

City of Central, LA

Office of the Mayor

Request for Proposal for Disaster Debris Monitoring and Management Services

Prepared for: City of Central

Prepared by: DebrisTech, LLC
925 Goodyear Blvd
Picayune, MS 39466

Contact: Brooks Wallace, P.E.
601-916-1113 (cell)
brooks@debristech.com

RFP Date: August 22, 2016 12:00 P.M.



DEBRISTECH

ELECTRONIC DEBRIS MANAGEMENT SYSTEM

August 22, 2016

City of Central Office of the Mayor
13421 Hooper rd, Suite 8
Central, LA 70818

Request for Proposal for Disaster Debris Monitoring and Management Services

DebrisTech, LLC is a full service debris management firm which is built upon a foundation of experience, knowledge and technology. The team at DebrisTech is comprised of individuals with direct and relevant experience in the field of disaster response and recovery, including disaster debris monitoring. Our principal engineers come to the table with a combined half century of experience in dealing with FEMA, disasters, debris removal, and the necessary management that has to take place within a parish or city to navigate the after affects of any kind of storm. In addition, our integral but non-human part of our team, is an Electronic Debris Management System which incorporates cutting edge technology and industry first process automation which serves as a real time audit system for all debris removal operations. The core of our operations are built upon streamlining the recovery process while automating the data collection for reimbursement purposes, ultimately ensuring the entire process operates quickly and efficiently.

Following the aftermath of the 2013 Moore, Oklahoma F5 Tornadoes, FEMA created a Best Practices video that highlighted our Firm's work in that area. One FEMA Official described our operation as "The most effective debris monitoring operation I've seen in the field and believe this could be a model for debris monitoring in the future." The complete video is available for online viewing at: www.fema.gov/media-library/assets/videos/83001

While DebrisTech is founded and operates out of Picayune, MS, local offices can be obtained to provide the quick face to face interaction that is so often needed in times of recovery. Brooks Wallace, the creator and founder of DebrisTech, and Dennis Cruthirds, a seasoned and highly capable project manager, will be handling the day to day requirements of your project as representatives of DebrisTech.

Our most recent experience in our home state of Mississippi, includes Marshall County (January 2016), Benton County (January 2016), Marion County (December 2014), City of Tupelo (May 2014), City of Pearl (May 2014), Itawamba County (May 2014), and Winston County (May 2014). We have provided services in your state in Tangipahoa Parish(march 2016), Caldwell Parish(June 2016) and we are currently servicing Tangipahoa Parish for the recent flooding. Local hiring is a company policy to all monitoring positions. DebrisTech is prepared to provide a single source solution for Debris Removal Monitoring Services upon acceptance of this proposal. Please feel free to contact me directly on my cell phone, 601-916-1113, if there should be any further information required.

Thank you,

Brooks R. Wallace, P.E.
Principal

Protecting Communities. Leading Recovery.

925 Goodyear Boulevard ~ Picayune, Mississippi 39466 ~ www.DebrisTech.com

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Recent Debris Monitoring Experience



August 2016 Floods

Tangipahoa Parish, LA

Inspection and Monitoring of flood generated debris removal and disposal.

- 100,000 CY of Debris Estimated to be Monitored and Documented
- White Good Removal Documentations
- Multi- Jurisdictional Documentation
- Budget - TBD
- August 2016 - Present

March 2016 Floods

Tangipahoa Parish, LA

Inspection and Monitoring of flood generated debris removal and disposal.

- 10,000 CY of Debris Monitored and Documented
- White Good Removal Documentations
- Multi- Jurisdictional Documentation
- Budget - \$2200,000
- March 2016 - April 2106

March 2016 Floods

Caldwell Parish, LA

Inspection and Monitoring of flood generated debris removal and disposal.

- 2,000 CY of Debris Monitored and Documented
- White Good Removal Documentations
- Budget - \$40,000
- June 2016 - July 2016

December 2015 Tornado

Marshall County, MS

Inspection and Monitoring of flood generated debris removal and disposal.

- 68,000 CY of Debris Monitored and Documented
- Leaner and Hanger Removal Documentations
- Multi- Jurisdictional Documentation
- Budget - \$1,500,000
- January 2016 - March 2016

December 2015 Tornado

Benton, MS

Inspection and Monitoring of flood generated debris removal and disposal.

- 25,000 CY of Debris Monitored and Documented
- Leaner and Hanger Removal Documentations
- Multi- Jurisdictional Documentation
- Budget - \$550,000
- January 2016 - March 2016

December 2015 Tornado

Marion County, MS

Inspection and Monitoring of flood generated debris removal and disposal.

- 55,000 CY of Debris Monitored and Documented
- Leaner and Hanger Removal Documentations
- Multi- Jurisdictional Documentation
- Budget - \$1,100,000
- January 2015 - March 2015

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Recent Debris Monitoring Experience



April 2014 Tornado

Tupelo, MS

Inspection and Monitoring of flood generated debris removal and disposal.

- 290,000 CY of Debris Estimated to be Monitored and Documented
- Leaners and Hangers Removal Documentations
- Highly Populated Impacted Zone
- Budget- \$4,3500,000
- May 2014 - September 2014

April 2014 Tornado

Itawamba County, MS

Inspection and Monitoring of flood generated debris removal and disposal.

- 50,000 CY of Debris Estimated to be Monitored and Documented
- Leaners and Hangers Removal Documentations
- Large Rural Area
- Budget - \$1,200,000
- May 2014 - September 2014

May 2013 Tornado

Moore, OK

Inspection and Monitoring of flood generated debris removal and disposal.

- 172,000 Tons of Debris Estimated to be Monitored and Documented
- 300 Right- of -Entries Processed
- 10,400 Debris Loads Processed
- Highly Populated Impacted Zone
- Budget - \$18,200,000
- May 2013 - September 2013

February 2013 Tornado

Lamar County, MS

Inspection and Monitoring of flood generated debris removal and disposal.

- 31,000 CY of Debris Monitored and Documented
- 3 Disposal Sites in Operation
- Large Rural Area
- Budget - \$550,000
- February 2013 - March 2013

Hurricane Sandy - 2012

Nassau County, NY

Inspection and Monitoring of flood generated debris removal and disposal.

- 2,000,000 CY of Debris Monitored and Documented
- Highly Populated Area
- Multi- Jurisdictional Documentation
- Budget - \$90,000,000
- November 2012 - April 2013

Hurricane Katrina- 2005

Mississippi Gulf Coast

Inspection and Monitoring of flood generated debris removal and disposal.

- 6,000,000 CY of Debris Monitored and Documented
- Leaner and Hanger Removal Documentations
- Multi- Jurisdictional Documentation
- Budget - \$180,000,000
- September 2005 -

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Approach, Methodology, and Technology

What is DebrisTech?

The DebrisTech Electronic Debris Management System is modeled after a proven debris monitoring method that utilized a combination of hand written paper tickets, electronic databases, and a Geographic Information System (GIS). The DebrisTech system follows this same model, but replaces the hand written tickets with real-time data collection devices. **Paper receipts are still available but are no longer the primary record.** DebrisTech handheld devices and software add a new level of documentation and security features. The built-in automated fraud detection and audit tools greatly reduce the potential for fraudulent activities that might result in costly de-obligations. The system can also provide real-time access to agencies, such as FEMA or the Inspector General, so that auditors can begin their task early, rather than months or years later.

The DebrisTech Electronic Debris Management System provides real time access to all aspects of debris removal operations through the DebrisTech Central Information Database. Data is fed to the Central Information Database in real time by Debris Removal Monitors with DebrisTech devices. **Authorized users have access to many different reports summarizing daily, weekly, or monthly activity by truck number, subcontractor, Right of Entry number, etc.** This allows the debris management team to track the location and progress of debris removal crews, track the type and quantity of debris being collected, as well as fully document the loading and disposal locations, time, date, contractor, personnel and equipment used. The real time system eliminates the need for a large administrative staff to manually enter paper tickets. The DebrisTech System also has interactive mapping features that allow authorized users to view the exact pickup and disposal location for each debris ticket in real time. Clicking on the load's truck icon from the debris ticket list will show the pickup and disposal point for a specific load on a map. Clicking on the Truck icon in the header will show all loads in the current filter on a map. **This feature is especially useful when trying to determine where a specific truck or subcontractor is working or has worked, or simply to see where debris removal operations are taking place in real time.** These are but a few of the extensive Geographical Information System (GIS) capabilities present in the system.

Since September 2012, DebrisTech has been utilized by more than 15 government entities in five different disasters and produced an unprecedented quality of documentation of the debris removal operations in these affected areas. DebrisTech is a field proven system that will provide complete documentation of all debris removal activities. Specifically, DebrisTech was used in Mississippi following Hurricane Isaac, New York following Super-storm Sandy, Moore, Oklahoma following the devastating May 20, 2013 Tornadoes, and most recently, in **Tangipahoa Parish LA in March of this year.** DebrisTech's work in Moore, OK has drawn a lot of attention from State and Federal stakeholders. There have been numerous occasions where both FEMA and USACE personnel working in the region have made special trips to Moore to see the system in operation. DebrisTech's work in Moore, OK has also **prompted FEMA to create a Best Practices video** that highlights DebrisTech's technology and processes that are being utilized in the recovery process.



Approach, Methodology, and Technology Continued...

In response to an event as soon as authorities permit access, DebrisTech sends one of its Mobile Command and Communications Centers to the project area. Each Mobile Command and Communications Center is a specially equipped, self-contained unit that provides office and living quarters for its key team members. Each unit has computers, printers, badging and placarding systems, communication systems, training systems and an appropriate number of load and disposal site deployment kits. The load deployment kits typically contain 10 ruggedized tablets with MLPs, batteries, chargers, and ink cartridges and a number of preprinted tickets. The disposal site kits typically include 4 tablets with MLPs, remote scanners, laser printers, paper and printer cartridges. The kits are authorized for carry-on luggage and when necessary may travel ahead of the Mobile Command and Communications Center by airline. Instead of using the DebrisTech mobile command center the **DebrisTech local office location will be at 208 East Oak st. Amite, LA**

Deployment

In a typical deployment, DebrisTech's first responders arrive and assess the severity of the event and determine how many support personnel will be required to deploy and fully support the system. A typical support staff initially consists of one Technical Support Coordinator per deployment, one Technical Support Technician per disposal site and one Technician per 25 deployed devices. **The Support Coordinator is responsible for training the device operators and truck certification personnel.** Within 10-14 days of the initial deployment, the support staff can typically be reduced to one Support Coordinator and one Support Technician per 20 deployed devices.

Once a deployment is initiated, a new server instance of the DebrisTech Debris Management Database System is created and replicated at two or more locations. In the case of this contract, a third replication is set up for government use. One server instance is designated as the primary server and field devices submit their data to it through a secure channel over a common carrier. **The other servers are updated within minutes (usually seconds) and contain an exact copy of the records submitted by the field devices.** One of the secondary servers is designated as a failover server should the primary server fail, or be inaccessible due to a regional communications outage. DebrisTech's primary server location is served by a redundant primary fiber loop and its secondary and tertiary servers are geographically remote and served by different ISPs. Upon completion of a mission, a copy of all data collected is delivered to the Client in Microsoft Excel and PDF format. The data can also remain accessible through the DebrisTech Debris Management Database for any period as required by the contract.

Monitoring Methodology

Manual entry of data and the potential mistakes inherent are virtually eliminated with the DebrisTech process by using unique serialized debris ticket objects and an automated tracking system built around them. **The DebrisTech truck certification process registers authorized debris hauling vehicles and equipment by electronically registering debris contractor trucks, trailers and other hauling equipment.** Digital images of each truck, trailer or other hauling equipment is electronically linked to each individual registration/certification.



Approach, Methodology, and Technology Continued...

Each vehicle registration identifies the mission (contract number) and responsible governmental entity. Each registration record is permanently tied to the bar code that is affixed to the truck body or trailer body, supplying unique identification data for contractor vehicles and equipment. Standard forms of measure are utilized (e.g. feet and inches) to record the vehicle volume capacity utilizing industry standard equations in each registration record created. Optionally, each driver of each truck may be issued a unique bar coded DebrisTech ID that ties the driver to the load and/or haul vehicle. Each member of the certification team is issued a unique bar coded ID that is scanned and becomes part of the certification registration form. The member certifying the vehicle must also sign the electronic form, using the signature capture feature. **The DebrisTech System automatically rejects vehicles that are not certified** and associated with the current event and responsible government entity. Vehicles that need recertification (obscured bar code placards, changes in sideboards, spot check of capacities for random audits, etc.) can be compared electronically and automatically to the audit tables and other CQC audit records of previous certifications and registrations. **Certification records are available online and in downloadable and printable form for authorized users.** Each monitor is also issued a unique identification badge that contains the employee identification barcode and Project ID barcode. Like the other barcodes, they are used to easily mark the ticket with the identity of the monitor or inspector that collects and/or reviews the data but they are not intended nor can they be used to circumvent the signature capture requirement. **Each ticket has a barcode that is scanned using specially configured iPads.** A limited number of these secure ticket objects are issued to monitors and inspectors. Without a physical ticket no electronic tickets can be created. This is the first of a three factor ticket authentication system. The uniquely configured iPad is the second factor. The apps used for collecting data are registered individually to unique serialized iPad IDs and will not function on unauthorized devices. These iPads in most cases are issued to individuals, but a third factor, a literal signature by the monitor or inspector is required at each data collection point through a built-in signature capture feature of the iPad. This factor reminds the submitter, that they are personally responsible for the accuracy of the data submitted.

DebrisTech understands the importance of utilizing local resources following a natural disaster. It is DebrisTech's policy to hire as many local workers as are available in the project area to fill the field coordinator, load monitor and tower monitor positions. DebrisTech will bring in an experienced management team to get the project started and make all of the local hires

The DebrisTech system fully complies with the Specifications outlined in Section 10 Item E, of RFP# 14-3300. A more comprehensive technical paper describing how the DebrisTech system exceeds these specifications is available upon request.

DebrisTech Personnel



Brooks Wallace, P.E.

Education

Bachelor of Science Civil
Engineering
University of Mississippi, 2002

Positions

- Founder/Creator/ Contract
Manager
DebrisTech
2010 - Present
- Principal Engineer
Dungan Engineering, PA
2002 - Present

Jeff J. Dungan, P.E., P.L.S.

Education

Bachelor of Science Civil
Engineering
Mississippi State University, 1988

Positions

- Principal & Owner
DebrisTech
2010 - Present
- Principal Engineer
Dungan Engineering, P.A.
1993 - Present

Ryan Holmes, P.E.

Education

Bachelor of Science Civil
Engineering
University of Mississippi, 2004

Positions

- Principal & Owner
DebrisTech
2012 - Present
- Principal Engineer
Dungan Engineering, P.A.

J. Lee Mock, P.E., P.L.S.

Positions

- Principal & Owner
DebrisTech
2010 - Present
- Principal Engineer
Dungan Engineering, P.A.
1994 - Present

H. Les Dungan, III, P.E., P.L.S.

Education

Bachelor of Science Civil
Engineering
Mississippi State University, 1987

Positions

- Principal & Owner
DebrisTech
2010 - Present
- Principal Engineer
Dungan Engineering, P.A.

Dennis Cruthirds

Training

- FEMA certified through Emergency
Management Institute
- IS-00019.15 FEMA EEO Supervisor
Course
 - IS-00020.15 Diversity Awareness
 - IS-00546.a Continuity of Operations
Awareness Course
 - IS-00548 Continuity of Operations
Manager
 - IS-00632.a Introduction to Debris
Operations
 - IS-00634 Introduction to FEMA's
Public Assistance Program

Positions

- Project Manager
DebrisTech
2012 - Present

Recent Debris Monitoring References



Mayor Jason Shelton

Tupelo, MS

- Scope of Work- Debris Monitoring and Grant Management
- Phone- 662-841-6513
- Email- jason.shelton@tupeloms.gov
- Address- 71 East Troy st. Tupelo, MS
- May 2014 - August 2014

Stan Drake

Assistant City Manager

Moore, OK

- Scope of Work- Debris Monitoring
- Phone- 405- 793-5200
- Email-stand@cityofmoore.com
- Address- 301 N Broadway, Moore, OK 73160
- May 2013- September 2013

Tim Kelly, Debris Removal

Command Center Leader

Nassau County, NY

- Scope of Work- Debris Monitoring
- Phone- 631- 374- 9664
- Email- tkelly@nassaucountyny.gov
- Address- 1194 Prospect Avenue, Westbury, NY 11590
- May 2014 - August 2014

Jim LaCarrubba,

Commissioner, Public Works

City of Long Beach, New York

- Scope of Work- Debris Monitoring and Grant Management
- Phone- 516-431-1011
- Email- JLaCarrubba@longbeachny.org
- Address- 1 West Chester Street, Long Beach, NY 11561
- October 2012 - April 2012

Justin Battles

Assistant City Manager

Mustang OK

- Scope of Work- Debris Monitoring
- Phone- 405-376 7700
- Email- jbattles@cityofmustang.org
- Address- 1501 N. Mustang Road, Mustang, OK 73064
- May 2013, January 2016

Adrain Lumpkin

County Administrator

Pearl River County, MS

- Scope of Work - Debris Monitoring
- Phone - 601-403-2300
- Email- alumpkin@pearlrivercounty.net
- Address- 200 South Main st, Poplaville, MS
- September 2012

Attachment A

Insurance Requirements for Request for Proposal for Monitoring Services for Disaster Street-Clearing, Debris Collection, Removal, Processing, Disposal, and Management Services

Solicitation No: 2016-002

CONSULTANT'S AND SUB-CONSULTANT'S INSURANCE: Prime consultant and any sub-consultants shall carry and maintain at least the minimum insurance as specified below until completion and acceptance of the work covered by this contract. Prime consultant shall not commence work under this contract until certificates of insurance have been approved by the City. Insurance companies listed on certificates must have industry rating of A-, Class VI or higher, according to Best's Key Rating Guide. Prime consultant is responsible for assuring that its sub-consultants meet these insurance requirements.

- A. Commercial General Liability on an occurrence basis:

General Aggregate	\$2,000,000
Each Occurrence	\$1,000,000

- B. Business Auto Policy
Any Auto; or Owned, Non-Owned & Hired:

Combined Single Limit	\$1,000,000
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- C. Standard Workers Compensation – Full statutory liability for State of Louisiana with Employer's Liability Coverage.

- D. The City of Central must be named as additional insured on all general liability policies described above.

- E. Professional Liability coverage for errors and omissions is not required, but the City shall have the benefit of any such insurance carried by Consultant.

- F. Certificates must provide for thirty (30) days written notice to Certificate Holder prior to cancellation or change.

- G. The Certificate Holder should be shown as: City of Central, 13421 Hooper Road, Suite 9, Central, LA 70818

NOTE TO PROPOSERS:

- 1) **You should submit evidence of these Insurance Requirements with all required information set forth in the solicitation documents as your proposal.**
- 2) **Retain the complete set of Specifications and Contract Documents and a copy of the Insurance Forms for your files.**

ATTACHMENT B-: COST PROPOSAL FORM

**CITY OF CENTRAL
DISASTER MANAGEMENT AND MONITORING SERVICES PROPOSAL**

Hourly Labor Rate for Debris Monitoring and Other Post-Event Management Services.

Note to Proposers: All costs proposed are to be inclusive of labor, materials, equipment, incidents, etc. necessary to provide the scope of services outlined in this RFP for the below listed hourly rates. Rates proposed are also to include all expenses, including general overhead, equipment, field overhead, and profit and travel and per diem, all necessary food, water, restroom and lodging facilities needed to provide these services. **The total contract sum is not to exceed \$100,000 per year for a total of three years with the City's option for two separate one year extensions.**

Positions	Proposed number to provide for each Position	Straight Time Billable Rate	Overtime Billable Rate
Project Manager	1	\$75.00	\$75.00
Operations Manager	1	\$65.00	\$65.00
Program Manager	0	\$125.00	\$125.00
PW Specialist	1	\$85.00	\$85.00
Scheduler/Expeditor	0	\$10.00	\$10.00
GIS Analyst	0	\$65.00	\$65.00
Field Supervisor	1	\$48.00	\$48.00
Debris Site/Tower Monitor	2	\$36.00	\$36.00
Environmental Specialist	1	\$85.00	\$85.00
Project Inspector (Citizen Drop-Off Site Monitor)	0	\$36.00	\$36.00
Field Coordinator (Crew Monitor)	5	\$36.00	\$36.00
Load Ticket Data Entry Clerk (QA/QC)	0	\$10.00	\$10.00
Billing/Invoice Analyst	0	\$10.00	\$10.00
Project Coordinator	0	\$10.00	\$10.00
Other required positions (to be defined by proposers, if applicable)*	N/A	N/A	N/A

AFFIDAVIT

**STATE OF LOUISIANA
PARISH OF EAST BATON ROUGE**

BEFORE ME, the undersigned authority, personally came and appeared

Brooks Wallace

who, being duly sworn did depose and say:

That he is a duly authorized representative of Debris Tech LLC
receiving value for services rendered in connection with:

***MONITORING SERVICES FOR MONITORING SERVICES FOR
DISASTER STREET-CLEARING, DEBRIS COLLECTION, REMOVAL,
PROCESSING, DISPOSAL, AND MANAGEMENT SERVICES***

a public project of the City of Central, Louisiana: that he has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by him whose services in connection with the construction, alteration, or demolition of the public building or project or in securing the public contract were in the regular course of their duties for him; and that no part of the contract price received by him was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by him whose services in connection with the construction of the public building or project were in the regular course of their duties for him

[Handwritten Signature]

Affiant's Signature

SWORN TO AND SUBSCRIBED before me, on this 21st day of August, 2016, in Picayune (city), Mississippi (state).



[Handwritten Signature]

NOTARY PUBLIC

THE ATTACHED BIDDER'S ORGANIZATION SHEET MUST BE COMPLETED TO INDICATE WHETHER BIDDER IS AN INDIVIDUAL, PARTNERSHIP, ETC.

BIDDER'S ORGANIZATION

BIDDER IS:

AN INDIVIDUAL

Individual's Name: _____

Doing business as: _____

Address: _____

Telephone No.: _____ Fax No.: _____

A PARTNERSHIP

Firm Name: _____

Address: _____

Name of person authorized to sign: _____

Title: _____

Telephone No.: _____ Fax No.: _____ Email: _____

A LIMITED LIABILITY COMPANY

Company Name: _____ DebrisTech LLC

Address: _____ 925 Goodyear Blvd. picayune, MS 39466

Name of person authorized to sign: _____ Brooks Wallace

Title: _____ Principal

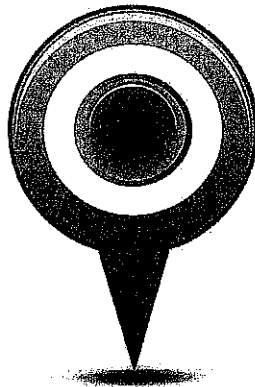
Telephone No.: 601-916-1113 Fax No.: _____ Email: brooks@debristech.com

COPY

Contact Information

DebrisTech, LLC

925 Goodyear Boulevard
Picayune, MS 39466
Brooks Wallace, President
brooks@debristech.com
(601)916-1113



DEBRISTECH

ELECTRONIC DEBRIS MANAGEMENT SYSTEM

