting contract are on an as needed basis.</u>	_____	Select	_____	_____	Select
_____	_____	Select	_____	_____	Select
_____	_____	Select	_____	_____	Select
_____	_____	Select	_____	_____	Select

(Attach additional sheets in the format above, if needed)

I, Jonathan Burgiel of Tetra Tech, Inc. hereby attest that
(Print Name) (Company)

(1) I have the authority to sign this notarized compliance affidavit, (2) the following information is true, complete and correct and (3) the Vendor certifies that it shall:

- a) Pay all employees working on this contract/project, who are covered by the Living Wage Ordinance, as amended, in accordance with wage rates and provisions of the Living Wage Ordinance;
- b) Provide the applicable living wage statement regarding wage rates with the employee's first paycheck or direct deposit receipt as required by the Living Wage Ordinance, as amended; and
- c) (IF APPLICABLE) If health care benefits are provided under "A" above, the health care benefit meets the standard health benefit plan as described in Section 627.6699 (12)(b)(4), Florida Statutes, as amended. As a principle officer of the covered employer, the undersigned affirms that the referenced Florida Statute has been reviewed and the covered employer's health plan meets all the elements required by the statute, as amended.

Jonathan Burgiel
Signature

Vice President/Operations Manager
Title

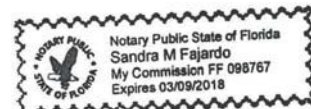
SWORN TO AND SUBSCRIBED BEFORE ME this 15th day of July, 2016

STATE OF Florida

COUNTY OF Orange

Sandra Ybarra
Notary Public (Sign name of Notary Public)

My commission expires: _____ (SEAL)



Personally Known or Produced Identification Type of Identification Produced: _____

State of Florida

Department of State

I certify from the records of this office that TETRA TECH, INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on April 28, 1988.

The document number of this corporation is P19034.

I further certify that said corporation has paid all fees due this office through December 31, 2016, that its most recent annual report/uniform business report was filed on January 12, 2016, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Fourth day of March, 2016*



Ken DeFoner
Secretary of State

Tracking Number: CU7409835110

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
09/25/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Insurance Services West, Inc. Los Angeles CA Office 707 Wilshire Boulevard Suite 2600 Los Angeles CA 90017-0460 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): (800) 363-0105		
	E-MAIL ADDRESS:		
INSURED Tetra Tech, Inc. 3475 E. Foothill Blvd. Pasadena, CA 91107	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: National Union Fire Ins Co of Pittsburgh		19445
	INSURER B: The Insurance Co of the State of PA		19429
	INSURER C: AIG Europe Limited		AA1120841
	INSURER D: Lexington Insurance Company		19437
	INSURER E: INSURER F:		

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liability <input checked="" type="checkbox"/> X,C,U GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			GL3372258	10/01/2015	10/01/2016	EACH OCCURRENCE	\$2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
							MED EXP (Any one person)	\$10,000
							PERSONAL & ADV INJURY	\$2,000,000
							GENERAL AGGREGATE	\$4,000,000
							PRODUCTS - COMP/OP AGG	\$4,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			CA3194397	10/01/2015	10/01/2016	COMBINED SINGLE LIMIT (Ea accident)	\$2,000,000
							BODILY INJURY (Per person)	
							BODILY INJURY (Per accident)	
							PROPERTY DAMAGE (Per accident)	
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION			TH1500079	10/01/2015	10/01/2016	EACH OCCURRENCE	\$5,000,000
							AGGREGATE	\$5,000,000
B	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			WC014267906 WC014267907 WC014267908 WC014267912	10/01/2015 10/01/2015 10/01/2015 10/01/2015	10/01/2016 10/01/2016 10/01/2016 10/01/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT	\$1,000,000
							E.L. DISEASE-EA EMPLOYEE	\$1,000,000
							E.L. DISEASE-POLICY LIMIT	\$1,000,000
D	<input checked="" type="checkbox"/> Professional Liability and Contractor's Pollution Liability			028182375	10/01/2015	10/01/2016	Each Claim Aggregate	\$5,000,000 \$5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Includes Stop Gap: OH, ND, WA, WY

CERTIFICATE HOLDER

CANCELLATION

Evidence of Insurance	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Aon Risk Insurance Services West, Inc.</i>

Supplier: Tetra Tech, Inc**General Conditions**

These are standard instructions for Invitations to Bid and Quotation Requests issued by the Broward County Board of County Commissioners (County). The County may delete, supersede, or modify any of these standard instructions for a particular contract by indicating such change in the Special Instructions to Vendors or in the price sheets. By acceptance of a purchase order or award notification issued by the County, Vendor agrees that the provisions included within this solicitation, which upon award serves as the executed contract, shall prevail over any conflicting provision within any standard form contract of the Vendor regardless of any language in Vendor's contract to the contrary. Digital versions of this solicitation are provided for the convenience of the Vendor. Any material modification of the solicitation and/or any alteration of the verbiage is expressly prohibited and is not enforceable. Any alteration may render the Vendor's submission void and bar the Vendor from consideration in connection with this solicitation.

1. Execution of Solicitation Response:

- (a) Solicitation response must contain a signature of an individual authorized to bind the Vendor. Electronic signatures or digital signatures shall have the same effect as an original signature.
 - (b) No award will be made to a Vendor who is delinquent in payment of any taxes, fees, fines, contractual debts, judgments, or any other debts due and owed to the County, or is in default on any contractual or regulatory obligation to the County. By submitting this solicitation response, Vendor attests that it is not delinquent in payment of any such debts due and owed to the County, nor is it in default on any contractual or regulatory obligation to the County. In the event the Vendor's statement is discovered to be false, Vendor will be subject to debarment and the County may terminate any contract it has with Vendor.
 - (c) Vendor certifies by submitting this solicitation response that no principals or corporate officers of the firm were principals or corporate officers in any other firm which was suspended or debarred from doing business with Broward County within the last three years, unless noted in the response.
 - (d) By submitting this solicitation response, Vendor attests that any and all statements, oral, written or otherwise, made in support of this response, are accurate, true and correct. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to Section 21.119 of the Broward County Procurement Code.
2. **Withdrawal:** No Vendor may withdraw its solicitation response before the expiration of 120 days from the date of opening. Any response altering the 120 day requirement shall be deemed non-responsive.
 3. **Submission of Bids and Quotations:** Vendor's solicitation response must be submitted electronically through BidSync, the County's designated electronic bidding system. It is the Vendor's sole responsibility to assure its response is submitted and received through BidSync by the date and time specified in the solicitation. The County will not consider solicitation responses received by other means. Any timeframe references are in Eastern Standard Time. The official time for electronic submittals is BidSync's servers, as synchronized with the atomic clock. All parties without reservation will accept the official time.
 4. **Bid Opening (Invitation for Bids only):** All bids received shall be publicly opened in the presence of one or more witnesses at the Purchasing Division office, located at 115 S. Andrews Avenue, Room 212, Fort Lauderdale, FL 33301, or other designated County location as posted in the Purchasing Division offices. The Purchasing Division will decrypt

responses received in BidSync immediately following the designated bid end date and time.

5. **Addenda:** Broward County reserves the right to amend this solicitation prior to the opening date indicated. Only written addenda are binding. If, upon review, material errors in specifications are found, contact the Purchasing Division immediately, prior to opening date, to allow for review and subsequent clarification on the part of Broward County. Vendors shall be responsible for obtaining, reviewing and acknowledging each addendum.
6. **Prices, Terms, and Payments:** Firm prices shall be provided and include all handling, set up, shipping and inside delivery charges to the destination shown herein unless otherwise indicated.
 - (a) **The Vendor:** In submitting this solicitation response certifies that the prices provided herein are not higher than the prices at which the same commodity(ies) or service(s) is sold in approximately similar quantities under similar terms and conditions to any purchaser whomsoever.
 - (b) **F.O.B.:** Unless otherwise specified, prices shall be provided as F.O.B. Destination, freight included and inclusive of all costs. Current and/or anticipated applicable fuel costs should be considered and included in the prices provided.
 - (c) **Ties:** The Purchasing Division will break tie responses in accordance with the Procurement Code.
 - (d) **Taxes:** Broward County is exempt from Federal Excise and Florida Sales taxes on direct purchase of tangible property. Exemption numbers appear on purchase order. The Vendor shall pay all applicable sales, consumer, land use, or other similar taxes required by law. The Vendor is responsible for reviewing the pertinent State Statutes involving the sales tax and complying with all requirements.
 - (e) **Discounts:** Vendors may offer a cash discount for prompt payment. However, such discounts will not be considered in determining the lowest net cost for evaluation purposes. Vendors should reflect any discounts to be considered in the evaluation in the unit prices submitted.
 - (f) **Mistakes:** Vendors are cautioned to examine all specifications, drawings, delivery instructions, unit prices, extensions, and all other special conditions pertaining to this solicitation. Failure of the Vendor to examine all pertinent documents shall not entitle them to any relief from the conditions imposed in the contract. In case of mistakes in extension, the unit price shall govern. Multiplication or addition errors are deemed clerical errors and shall be corrected by the County.
 - (g) **Ordering:** The County reserves the right to purchase commodities/services specified herein through contracts established by other governmental agencies or through separate procurement actions due to unique or special needs. If an urgent delivery is required, within a shorter period than the delivery time specified in the contract and if the seller is unable to comply therewith, the County reserves the right to obtain such delivery from others without penalty or prejudice to the County or to the seller.
7. **Open-End Contract:** No guarantee is expressed or implied as to the total quantity of commodities/services to be purchased under any open-end contract. Estimated quantities will be used for comparison purposes only. The County reserves the right to issue purchase orders as and when required, or, issue a blanket purchase order for individual agencies and release partial quantities or, issue instructions for use of Direct Purchase Orders by various County agencies, or, any combination of the preceding. No delivery shall become due or be acceptable without a written order or shipping instruction by the County, unless otherwise provided in the contract. Such order will contain the quantity, time of delivery and other pertinent data. However, on items urgently required, the seller may be given telephone notice, to be confirmed by an order in writing.

8. **Contract Period (Open-End Contract):** The initial contract period shall start and terminate as indicated in the Special Instructions to Vendor. The Vendor will complete delivery and the County will receive delivery on any orders transmitted to the Vendor prior to the expiration date. The Director of Purchasing may renew this contract subject to Vendor acceptance, satisfactory performance, and determination that renewal is in the best interest of the County. The County will provide Notification of Intent to Renew in advance of the contract expiration date. All prices, terms and conditions shall remain firm for the initial period of the contract and for any renewal period unless subject to price adjustment specified as a "special condition" hereto. ***In the event scheduled services will end because of contract expiration, the Vendor shall continue the service at the direction of the Director of Purchasing. The extension period shall not extend for more than ninety (90) days beyond the expiration date of the existing contract. The Vendor shall be compensated for the service at the rate in effect when this extension clause is invoked by the County.***
9. **Fixed Contract Quantities:** Purchase order(s) for full quantities will be issued to successful Vendor(s) after notification of award and receipt of all required documents. Fixed contract quantities up to twenty (20) percent of the originally specified quantities may be ordered prior to the expiration of one (1) year after the date of award, provided the Vendor agrees to furnish such quantities at the same prices, terms and conditions.
10. **Awards: If a specific basis of award is not established in the Special Instructions to Vendors, the award shall be to the responsible Vendor with the lowest responsive solicitation response meeting the written specifications.** As the best interest of the County may require, the right is reserved to make award(s) by individual commodities/ services, group of commodities/services, all or none or any combination thereof. When a group is specified, all items within the group must be priced. A Vendor desiring to offer "No Charge" on an item in a group must indicate by placing a \$0.00 in the offer field, and enter "No Charge" in the "Notes for Buyer" section in BidSync; otherwise the group will be construed as incomplete and may be rejected. However, if Vendors do not offer all items within a group, the County reserves the right to award on an item by item basis. When a group is indicated for variable quantities and the group shows evidence of unbalanced prices, such solicitation response may be rejected. The Director of Purchasing, or the Board of County Commissioners, whichever is applicable reserves the right to waive technicalities and irregularities and to reject any or all responses.
11. **Payment:** Payment for all goods and services, requested by a purchase order, shall be made in a timely manner and in accordance with Local Government Prompt Payment Act, Section 218.70, Florida Statutes, and the Prompt Payment Policy, Section No. 1-51.6, Broward County Code of Ordinances. All applications for payment shall be submitted to the address indicated in the purchase order. The County will pay the Vendor after receipt, acceptance, and proper invoice is received. Invoices must bear the purchase order number.
12. **Termination:**
 - (a) **Availability of Funds:** If the term of this contract extends beyond a single fiscal year of the County, the continuation of this contract beyond the end of any fiscal year shall be subject to the availability of funds from the County in accordance with Chapter 129, Florida Statutes (Florida Statutes). The Broward County Board of County Commissioners shall be the final authority as to availability of funds and how such available funds are to be allotted and expended. In the event funds for this project/purchase are not made available or otherwise allocated, the County may terminate this contract upon thirty (30) days prior written notice to the Vendor.
 - (b) **Non Performance:** The Awarding Authority may terminate the contract for cause if the party in breach has not corrected the breach within ten (10) days after written notice from the aggrieved party identifying the breach. Cause for termination shall include, but not be limited

to, failure to suitably perform the work, failure to suitably deliver goods in accordance with the specifications and instructions in this solicitation, failure to continuously perform the work in a manner calculated to meet or accomplish the objectives of the County as set forth in this solicitation, or multiple breach of the provisions of this solicitation notwithstanding whether any such breach was previously waived or cured.

- (c) **For Convenience:** The Awarding Authority may terminate the contract for convenience upon no less than thirty (30) days written notice. In the event the contract is terminated for convenience, Vendor shall be paid for any goods properly delivered and services properly performed to the date the contract is terminated; however, upon being notified of County's election to terminate, Vendor shall cease any deliveries, shipment or carriage of goods, and refrain from performing further services or incurring additional expenses under the terms of the contract. In no event will payment be made for lost or future profits. Vendor acknowledges and agrees that it has received good, valuable and sufficient consideration from County, the receipt and adequacy of which are hereby acknowledged for County's right to terminate this contract for convenience.
13. **Conditions and Packaging:** Unless otherwise stated in the solicitation, or specifically ordered from an accepted price list, deliveries must consist only of new and unused goods and shall be the current standards production model available at the time of the solicitation response. The goods must be suitably packaged for shipment by common carrier. Each container or multiple units or items otherwise packaged shall bear a label, imprint, stencil or other legible markings stating name of manufacturer or supplier, purchase order number and any other markings required by specifications, or other acceptable means of identifying Vendor and purchase order number.
14. **Safety Standards:** Unless otherwise stipulated in the solicitation, all manufactured items and fabricated assemblies shall comply with applicable requirements of the Occupational Safety and Health Act (OSHA) and any standards thereunder. All sources of energy associated with machinery/equipment purchased shall be capable of being locked-out in accordance with OSHA 29 CFR 1910.147, Hazardous Energy Control. In compliance with OSHA 29 CFR 1910.1200, Hazard Communication Standard, and Chapter 442, Florida Statutes, Occupational Safety and Health, any chemical substance delivered from a contract resulting from this solicitation must be compliant with the Global Harmonized System (GHS) for Hazard Communication accompanied by a Safety Data Sheet (SDS) consisting of 16 sections. A Safety Data Sheet (SDS) shall also be submitted to the Broward County Risk Management Division, 115 South Andrews Avenue, Room 218, Fort Lauderdale, FL 33301-1803.
15. **Non-Conformance to Contract Conditions:** The County may withhold acceptance of, or reject any items which are found, upon examination, not to meet the specification requirements. Upon written notification (mail, email, or fax) of rejection, items shall be removed within five (5) calendar days by the Vendor at its expense and redelivered at its expense. The County regards rejected goods left longer than thirty (30) days as abandoned and the County has the right to dispose of them as its own property. On foodstuffs and drugs, no written notice of rejection need be given. Upon verbal notice to do so, the Vendor shall immediately remove and replace such rejected merchandise at its expense. Rejection for non-conformance, failure to provide services conforming to specifications, or failure to meet delivery schedules may result in Vendor being found in default.
16. **Inspection, Acceptance and Title:** Inspection and acceptance will be at delivery destination unless otherwise specified. Title and risk of loss or damage to all items shall be the responsibility of the Vendor until accepted by the County.
17. **Governmental Restrictions:** In the event any governmental restrictions may be imposed which would necessitate alteration of the material quality, workmanship or performance of the items offered on this solicitation response prior to its delivery, it shall be the responsibility of the successful Vendor to notify the County at once, indicating in its letter

the specific regulation which required an alteration. The County reserves the right to accept any such alteration, including any price adjustments occasioned thereby, or to cancel the contract at no further expense to the County.

18. **Legal Requirements:** Applicable provisions of all Federal, State of Florida, County and local laws, and of all ordinances, rules and regulations including the Broward County Procurement Code shall govern development, submittal and evaluation of responses received in response hereto and shall govern any and all claims and disputes which may arise between person(s) submitting a response hereto and the County by and through its officers, employees and authorized representative, or any other person natural or otherwise in addition to any resultant agreement. Lack of knowledge by any Vendor shall not constitute a recognizable defense against the legal effect thereof.
19. **Indemnification:** Vendor shall at all times hereafter indemnify, hold harmless and, defend County, its officers, agents, servants, and employees from and against any and all causes of action, demands, claims, losses, liabilities and expenditures of any kind, including attorney fees, court costs, and expenses, caused or alleged to be caused by intentional or negligent act of, or omission of, Vendor, its employees, agents, servants, or officers, or accruing, resulting from, or related to the subject matter of this contract including, without limitation, any and all claims, losses, liabilities, expenditures, demands or causes of action of any nature whatsoever resulting from injuries or damages sustained by any person or property. In the event any lawsuit or other proceeding is brought against County by reason of any such claim, cause of action or demand, Vendor shall, upon written notice from County, resist and defend such lawsuit or proceeding by counsel satisfactory to County or, at County's option, pay for an attorney selected by County Attorney to defend County. To the extent considered necessary by the Contract Administrator and the County Attorney, any sums due Vendor under this Agreement may be retained by County until all of County's claims for indemnification pursuant to this Agreement have been settled or otherwise resolved; and any amount withheld shall not be subject to payment of interest by County. The provisions and obligations of this section shall survive the expiration or earlier termination of this contract.

For construction contracts, Vendor shall indemnify and hold harmless County, its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to reasonable attorney's fees, to the extent caused by the negligence, recklessness or intentional wrongful misconduct of Vendor and persons employed or utilized by Vendor in the performance of this Agreement. To the extent considered necessary by Contract Administrator and County Attorney, any sums due Vendor under this contract may be retained by County until all of County's claims for indemnification pursuant to this contract have been settled or otherwise resolved, and any amount withheld shall not be subject to payment of interest by County. The provisions and obligations of this section shall survive the expiration or earlier termination of this contract.

20. **Notice:** Written notice provided pursuant to this contract shall be sent by certified United States Mail, postage prepaid, return receipt requested, or by hand-delivery with a request for a written receipt of acknowledgment of delivery, addressed to the party for whom it is intended at the place last specified. The place for giving notice shall remain the same as set forth herein until changed in writing in the manner provided in this section. For the present, the County designates:

Director, Broward County Purchasing Division
115 S. Andrews Avenue, Room 212
Fort Lauderdale, FL 33301-1801

Vendor shall identify in the solicitation response a designated person and address to whom notice shall be sent when required by the contract.

21. **Jurisdiction, Venue, Waiver of Jury Trial:** The contract shall be interpreted and construed in accordance with and governed by the laws of the state of Florida. Any

controversies or legal problems arising out of the contract and any action involving the enforcement or interpretation of any rights hereunder shall be submitted to the jurisdiction of the State courts of the Seventeenth Judicial Circuit of Broward County, Florida, the venue situs, and shall be governed by the laws of the state of Florida. By entering into this contract, Vendor and County hereby expressly waive any rights either party may have to a trial by jury of any civil litigation related to this contract. If any party demands a jury trial in an lawsuit arising out of the contract and fails to withdraw the request after written notice by the other party, the party making the request for jury trial shall be liable for the reasonable attorneys' fees and costs of the party contesting the request for jury trial.

22. **Patents and Royalties:** The Vendor, without exception, shall indemnify and save harmless and defend the County, its officers, agents and employees from liability of any nature or kind, including but not limited to attorney's fees, costs and expenses for or on account of any copyrighted, patented or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by the County. If the Vendor uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work. This provision shall survive the expiration or earlier termination of the contract.
23. **Assignment, Subcontract:** Contractor shall not transfer, convey, pledge, subcontract or assign the performance required by this solicitation without the prior written consent of the Director of Purchasing. Any award issued pursuant to this solicitation and the monies which may become due hereunder are not assignable, transferrable, or otherwise disposable except with the prior written consent of the Director of Purchasing.
24. **Qualifications of Vendor:** The County will only consider solicitation responses from firms normally engaged in providing the types of commodities, services, or construction specified herein. Vendor must have adequate organization, facilities, equipment, and personnel to ensure prompt and efficient service to County. The County reserves the right to inspect the facilities, equipment, personnel and organization or to take any other action necessary to determine ability to perform in accordance with specifications, terms and conditions. The County will determine whether the evidence of ability to perform is satisfactory and reserves the right to reject responses where evidence or evaluation is determined to indicate inability to perform. The County reserves the right to consider a Vendor's history of any and all types of citations and/or violations, including those relating to suspensions, debarments, or environmental regulations in determining responsibility. Vendor should submit with its solicitation response a complete history of all citations and/or violations notices and dispositions thereof. Failure of a Vendor to submit such information may be grounds for termination of any contract awarded to successful Vendor. Vendor shall notify the County immediately of notice of any citations or violations which they may receive after the opening date and during the time of performance under any contract awarded to them.
25. **Equal Employment Opportunity:** No Vendor shall discriminate against any employee or applicant for employment because of race, religion, age, color, sex or national origin, sexual orientation (including but not limited to Broward County Code, Chapter 16½), marital status, political affiliation, disability, or physical or mental handicap if qualified. Vendor shall take affirmative action to ensure that applicants are employed, and that employees are treated during their employment without regard to their race, religion, age, color, sex or national origin, sexual orientation, marital status, political affiliation, disability, or physical or mental handicap. Such actions shall include, but not be limited to the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation; and selection of training, including apprenticeship. The Vendor agrees to post in conspicuous

places available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause.

The Vendor selected to perform work on a County project must include the foregoing or similar language in its contracts with any subcontractors or sub consultants, except that any project assisted by U.S. Department of Transportation funds shall comply with the non-discrimination requirements in Title 49 C.F.R. Parts 23 and 26, as amended. The subcontractors, if any, will be made aware of and will comply with this nondiscrimination clause. Failure to comply with above requirements is a material breach of the contract, and may result in the termination of this contract or such other remedy as the County deems appropriate.

26. **Modifications:** All changes to purchase orders shall be by issuance of a change order. Any modifications or changes to any contract entered into as a result of this solicitation must be by written amendment with the same formality and of equal dignity prior to the initiation of any such change.
27. **Resolution of Protested Solicitations and Proposed Awards:** In accordance with Sections 21.118 and 21.120 of the Broward County Procurement Code, if a Vendor intends to protest a solicitation or proposed award of a contract the following apply:
 - (a) Any protest concerning the solicitation or other solicitation specifications, or requirements must be made and received by the County within seven (7) business days from the posting of the solicitation or addendum on the Purchasing Division's website. Such protest must be made in writing to the Director of Purchasing. Failure to timely protest solicitation specifications or requirements is a waiver of the ability to protest the specifications or requirements.
 - (b) Any protest concerning a solicitation or proposed award above the authority of the Director of Purchasing, after the opening, shall be submitted in writing and received by the County within five (5) business days from the posting of the recommendation for award on the Purchasing Division's website. Such protest must be made in writing to the Director of Purchasing.
 - (c) Any actual or prospective Vendor or offeror who has a substantial interest in and is aggrieved in connection with proposed award of a contract which does not exceed the amount of the award authority of the Director of Purchasing, may protest to the Director of Purchasing. The protest shall be submitted in writing and received within three (3) business days from the posting of the recommendation of award on the Purchasing Division's website.
 - (d) For purposes of this section, a business day is defined as Monday through Friday between 8:30 a.m. and 5:00 p.m. Failure to timely file a protest within the time prescribed for a solicitation or proposed contract award shall be a waiver of the Vendor's right to protest.
 - (e) As a condition of initiating any protest, the protestor shall present the Director of Purchasing a nonrefundable filing fee. The filing fee shall be based upon the estimated contract amount. For purposes of the protest, the estimated contract amount shall be the contract amount submitted by the protestor. If no contract amount was submitted, the estimated contract amount shall be the County's estimated contract price for the project. The County may accept cash, money order, certified check, or cashier's check, payable to Broward County Board of Commissioners. The filing fees are as follows:

Estimated Contract Amount	Filing Fee
\$30,000 - \$250,000	\$500
\$250,001 - \$500,000	\$1,000
\$500,001 - \$5 million	\$3,000
Over \$5 million	\$5,000

28. **Public Entity Crimes Act:** Vendor represents that its response to this solicitation will not violate the Public Entity Crimes Act, Section 287.133, Florida Statutes, which essentially provides that the County, as a public entity, may not transact any business with a Vendor in excess of the threshold amount provided in Purchasing Categories, Section 287.017, Florida Statutes, for category two purchases for a period of 36 months from the date of

being placed on the Convicted Vendor List. Vendor represents that its response to this solicitation is not a violation of Discrimination, Section 287.134, Florida Statutes, which essentially states that the County, as a public entity, cannot do business with an entity that is on the Discriminatory Vendor List i.e., has been found by a court to have discriminated as defined therein. Violation of this section shall result in cancellation of the County purchase and may result in debarment.

29. **Purchase by Other Governmental Agencies:** Each governmental unit which avails itself of this contract will establish its own contract, place its own orders, issue its own purchase orders, be invoiced therefrom and make its own payments and issue its own exemption certificates as required by the Vendor. It is understood and agreed that Broward County is not a legally bound party to any contractual agreement made between any other governmental unit and the Vendor as a result of this solicitation.
30. **Public Records:** The County is a public agency subject to Chapter 119, Florida Statutes. Any material submitted in response to this solicitation will become a public document pursuant to Section 119.071, Florida Statutes. This includes material which the responding Vendor might consider to be confidential or a trade secret. Any claim of confidentiality is waived upon submission, effective after opening pursuant to Section 119.071, Florida Statutes. As required by Chapter 119, Florida Statutes, the Contractor and all subcontractors for services shall comply with Florida's Public Records Law. Specifically, the Contractor and subcontractors shall:
- (a) Keep and maintain public records that ordinarily and necessarily would be required by the County in order to perform the service;
 - (b) Provide the public with access to such public records on the same terms and conditions that the County would provide the records and at a cost that does not exceed that provided in Chapter 119, Florida Statutes, or as otherwise provided by law;
 - (c) Ensure that public records that are exempt or that are confidential and exempt from public record requirements are not disclosed except as authorized by law; and
 - (d) Meet all requirements for retaining public records and transfer to the County, at no cost, all public records in possession of the Vendor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt. All records stored electronically must be provided to the County in a format that is compatible with the information technology systems of the agency.
 - (e) The failure of Contractor to comply with the provisions set forth in this Article shall constitute a Default and Breach of this Contract and the County shall enforce the Default in accordance with the provisions set forth in the General Conditions, Article 12.
31. **Audit Right and Retention Records:** County shall have the right to audit the books, records, and accounts of awarded Vendor that are related to this contract. Vendor shall keep such books, records, and accounts as may be necessary in order to record complete and correct entries to the contract.

Vendor shall preserve and make available, at reasonable times for examination and audit by County, all financial records, supporting documents, statistical records, and any other documents pertinent to this agreement for the required retention period of the Florida Public Records Act (Chapter 119, Florida Statutes), if applicable, or if the Florida Public Records Act is not applicable, for a minimum period of three (3) years after termination of this contract. If any audit has been initiated and audit findings have not been resolved at the end of the retention period of three (3) years, whichever is longer, the books, records and accounts shall be retained until resolution of the audit findings. If the Florida Public Records Act is determined by County to be applicable to Vendor's records, Vendor shall comply with all requirements thereof; however, no confidentiality or nondisclosure requirement of either federal or state law shall be violated by Vendor. Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for County's disallowance and recovery of any payment upon such entry.

32. **Procurement Code:** The entire chapter of the Broward County Procurement Code can be obtained from the Purchasing Division's website at: www.broward.org/purchasing.
33. **Ownership of Documents:** All finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs, specifications and reports prepared or provided by Vendor in connection with this contract shall become the property of County, whether the Project for which they are made is completed or not, and shall be delivered to Contract Administrator within fifteen (15) days of the receipt of the written notice of termination. If applicable, County may withhold any payments then due to Vendor until Vendor complies with the provisions of this section.
34. **State of Florida Division of Corporations Requirements:** It is the Vendor's responsibility to comply with all state and local business requirements. All corporations and partnerships must have the authority to transact business in the State of Florida and be in good standing with the Florida Secretary of State. For further information, contact the Florida Department of State, Division of Corporations.
- The County will review the Vendor's business status based on the information provided in response to this solicitation. If the Vendor is an out-of-state or foreign corporation or partnership, the Vendor must obtain the authority to conduct business in the State of Florida. Corporations or partnerships that are not in good standing with the Florida Secretary of State at the time of a submission to this solicitation may be deemed non-responsible.
- If successful in obtaining a contract award under this solicitation, the Vendor must remain in good standing throughout the contractual period of performance.
35. **Cone of Silence Ordinance (Invitations For Bids):** In accordance with Cone of Silence Ordinance, Section 1-266, Broward County Code of Ordinances, provides that after the advertisement of the solicitation, potential Vendors and their representatives are substantially restricted from communicating regarding the solicitation with the County Administrator, Deputy County Administrator, Assistant County Administrator, Assistants to the County Administrator, their respective support staff, or any or any staff person that is to evaluate or recommend selection in this solicitation process.
- (a) For Invitations for Bids, the Cone of Silence shall be in effect for staff involved in the award decision process at the time of the solicitation advertisement. The Cone of Silence shall be in effect for the Board of County Commissioners and their staff upon bid opening for the solicitation.
- (b) The Cone of Silence terminates when the County Commission or other awarding authority takes action which ends the solicitation.
- (c) Any violations of this ordinance by any representative of the Vendor, including owner, employee, consultant, lobbyist, or actual or potential subcontractor or subconsultant may be reported to the County's Office of Professional Standards. If there is a determination of violation, a fine shall be imposed against the Vendor as provided in the County Code of Ordinances. Additionally, a determination of violation shall render any award to a Vendor who is found to have violated the Ordinance voidable, at the sole discretion of the Board of County Commissioners.
36. **Contingency Fees:** By submission of this solicitation response, Vendor certifies that no contingency fees (sometimes known as a finder's fee) have been paid to any person or organization other than a bona-fide employee working solely for the Vendor to secure a contract made pursuant to this solicitation. Violation of this policy may result in termination of any resultant contract and/or possible debarment of the Vendor.
37. **Local Business Tax Receipt Requirements:** All Vendors maintaining a business address within Broward County must have a current Broward County Local Business Tax Receipt issued by the Broward County Records, Taxes and Treasury Division prior to recommendation for award. Failure to do so may result in your solicitation response being deemed non-responsive. For further information on obtaining or renewing your firm's Local

Business Tax Receipt, contact the Records, Taxes and Treasury Division at (954) 357-6200.

38. **Battery Disposal:** The Vendor must deliver, furnish, recycle and dispose of all battery products in accordance with all applicable local, state and federal laws.
39. **Dun & Bradstreet Report Requirement:** The County may review the Vendor's rating and payment performance to assist in determining a Vendor's responsibility when being evaluated for a contract award.
40. **Code Requirements:** The Vendor and his or her subcontractors on this project must be familiar with all applicable Federal, State, County, City and Local Laws, Regulations or Codes and be governed accordingly as they will apply to this project and the actions or operations of those engaged in the work or concerning materials used. Contractor shall ask for and receive any required inspections.
41. **Special Notice:** In accordance with OSHA Regulation 29 CFR 1926.1101(k) (2), Vendors are notified of the presence of asbestos containing material and/or presumed asbestos containing material at some Broward County locations.
42. **Samples:** Samples or drawings, when required, shall be free of charge. If not mutilated or destroyed in the examination, Vendor will be notified to remove same at their expense. If samples are not removed within thirty (30) calendar days after written notice to the Vendor, they shall be considered as abandoned and the County shall have the right to dispose of them as its own property.
43. **Vendor Responsibilities:** Unless otherwise specified, Vendor will be responsible for the provision, installation and performance of all equipment, materials, services, etc. offered in their response. Vendor is in no way relieved of the responsibility for the performance of all equipment furnished, or of assuring the timely delivery of materials, equipment, etc. even though it is not of their own manufacture.
44. **Vendor Evaluation:** The Contract Administrator will document the Vendor's performance by completing a Performance Evaluation Form. A blank Performance Evaluation Form may be viewed at : broward.org/Purchasing/documents/vendorperformanceevaluationrequirements.pdf.
An interim performance evaluation of the successful Vendor may be submitted by the Contract Administrator during completion of the Project. A final performance evaluation shall be submitted when the Request for Final Payment to the Vendor is forwarded for approval. In either situation, the completed evaluation(s) shall be forwarded to the Director of Purchasing who shall provide a copy to the successful Vendor upon request. Said evaluation(s) may be used by the County as a factor in considering the responsibility of the Vendor for future solicitations.
45. **Warranties and Guarantees:** The Vendor shall obtain all manufacturers' warranties and guarantees of all equipment and materials required by this solicitation and any resultant orders in the name of the Board and shall deliver same to point of delivery.
46. **"Or Equal" Clause:** Whenever a material, article or piece of equipment is identified in the solicitation documents, including plans and specifications, by reference to manufacturers' or vendors' names, trade names, catalog numbers, or otherwise, any such reference is intended merely to establish a standard; and, unless it is followed by the words "no substitution is permitted" because of form, fit, function and quality, any material, article, or equipment of other manufacturers and vendors which will perform or serve the requirements of the general design will be considered equally acceptable provided the materials, article or equipment so proposed is, in the sole opinion of the County, equal in substance, quality, and function. The decision of the equivalent shall be determined in a reasonable manner and at the sole discretion of the County.

Supplier: **Tetra Tech, Inc**

Insurance Requirements: (Refer to the Insurance Requirement Form)

- A. The insurance requirement designated in the **Insurance Requirement Form** indicates the minimum coverage required for the scope of work, as determined by the Risk Management Division. Vendor shall provide verification of compliance such as a Certificate of Insurance, or a letter of verification from the Vendor's insurance agent/broker, which states the ability of the Vendor to meet the requirements upon award. The verification must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes. Final award shall be subject to receipt and acceptance by the County of proof of meeting all insurance requirements of the bid.
- B. Without limiting any of the other obligations or liabilities of Vendor, Vendor shall provide, pay for, and maintain on a primary basis in force until all of its work to be performed under this Contract has been completed and accepted by County (or for such duration specified), at least the minimum insurance coverage and limits set forth in the Insurance Requirement Form under the following conditions listed below. If a limit or policy is not indicated on Insurance Requirement certificate by a checked box, it is not required as a condition of this contract.
1. Commercial General Liability with minimum limits per occurrence, combined single limit for bodily injury and property damage, and when indicated a minimum limit per aggregate. County is to be expressly included as an Additional Insured in the name of Broward County arising out of operations performed for the County, by or on behalf of Vendor, or acts or omissions of Vendor in connection with general supervision of such operation. If Vendor uses a subcontractor, then Vendor shall require that subcontractor names County as an Additional Insured.
 2. Business Automobile Liability with minimum limits per occurrence, combined single limit for bodily injury and property damage. Scheduled autos shall be listed on Vendor's certificate of insurance. County is to be named as an additional insured in the name of Broward County.

Note: Insurance requirements for Automobile Liability are not applicable where delivery will be made by a third party carrier. All vendors that will be making deliveries in their own vehicles are required to provide proof of insurance for Automobile Liability and other pertinent coverages as indicated on the Insurance Requirement certificate, prior to award. If deliveries are being made by a third party carrier, other pertinent coverages listed on the Insurance Requirement certificate are still required.

Vendor should indicate how product is being delivered:

Company Vehicle: Yes or No

If Common Carrier (indicate carrier):

Other: **Car Rentals and Personal Cars**

3. Workers' Compensation insurance to apply for all employees in compliance with Chapter 440, the "Workers' Compensation Law" of the State of Florida and all applicable federal laws. The policy must include Employers' Liability with minimum limits each accident. If any operations are to be undertaken on or about navigable waters, coverage must be included for the U.S. Longshoremen & Harbor Workers Act and Jones Act.

4. Excess Liability/Umbrella Insurance may be used to satisfy the minimum liability limits required; however, the annual aggregate limit shall not be less than the highest "each occurrence" limit for the underlying liability policy. Vendor shall endorse County as an Additional Insured unless the policy provides coverage on a pure/true "Follow-form" basis.
5. Builder's Risk or equivalent coverage (such as Property Insurance or Installation Floater) is required as a condition precedent to the issuance of the Second Notice to Proceed for projects involving but not limited to: changes to a building's structural elements, work compromising the exterior of the building for any extended period of time, installation of a large single component, or remodeling where the cost of remodeling is 20% or more the value of the property. Coverage shall be, "All Risks" Completed Value form with a deductible not to exceed Ten Thousand Dollars (\$10,000.00) each claim for all perils except for wind and flood.
6. For the peril of wind, the Vendor shall maintain a deductible that is commercially feasible which does not exceed five percent (5%) of the value of the Contract price. Such Policy shall reflect Broward County as an additional loss payee.
7. For the peril of flood, coverage must be afforded for the lesser of the total insurable value of such buildings or structures, and the maximum amount of flood insurance coverage available under the National Flood Program. Vendor shall maintain a deductible that is commercially feasible and does not exceed five percent (5%) of the value of the Contract price. Such Policy shall reflect Broward County as an additional loss payee.
8. The County reserves the right to provide Property Insurance covering the Project, materials, equipment and supplies intended for specific installation in the Project while such materials, equipment and supplies are located at the Project site, in transit, or while temporarily located away from the Project site. This coverage will not cover any of the Vendor's or subcontractors' tools, equipment, machinery or provide any business interruption or time element coverage to the Vendor(s).
9. If the County decides to purchase Property Insurance or provide for coverage under its existing insurance policy for this Project, then the insurance required to be carried by the Vendor may be modified to account for the insurance being provided by the County. Such modification may also include execution of Waiver of Subrogation documentation.
10. In the event that a claim occurs for this Project and is made upon the County's insurance policy, for other than a windstorm, Vendor will pay at least Ten Thousand Dollars (\$10,000.00) of the deductible amount for such claim.
11. Waiver of Occupancy Clause or Warranty: Policy must be specifically endorsed to eliminate any "Occupancy Clause" or similar warranty or representation that the building (s), addition(s) or structure(s) in the course of construction shall not be occupied without specific endorsement of the policy. The Policy must be endorsed to provide that the Builder's Risk coverage will continue to apply until final acceptance by County.
12. Pollution Liability or Environmental Impairment Liability: including clean-up costs, with minimum limits per claim, subject to a maximum deductible per claim. Such policy shall remain in force for the minimum length of time indicated, include an annual policy aggregate and name Broward County as an Additional Insured. Vendor shall be responsible for all deductibles in the event of a claim.
13. Professional Liability Insurance with minimum limits for each claim, subject to a maximum deductible per claim. Such policy shall remain in force for the minimum length

of time indicated. Vendor shall notify County in writing within thirty (30) days of any claim filed or made against its Professional Liability Insurance policy. Vendor shall be responsible for all deductibles in the event of a claim. The deductible shall be indicated on the Vendor's Certificate of Insurance.

- C. Coverage must be afforded on a form no more restrictive than the latest edition of the respective policy form as filed by the Insurance Services Office. If the initial insurance expires prior to the completion and acceptance of the Work, renewal certificates shall be furnished upon expiration. County reserves the right to obtain a certified copy of any insurance policy required by this Section within fifteen (15) calendar days of a written request by County.
- D. Notice of Cancellation and/or Restriction: the policy(ies) must be endorsed to provide Broward County with at least thirty (30) days' notice of cancellation and/or restriction.
- E. The official title of the Certificate Holder is Broward County. This official title shall be used in all insurance documentation.
- F. Right to revise or reject. The County reserves the right, but not the obligation, to review and revise the insurance requirements at any time, not limited to deductibles, limits, coverage and endorsements.

Supplier: **Tetra Tech, Inc**

VENDOR ACKNOWLEDGEMENT

This form must be completed and submitted with the Vendor's submittal. Failure to comply will deem vendor non-responsive.

- 1. LEGAL BUSINESS NAME: **Tetra Tech, Inc.**
- 2. FEDERAL EMPLOYER I.D. NO. (FEIN): **95-4148514**
- 3. DUN AND BRADSTREET NO.: **178599221**
- 4. DOING BUSINESS AS/ FICTITIOUS NAME (if applicable):
- 5. WEBSITE ADDRESS (if applicable): **tetratech.com**
- 6. PRINCIPAL PLACE OF BUSINESS ADDRESS: **2301 Lucien Way, Suite 120, Maitland, FL 32751**
- 7. TELEPHONE NO.: **321-441-8518** FAX NO.: **321-441-8501**
- 8. TYPE OF BUSINESS (check appropriate box):
 - Corporation (Specify the State of Incorporation):
 - Sole Proprietor Limited Liability Corporation Limited Partnership (LLC)
 - General Partnership (State and County filed in)
 - Other – Specify
- 9. AUTHORIZED CONTACT FOR YOUR FIRM:

Name: Betty Kamara	Title: Contract Administrator
Telephone Number: 321-441-8518	Fax Number: 321-441-8501
E-mail: betty.kamara@tetratech.com	
- 10. LIST ALL ADDENDA ACKNOWLEDGED:
None

BY EXECUTING THIS ACKNOWLEDGEMENT FORM, VENDOR ACKNOWLEDGES AND ACCEPTS ALL GENERAL CONDITIONS AND SPECIAL INSTRUCTIONS.

Jonathan Burgiel	Vice President/Operations Manager	
*AUTHORIZED SIGNATURE/NAME	TITLE	DATE

* I certify that I am authorized to sign this solicitation response on behalf of the Vendor as indicated in Certificate as to Corporate Principal, designation letter by Director/Corporate Officer, or other business authorization to bind on behalf of the Vendor. As the Vendor's authorized representative, I attest that any and all statements, oral, written or otherwise, made in support of the Vendor's response, are accurate, true and correct. I also acknowledge that inaccurate, untruthful, or incorrect statements made in support of the Vendor's response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to Section 21.119 of the Broward County Procurement Code. I certify that the Vendor's response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same items/services, and is in all respects fair and without collusion or fraud. I also certify that the Vendor agrees to abide by all terms and conditions of this solicitation, acknowledge and accept all of the solicitation pages as well as any special instructions sheet(s).

VENDOR QUESTIONNAIRE

The completed Vendor Questionnaire should be submitted with the solicitation response but must be submitted within three business days of County's request. Failure to provide the completed questionnaire timely may result in the Vendor being deemed non-responsive. **If a response requires additional information, the Vendor should attach/upload a written detailed response; each response should be numbered to match the question number.** The completed questionnaire and attached responses will become part of the procurement record. It is imperative that the person completing the Vendor Questionnaire be knowledgeable about the proposing Vendor's business and operations.

1. LIST NAME AND TITLE OF EACH PRINCIPAL, OWNER, OFFICER, AND MAJOR SHAREHOLDER:
 - a) See list of Officers and Directors in proposal
 - b)
 - c)
 - d)

2. Specify the type of services or commodities your firm offers:
Specialized management consulting, emergency management and community resilience, response and recovery services, financial recovery services, emergency planning and training, and technical engineering services related to water, infrastructure, energy, water resources, and the environment.

3. How many years has your firm been in business while providing the services and/or products offered within this solicitation? 15

4. Is your firm's business regularly engaged in and routinely selling the product(s) or services offered within this solicitation? Yes No

5. Does your firm affirm that it is currently authorized by the manufacturer as a dealer/seller of the product(s) offered herein, and warranty offered is the manufacturer's warranty with Broward County recorded as the original purchaser? The County reserves the right to verify prior to a recommendation of award. Yes No
 N/A (if service)

6. Has your firm ever failed to complete any services and/or delivery of products during the last three (3) years? If yes, specify details in an attached a written response. Yes No

7. Is your firm or any of its principals or officers currently principals or officers of another organization? If yes, specify details in an attached a written response. Yes No

8. Have any voluntary or involuntary bankruptcy petitions been filed by or against your firm, its parent or subsidiaries or predecessor organizations during the last three years? If yes, specify details in an attached a written response. Yes No

9. Has your firm, its principals, officers or predecessor organization(s) been debarred or suspended by any government entity within the last three years? If yes, specify details in an attached a written response. Yes No

10. Has your firm's surety ever intervened to assist in the completion of a contract or have Performance and/or Payment Bond claims been made to your firm or its predecessor's sureties during the last three years? If yes, specify details in an attached a written response, including contact information for owner and surety company. Yes No

- Vendor Name:**

11. If requested, will your firm extend the same price, terms and conditions to other governmental entities during the period covered by this contract? Yes No

12. Would your firm accept a Visa credit card as payment from Broward County? Yes No

13. Living Wage solicitations only: In determining what, if any, fiscal impacts(s) are a result of the Ordinance for this solicitation, provide the following for informational purposes only. Response is not considered in determining the award of this contract. Living Wage had an effect on the pricing. Yes No N/A
If yes, Living Wage increased the pricing by % or decreased the pricing by %.

14. Non-Collusion Certification: Vendor shall disclose, to their best knowledge, any Broward County officer or employee, or any relative of any such officer or employee as defined in Section 112.3135 (1) (c), Florida Statutes, who is an officer or director of, or has a material interest in, the Vendor's business, who is in a position to influence this procurement. Any Broward County officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. Failure of a Vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the Broward County Procurement Code.

Select One:

- Vendor certifies that this offer is made independently and free from collusion; or
- Vendor is disclosing names of officers or employees who have a material interest in this procurement and is in a position to influence this procurement. Vendor must include a list of name(s), and relationship(s) with its submittal.

Questions 15 - 18 are only applicable to service contracts or a construction contracts (repair, maintain or furnish and install) solicitations:

15. What similar on-going contracts is your firm currently working on? If additional space is required, provide on separate sheet.
Ongoing debris monitoring projects:
Lake County, California - 2015 Valley Fire
Calaveras County, California - 2015 Butte Fire
City of Houston, Texas - 2016 Severe Storms and Flooding
Montgomery County, Texas - 2016 Severe Storms and Flooding
Fort Bent County, Texas - 2016 Severe Storms and Flooding
Brazoria County, Texas - 2016 Severe Storms and Flooding

16. Has your firm completely inspected the project site(s) prior to submitting response? Yes No
17. Will your firm need to rent or purchase any equipment for this contract? If yes, please specify details in an attached a written response. Yes No
18. What equipment does your firm own that is available for this contract?
See Section 5: Resources of the response proposal

Vendor Name: Tetra Tech, Inc.

19. Provide at least three (3) individuals, corporations, agencies, or institutions for which your firm has completed work of a similar nature or in which your firm sold similar commodities in the past three (3) years. Contact persons shall have personal knowledge of the referenced project/contract. **Only one (1) Broward County Board of County Commissioners agency reference may be submitted.** If any of the following references are inaccessible or not relevant, additional references may be requested by the County.

Reference No. 1:

Scope of Work: Comprehensive disaster recovery services
Contract/Project Title: Disaster Debris Program Management

Agency: **City of Miramar, Florida**
Contact Name/Title: **Ralph Trapani, Solid Waste Manager, Public Works Dept.**
Contact Telephone: **954-883-6832** Email: **ratrapani@miramarfl.gov**
Contract/Project Dates (Month and Year): **October 2005 - June 2006**
Contract Amount: **\$8,909,115.00**

Reference No. 2:

Scope of Work: **Debris monitoring services**
Contract/Project Title: **Disaster Debris Program Management**
Agency: **St. John the Baptist Parish, Louisiana**
Contact Name/Title: **Natalie Romottom, Parish President**
Contact Telephone: **985-652-9569** Email: **robottom@sjbparish.com**
Contract/Project Dates (Month and Year): **September 2012 - July 2013**
Contract Amount: **\$1,413,154.00**

Reference No. 3:

Scope of Work: **Debris monitoring services**
Contract/Project Title: **Disaster Debris Program Management**
Agency: **Dorchester County, South Carolina**
Contact Name/Title: **Mario Formisano, Emergency Management Director**
Contact Telephone: **843-832-0341** Email: **MFormisano@dorchestercounty.net**
Contract/Project Dates (Month and Year): **March 2014 - April 2014**
Contract Amount: **\$537,788.91**

Name of Vendor: Tetra Tech, Inc.

Litigation History Requirement:

- A. The County will consider a Vendor's litigation history information in its review and determination of responsibility. All Vendors are required to disclose to the County all "material" cases filed or resolved in the three (3) year period ending with the solicitation response due date, whether such cases were brought by or against the Vendor, any parent or subsidiary of the Vendor, or any predecessor organization. If the Vendor is a joint venture, the information provided should encompass the joint venture (if it is not newly-formed for purposes of responding to the solicitation) and each of the entities forming the joint venture.
- B. For each material case, the Vendor is required to provide all information identified, on the Litigation History Form.
- C. For purpose of this disclosure requirement, a "case" includes lawsuits, administrative hearings and arbitrations. A case is considered to be "material" if it relates, in whole or in part, to any of the following:
 - 1. A similar type of work that the Vendor is seeking to perform for the County under the current solicitation;
 - 2. An allegation of negligence, error or omissions, or malpractice against the Vendor or any of its principals or agents who would be performing work under the current solicitation;
 - 3. A Vendor's default, termination, suspension, failure to perform, or improper performance in connection with any contract;
 - 4. The financial condition of the Vendor, including any bankruptcy petition (voluntary and involuntary); or
 - 5. A criminal proceeding or hearing concerning business-related offenses in which the Vendor or its principals (including officers) were/are defendants.
- D. Notwithstanding the descriptions listed in paragraphs 1 – 5 above, a case is not considered to be "material" if the claims raised in the case involve only garnishment, auto negligence, personal injury, or a proof of claim filed by the Vendor.
- E. A Vendor is also required to disclose to the County any and all case(s) that exist between the County and any of the Vendor's subcontractors/subconsultants proposed to work on this project.
- F. Failure to disclose any material case, or to provide all requested information in connection with each such case, may result in the Vendor being deemed non-responsive. Prior to making such determination, the Vendor will have the ability to clarify the submittal and to explain why an undisclosed case is not material.

LITIGATION HISTORY FORM

The completed and signed form(s) should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes

- There are no material cases for this Vendor; or
- Material Case(s) are disclosed below:

Is this for a: (check type) <input type="checkbox"/> Parent, <input type="checkbox"/> Subsidiary, or <input type="checkbox"/> Predecessor Firm?	If Yes, Name of Parent/Subsidiary/Predecessor: or No <input type="checkbox"/>
Party	Vendor is Plaintiff <input type="checkbox"/> Vendor is Defendant <input type="checkbox"/>
Case Number, Name, and Date Filed	
Name of Court or other tribunal	
Type of Case	Bankruptcy <input type="checkbox"/> Civil <input type="checkbox"/> Criminal <input type="checkbox"/> Administrative/Regulatory <input type="checkbox"/>
Claim or Cause of Action and Brief description of each Count	
Brief description of the Subject Matter and Project Involved	
Disposition of Case (Attach copy of any applicable Judgment, Settlement Agreement and Satisfaction of Judgment.)	Pending <input type="checkbox"/> Settled <input type="checkbox"/> Dismissed <input type="checkbox"/> Judgment Vendor's Favor <input type="checkbox"/> Judgment Against Vendor <input type="checkbox"/> If Judgment Against, is Judgment Satisfied? Yes <input type="checkbox"/> No <input type="checkbox"/>
Opposing Counsel	Name: Email: Telephone Number:

Vendor Name: Tetra Tech, Inc.

Supplier: **Tetra Tech, Inc**

DOMESTIC PARTNERSHIP REQUIREMENTS CERTIFICATION FORM

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

The Domestic Partnership Act, Section 16 ½ -157, Broward County Code of Ordinances, as amended, requires all Vendors contracting with the County, in an amount over \$100,000 provide benefits to Domestic Partners of its employees, on the same basis as it provides benefits to employees spouses, with certain exceptions as provided by the Ordinance.

For all submittals over \$100,000.00, the Vendor, by virtue of the signature below, certifies that it is aware of the requirements of Broward County's Domestic Partnership Act, Section 16-½ -157, Broward County Code of Ordinances, as amended; and certifies the following: **(check only one below)**.

- 1. The Vendor currently complies with the requirements of the County's Domestic Partnership Act and provides benefits to Domestic Partners of its employees on the same basis as it provides benefits to employees' spouses.
- 2. The Vendor will comply with the requirements of the County's Domestic Partnership Act at time of contract award and provide benefits to Domestic Partners of its employees on the same basis as it provides benefits to employees' spouses.
- 3. The Vendor will not comply with the requirements of the County's Domestic Partnership Act at time of award.
- 4. The Vendor does not need to comply with the requirements of the County's Domestic Partnership Act at time of award because the following exception(s) applies: **(check only one below)**.
 - The Vendor employs less than five (5) employees.
 - The Vendor is a governmental entity, not-for-profit corporation, or charitable organization.
 - The Vendor is a religious organization, association, society, or non-profit charitable or educational institution.
 - The Vendor does not provide benefits to employees' spouses.
 - The Vendor provides an employee the cash equivalent of benefits. (Attach an affidavit in compliance with the Act stating the efforts taken to provide such benefits and the amount of the cash equivalent).
 - The Vendor cannot comply with the provisions of the Domestic Partnership Act because it would violate the laws, rules or regulations of federal or state law or would violate or be inconsistent with the terms or conditions of a grant or contract with the United States or State of Florida. Indicate the law, statute or regulation (State the law, statute or regulation and attach explanation of its applicability).

Jonathan Burgiel
AUTHORIZED SIGNATURE/ NAME

Vice President/Operations Manager
TITLE

7/8/2016
DATE

Supplier: **Tetra Tech, Inc**

DRUG-FREE WORKPLACE REQUIREMENT CERTIFICATION FORM

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

Section 21.31.a. of the Broward County Procurement Code requires awards of all competitive solicitations requiring Board Award be made only to firms certifying the establishment of a drug free workplace.

The undersigned vendor hereby certifies that it will provide a drug-free workplace program by:

- (1) Publishing a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the offeror's workplace, and specifying the actions that will be taken against employees for violations of such prohibition;
- (2) Establishing a continuing drug-free awareness program to inform its employees about:
 - i. The dangers of drug abuse in the workplace;
 - ii. The offeror's policy of maintaining a drug-free workplace;
 - iii. Any available drug counseling, rehabilitation, and employee assistance programs; and
 - iv. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (3) Giving all employees engaged in performance of the contract a copy of the statement required by subparagraph (1);
- (4) Notifying all employees, in writing, of the statement required by subparagraph (1), that as a condition of employment on a covered contract, the employee shall:
 - i. Abide by the terms of the statement; and
 - ii. Notify the employer in writing of the employee's conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or of any state, for a violation occurring in the workplace NO later than five days after such conviction.
- (5) Notifying Broward County government in writing within 10 calendar days after receiving notice under subdivision (4) (ii) above, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;
- (6) Within 30 calendar days after receiving notice under subparagraph (4) of a conviction, taking one of the following actions with respect to an employee who is convicted of a drug abuse violation occurring in the workplace:
 - i. Taking appropriate personnel action against such employee, up to and including termination; or
 - ii. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency; and
- (7) Making a good faith effort to maintain a drug-free workplace program through implementation of subparagraphs (1) through (6).

Jonathan Burgiel

Vice President/Operations 7/8/16
Manager

AUTHORIZED SIGNATURE/ NAME

TITLE

DATE

Supplier: Tetra Tech, Inc

**EMPLOYMENT ELIGIBILITY VERIFICATION PROGRAM
REQUIREMENT CERTIFICATION FORM**

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

The State of Florida, Executive Order 11-116, requires Broward County, as a party to any State-funded contracts, to participate in the Employment Eligibility Verification administered by the U.S. Department of Homeland Security ("DHS"). Any Vendor performing work pursuant to the State funded contract issued by the County is required to use the E-Verify Program to confirm employment eligibility of its current and prospective employees. The undersigned Vendor hereby certifies that it will enroll and participate in the E-Verify Program, in accordance with the terms and conditions governing the use of the program by:

- (1) Verifying the employment eligibility of all persons employed during the contract term by the contractor to perform the work under this contract.
- (2) Enrolling in the E-Verify Program within thirty (30) days of the effective date of this contract by obtaining a copy of the "Edit Company Profile" page and make such record available to within seven days of request from the County.
- (3) Requiring all persons, including subcontractors, assigned by the Contractor to perform work under this contract to enroll and participate in the E-Verify Program within ninety (90) days of the effective date of this contract or within ninety (90) days of the effective date of the contract between the Contractor and the subcontractor, whichever is later. The Contractor shall obtain from the subcontractor a copy of the "Edit Company Profile" screen indicating enrollment in the E-Verify Program and make such record available to the County within seven calendar days from the County's request.
- (4) Displaying the notices supplied by DHS in a prominent place that is clearly visible to prospective employees and all employees who are to be verified through the system.
- (5) Initiate E-Verify verification procedures for new employees within 3 business days after the actual work start date of each new hire and thereafter shall respond appropriately to any additional requests from DHS or Social Security Administration (SSA).
- (6) Maintain records of its participation and compliance with the provisions of the E-Verify Program and make such records available within seven days of County's request.

Jonathan Burgiel	Vice President/Operations Manager	Tetra Tech, Inc.	7/8/2016
AUTHORIZED SIGNATURE/ NAME	TITLE	COMPANY	DATE

Supplier: Tetra Tech, Inc

SCRUTINIZED COMPANIES LIST REQUIREMENT CERTIFICATION FORM

The completed and signed form(s) should be returned with the Vendor’s submittal. If not provided with submittal, the Vendor must submit within three business days of County’s request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List or on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor, by virtue of the signature below, certifies that:

- a. The Vendor, owners, or principals are aware of the requirements of Section 287.135, Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List or on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
- b. The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List or on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
- c. If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List or on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Jonathan Burgiel	Vice President/Operations Manager	Tetra Tech, Inc.	7/8/2016
Authorized Signature/Name	Title	Vendor Name	Date

Supplier: **Tetra Tech, Inc**

SUBCONTRACTORS/SUBCONSULTANTS/SUPPLIERS REQUIREMENT FORM

The completed and signed form(s) should be returned with the Vendor’s submittal. If not provided with submittal, the Vendor must submit within three business days of County’s request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

- A. The Vendor shall submit a listing of all subcontractors, subconsultants and major material suppliers (firms), if any, and the portion of the contract they will perform. A major material supplier is considered any firm that provides construction material for construction contracts, or commodities for service contracts in excess of \$50,000, to the Vendor.
- B. If participation goals apply to the contract, only non-certified firms shall be identified on the form. A non-certified firm is a firm that is not listed as a firm for attainment of participation goals (ex. County Business Enterprise or Disadvantaged Business Enterprise), if applicable to the solicitation.
- C. This list shall be kept up-to-date for the duration of the contract. If subcontractors, subconsultants or suppliers are stated, this does not relieve the Vendor from the prime responsibility of full and complete satisfactory performance under any awarded contract.
- D. After completion of the contract/final payment, the Vendor shall certify the final list of non-certified subcontractors, subconsultants, and suppliers that performed or provided services to the County for the referenced contract.

If none, state “none” on this form. Use additional sheets as needed. Vendor should scan and upload any additional form(s) in BidSync.

- 1. Subcontracted Firm’s Name: **HDR, Inc.**
 Subcontracted Firm’s Address: **315 E. Robinson Street, Suite 400, Orlando, FL 32801**
 Subcontracted Firm’s Telephone Number: **(407) 420-4200**
 Contact Person’s Name and Position: **Chuck McLendon, Associate Vice President - Resources**
 Contact Person’s E-Mail Address: **charles.mclendon@hdrinc.com**
 Estimated Subcontract/Supplies Contract Amount: **TBD as services are on an as needed basis**
 Type of Work/Supplies Provided: **Consulting services**

- 2. Subcontracted Firm’s Name:
 Subcontracted Firm’s Address:
 Subcontracted Firm’s Telephone Number:
 Contact Person’s Name and Position:
 Contact Person’s E-Mail Address:
 Estimated Subcontract/Supplies Contract Amount:
 Type of Work/Supplies Provided:

I certify that the information submitted in this report is in fact true and correct to the best of my knowledge.

Jonathan Burgiel	Vice President/Operations Manager	Tetra Tech, Inc.	07/08/2016
Authorized Signature/Name	Title	Vendor Name	Date