

JEFFERSON PARISH

RFP NO. 0414

LEAD-BASED PAINT HAZARD INSPECTIONS
AND RELATED SERVICES

NOVEMBER 30, 2020



Terracon

RESPONSIVE | RESOURCEFUL | RELIABLE

524 ELMWOOD PARK BLVD., SUITE 170
NEW ORLEANS, LA 70123



November 30, 2020

Ms. Sidney Duffy, Buyer II
Jefferson Parish Purchasing Department
1221 Elmwood Park Blvd, Suite 404
Jefferson, LA 70123

RE: RFP0414 Provide Lead-Based Paint Hazard Inspections and Related Services for the Parish of Jefferson Residential and Commerical Rehabilitation Projects

Dear Ms. Duffy,

Terracon Consultants, Inc. (Terracon) is excited to submit our qualifications to provide lead-based paint hazard inspections and related services for the Parish of Jefferson. Terracon has teamed with Wilson Environmental Services, LLC (WES) to provide the highest level of service required by this contract. Our core environmental services include, lead and asbestos inspection and abatement services, site assessments and investigations, natural resources, NEPA and wetlands delineation, cultural resources, industrial hygiene and occupational safety, regulatory compliance, remedial design and implementation, Brownfields and site redevelopment, and environmental management systems.

We understand the Parish of Jefferson desires to obtain a qualified consulting firm for a two year contract for lead-based paint hazard inspections in pre-1978 HUD assisted housing units. Our proposal demonstrates our ability to perform the lead-based paint and related services described in this RFP. We are willing to perform these services and negotiate a contract with Jefferson Parish. Terracon fully understands all services to be performed under this contract. Terracon has served as both the prime- and sub- consultant on multiple city and parish projects and contracts throughout Louisiana, as well as, thousands of similar projects throughout the country. The enclosed Proposal details our team's experience and capabilities. We have made every effort to develop this Proposal in such a manner as to provide a clear and concise presentation of our capabilities to perform the required services. We commit to provide services as requested by the Parsih. Terracon's experience is exemplified by our currently held Environmental Consulting IDIQ contracts with the City of Alexandria, Jefferson Parish (IAQ), the Port of New Orleans, Orleans Parish School Board, the City of New Orleans and the New Orleans Redevelopment Authority.

Terracon has established itself as a national leader in environmental consulting services and since 2011, Terracon's Jefferson, Louisiana office has continued to grow these services locally. Terracon's local team consists of professional engineers, industrial hygiene practitioners, environmental scientists and experienced environmental technicians with a vast background in providing the services required in this contract. To better serve any potential request under this contract, Terracon has teamed with WES to be able to exceed the goals required by this contract without sacrificing efficiencies or quality. Together, Terracon's team consists of experienced environmental specialists equipped with all Louisiana Department of Environmnetal Quality (LDEQ) Lead Inspection, Risk Assessor, Lead Supervisor and even Lead Project Designer certifications to fulfill the needs of this contract. Terracon's



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Environmental



Facilities



Geotechnical



Materials

team is also equipped with additional hazardous materials such as asbestos related certifications that may overlap requested services.

Additionally, Terracon has held contracts for other environmental consulting services with the Parish of Jefferson and is therefore, very familiar with the need for responsiveness, communication and execution of project tasks to service a contract of this type. Terracon currently has multiple Lead Inspectors and Risk Assessors as well as a state-of-the-art X-ray fluorescence (XRF) Analyzer located in our Jefferson, Louisiana office and can therefore respond quickly to the needs of this contract. By teaming with WES, Terracon can assure the Parish of Jefferson that the needs of this contract are satisfied at all times.

Terracon was founded in 1965 as Soil Testing Services of Iowa, Inc. with offices in Cedar Rapids and Iowa City, IA. In 1980, the company name was changed to Terracon Consultants, Inc. and the company became a 100 percent employee-owned firm. At that time, Terracon had five offices in Iowa and Kansas. Since that date, Terracon has grown to have over 5,000 employees and over 150 offices in 40 states. Terracon is licensed to do business in all 50 states. Terracon's local office is located at 524 Elmwood Park Boulevard, Suite 170, New Orleans, Louisiana 70123.

Benefits to working with Terracon include:

Responsiveness: Acting quickly to meet your deadlines, our employee owners are always available to you. With convenient locations across the country, we're able to quickly mobilize a workforce to respond to accelerated schedules and your changing needs. Terracon is located in Jefferson Parish so will be ready to hit the ground on all task orders with staff that meet the minimum requirements for field services and project management located within our Jefferson Parish location.

Resourcefulness: Applying new processes, methodologies, and techniques allows us to take a proactive approach to solving project challenges and deliver your projects better and faster. Our combination of local experience and personnel and our nationwide network of offices, we can initiate services easily on one or multiple projects simultaneously.

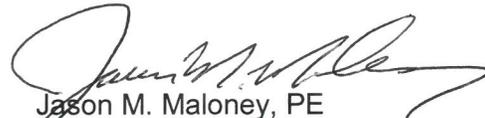
Reliability: With vast experience working in local conditions, Terracon is a dependable partner throughout the life of your project. We deliver practical and constructible solutions, while avoiding delays, surprises, and costly mistakes down the road. Terracon currently has an IDIQ contract with the Parish of Jefferson and other IDIQ contracts of similar scope and size and are therefore specifically familiar with the specific requirements and needs of this contract.

We are confident that our team will provide the Parish of Jefferson with a high level of service and look forward to working with you and your staff on your future projects. The corporate resolution for Zack "Lem" Dial and Certificate of Insurance shall be found in Appendix A. Should you have any questions regarding the attached proposal, please contact us at (504) 818-3638. Thank you for your time and consideration.

Sincerely,
Terracon Consultants, Inc.



Zack "Lem" Dial, P.E.
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Section B.

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SECTION C.
TECHNICAL PROPOSAL

C. Technical Proposal

Meeting the Proposer Requirements:

- A. Terracon has LDEQ accredited Lead Inspectors, Risk Assessors and Lead Supervisor certifications, see chart below. All licenses can be found in Appendix C.

			LDEQ Lead-Based Paint Accredited			
Name	Project Level	Number	Risk		Project	
			Inspector	Assessor	Supervisors	Designers
Jason Maloney, PE	Project Manager	178742	X	X	X	
Adam McEvoy	Lead Team - Technician	201568	X			
Jeff Beasley	Lead Team - Technician	140349	X			
Steven Latoilais	Lead Team - Technician	200658	X	X		
Terry Adams	Lead Team - Technician	220601				X

Mr. Jason Maloney, PE is a Louisiana licensed Environmental Engineer and environmental department manager for Terracon's local Jefferson Office. Mr. Maloney is also an accredited LDEQ Lead Inspector, Risk Assessor and Supervisor. Mr. Maloney will be responsible for overseeing all aspects of project execution including oversight of remediation Contractor's work and will be able to perform all abatement activities that may be performed by abatement workers. Mr. Maloney has over five years of experience in lead-based paint consulting including inspections, risk assessments, and abatement projects as well as the management and execution of similar IDIQ contracts with Jefferson Parish and other local government agencies. Mr. Maloney will serve as the Point-of-Contact and project manager for this contract



Mr. Steven Latiolais is a staff industrial hygienist and group manager or lead and asbestos services in Terracon's local Jefferson Office. Mr. Latiolais is also an experienced LDEQ Lead Inspector and Risk Assessor. Mr. Latiolais has experience in the oversight, coordination, and completion of the NEPA 24 CFR Part 58 Environmental Review Record and associated LBP inspections, risk assessments and asbestos surveys. Mr. Latiolais experience includes the performing lead and asbestos surveys for 120 projects associated with the Louisiana Housing Corporation's (LHC) Neighborhood Landlord, Multi-family Restoration, and Baton Rouge Rebuilds Programs. Project sizes for this project ranged from renovation to new construction of single-family homes and large-scale multi-family developments within areas impacted by the Louisiana flood events of 2016. Mr. Latiolais has also provided consulting services for the LHC's Small Rental Property Program where he was responsible for the oversight, coordination, and completion of LBP inspections and risk assessments. Additionally, Mr. Latiolais provided support for HUD's Restore Louisiana program where he completed over 150 LBP inspections and risk assessments. Mr. Latiolais will serve as a task manager for this contract, assisting in the day to day organization of the contract and leading field services.

Not only is Terracon a local industry leader in hazardous materials, nationally Terracon is ranked #1 in Asbestos and Lead Abatement consulting services by Engineering News Record (ENR) for 2020.

B. Terracon has over five years of experience in inspections, risk assessment, specification writing and supervision of HUD-assisted units in the State of Louisiana in accordance with HUD Chapter Seven, Lead Based Paint Guidance. Terracon has been in Louisiana for over 30 years, previously Aquaterra Engineering. The New Orleans office was established in 2010, Our project manager has over 14 years of experience in environmental consulting with significant experience in all aspects of hazardous materials consulting services.



1. Terracon has experience in not only lead-based paint hazard controls but also asbestos, mold, air quality, radon, and any other hazardous materials. We have multiple LDEQ asbestos inspectors, contractor supervisors, management planner, project designer and trainers.
2. Terracon has experience in the planning, design and monitoring of lead-based paint hazard control projects.
3. We have experience in collecting environmental samples and interpreting test results, and in collection and analysis of lead samples, such as dust wipes, soil, paint chips and water samples in housing environments.
4. Experience in environmental report writing, and an ability to outline a lead hazard control strategy with an order of priorities and recommend methodologies.
5. Our team generates inspection reports, risk assessment reports, specification/work protocols and clearance close-out reports. Terracon's team will attend bid conference and consult with Community Development. We will conduct on-site quality assurance inspections on work in progress or whenever necessary. Sample inspection and risk assessment reports can be found in Appendix D.

C. Our team will be willing and able to respond to questions from the government entity's staff via telephone, email or any other form of communication, as needed, regarding all HUD, State and Parish related matters. We understand that communication is key to having a successful project.

2.7 (A) TECHNICAL APPROACH

Terracon's motto is "Delivering Success for Clients and Employees." This includes delivering a quality product, under budget and on time. We achieve this goal through transparent communication and efficient coordination and scheduling of resources. All of our efforts to manage resources effectively and to meet in-house and client deadlines are pointed to satisfying the needs of our clients. Every project and client has unique needs and requirements. Therefore, we work to establish a consistent line of communication with our clients to ensure that their needs are met. This starts at the development of the environmental proposal scope and continues throughout the remainder of the project. We look at each project as an opportunity to apply our knowledge and expertise creatively to the particular and unique set of characteristics of the project in order to arrive at a suitable and satisfying result.

Terracon recognizes the importance of meeting project deadlines and strives to staff each office with the sufficient staff required to complete any and all projects within the requested deadlines. However, Terracon also recognizes that there are situations where unexpected scenarios or circumstances can put project deadlines in jeopardy. Therefore, Terracon has worked to establish a corporate culture that promotes sharing of resources in and between offices.

Terracon will make sure to include Jefferson Parish personnel in all aspects of each projects. Once Jefferson Parish, provides Terracon with information for a site, an initial kick off meeting internally and externally is a sure way to address any questions prior to site visits. Once a date is set for site visits, Terracon will aid in managing appropriate personnel. If any critical junctures are to arise throughout the project, Terracon's Point- of- Contact and appropriate Jefferson Parish personnel will be made aware.

TASK EXECUTION AND TRACKING

For this project, we commit to performing all required tasks with the project team listed and utilizing Terracon's wealth of experience nationwide. The benefit of our other offices and our DBE teaming partner WES will be to provide assistance when necessary to allow our current work load to be accomplished without interruption as a result of this project assignment. This is a common approach that is used by our firm to provide a dedicated focus to a project of this type without slowing progress on other projects.

Terracon anticipates being able to supervise personnel due to the oversight and direct supervision of all aspects by the Project Manager and technical project reviewer. With these various levels of supervision, it can be ensured that the needs of the contract are being fulfilled at all times. As with similar contracts of this nature, Terracon is committing a project manager and a back-up project manager, who together will serve as the Point-of-Contact. This team will work closely together to ensure that timely and quality services are provided to the Parish.

Upon receipt of a task order or Notice to Proceed, the Point-of-Contact and Project Manager will identify the appropriate personnel to complete the task. Terracon understands that emergency situations may be occur, in which case the Parish will provide verbal authorization for the initial task order, which will be followed by a formal Task Order and Notice to Proceed.

Standard timeframes for non-emergency tasks will include an on-site response by appropriate personnel to each Notice to Proceed within approximately 2 business days. Sampling activities associated with investigations or risk assessments will be delivered to the laboratory within 24-hours of demobilization from the site.

Terracon understands that every effort must be made to complete inspections, risk assessments, and write ups within one week of official Notice to Proceed.

QUALITY ASSURANCE AND REPORT DELIVERABLES

Based on the anticipated timeframe of completion/ milestones, and quantity of projects at any given time, the project manager will work with team leaders to assign appropriate staff to the completion of each task. For each major milestone, and the completion of a task, Terracon's Approved Project Reviewer (APR) program will be utilized to ensure quality and consistent final products. Terracon's Team Leaders, will update the Parish at each milestone, and at any point during the project where a major environmental concern or problem is identified.

Terracon's internal quality control system requires that we constantly evaluate costs and project budget concerns throughout the duration of our projects. Our experience allows us to design cost-effective

solutions to complex projects. We are sensitive to the fact that time of year phasing and design complexities are all factors that influence project costs. We have a long track record of not only completing projects within budget, but also of finding innovative ways to reduce the overall project costs for projects.

Terracon, on similar projects in the past, have taken great pride in working with government entities and stayed ahead of proposed schedules while protecting the entities' best interest. We understand that finishing ahead of schedule can create cost savings for the Parish, as well as, eliminating any hazardous environmental condition as soon as possible.

The review process of any project deliverable is a critical element of Quality Control and, as such, is a cornerstone of Terracon's commitment to quality and excellence. Terracon assigns an Approved Project Reviewer (APR) prior to initiating any task or project. This APR is responsible for the quality of entire project from kick-off through final report deliverables. This Professional has been approved as an APR by a panel of Terracon industry leaders who evaluate the candidate's background, experience, licenses and certifications, and professionalism to determine if the candidate has the requirements essential to an APR.

SCOPE OF WORK/SERVICES UNDERSTANDING AND EXECUTION

Overview of lead inspection, risk assessments and clearance testing as required by 24 CFR Part 35.

Terracon offers a one-source solution for most hazardous material concerns and provides a full range NEPA, lead-based paint (LBP), and asbestos consulting services. Terracon's proposed team for this project is structured and made up of trained, experienced, and licensed individuals for the sole purpose of providing comprehensive, detailed, and regulatorily viable deliverables.

When third-party laboratory analysis is required for this project, Terracon will only utilize laboratories accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and Louisiana Environmental Laboratory Accreditation Program (LELAP).

In connection with LBP, Terracon's team will utilize Louisiana certified lead inspectors and/or risk assessors to conduct each LBP inspection, risk assessment, and clearance in accordance with accordance with Chapter 5 and 7 of HUD Guidelines, LAC 33:III.Chapter 28, and as required by specific funding grants. The lead inspection will be completed by conducting a surface by surface investigation of pre-1978 components of the interior and exterior of the structure utilizing an X-ray fluorescence (XRF) analyzer. XRF technology is a non-invasive, non-destructive means to determine presence of lead in paint, even in a painted surfaces several layers below the surface.

When performed, dust wipe samples will be collected in general accordance with the HUD Guidelines, Appendix 13.1, using wipes that meet the American Society for Testing and Materials (ASTM) Standard E 1792 and submitted for analysis via Flame Atomic Absorption Spectroscopy (FAAS) (EPA SW846 7420/7000B). When performed, soil samples will be collected in general accordance with the HUD Guidelines, Appendix 13.3 and analyzed via FAAS EPA SW846 7420/7000B..

Lead-Based Paint Risk Assessments and Inspections

Terracon's Louisiana Department of Environmental Quality (LDEQ) Accredited Risk Assessors and inspectors perform LBP risk assessments and inspections in accordance with state, the USEPA and/or the U.S. Department of Housing and Urban Development regulations. Terracon's inspectors and industrial hygienists are also competent in evaluating occupational lead exposure. Inspections are performed in buildings utilizing an X-ray fluorescence analyzer (XRF) to test painted surfaces in each sample location. XRF technology is a non-invasive, non-destructive means to determine presence of lead in paint, even if a

1

painted surface has several layers below the surface. Terracon has the expertise to also test surface dust, water, and bare soil for lead content.

Terracon's Jefferson office has an in-house XRF analyzer that will be made available to this contract if awarded

Abatement Planning and Monitoring

Terracon has extensive experience in preparing plans and specifications for remedial actions including enclosure, encapsulation, and partial or complete removal. Terracon has provided turnkey project management for a number of abatement projects. Terracon can also provide trained and certified technicians for oversight and air sampling during the abatement process.

Demonstrated Experience and Local Experience

Terracon is currently nationally ranked number 1 in the Engineering News-Record's 2020 listing of the Asbestos and Lead Abatement Design forms. This experience extends to Terracon's local New Orleans office, who has become a leading provider of hazardous building materials consulting services in the area. Terracon has performed lead consulting services including lead-based paint inspections, risk assessments, abatement designs and abatement clearance sampling services for a variety of projects and clients including school renovations and commercial redevelopment projects and multi-family housing facilities. Terracon's New Orleans office currently holds contracts with the Port of New Orleans, the City of Alexandria, New Orleans Redevelopment Authority, Orleans Parish School Board, Diocese of Lake Charles, the City of New Orleans and Jefferson Parish to perform various environmental services including lead consulting services. Terracon's New Orleans office has performed hundreds of projects that have included lead-based paint consulting services, including asbestos and/or lead-based paint surveys of over 100 structures as part of the City of Alexandria contract since 2017.

Examples of a completed Lead-Based Paint Survey and a Lead Risk Assessments are included in the Example Reports documentation

Housing Quality Inspections

The U.S. Department of Housing and Urban Development (HUD) set forth basic housing quality standards (HQS) which all units must meet before assistance can be paid on behalf of a family and at least annually throughout the term of the assisted tenancy. HQS defines "standard housing" and establishes the minimum criteria for the health and safety of program participants. Current HQS regulations consist of 13 key aspects of housing quality, performance requirements, and acceptability criteria to meet each performance requirement. HQS includes requirements for all housing types, including single and multi-family dwelling units, as well as specific requirements for special housing types such as manufactured homes, congregate housing, single room occupancy, shared housing, and group residences.

Terracon will perform HQS inspections in general accordance with HUD guidelines and will submit findings on standard HQS Forms and Checklists provided on the HUD website. Terracon will make every effort to complete inspections and return completed forms to the Parish within one week of Notice to Proceed.

Lead-Based Paint Inspection

Terracon will mobilize a LDEQ accredited lead inspector or risk assessor to conduct the lead inspection in accordance with Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Edition) Chapter 7 and the State of Louisiana Title 33 Environmental Quality, Part III. Air; Chapter 28. The lead-based paint survey will include a surface by surface evaluation of painted building components to be affected by the proposed renovations, utilizing an

X-ray fluorescence (XRF) lead in paint analyzer. The lead survey services proposed will include an inspection to identify the presence or absence of lead in painted, shellacked, stained, or otherwise coated building component surfaces from both the exterior and interior of the on-site structures. Terracon understands that the buildings may not be vacant during our site visit. Terracon will perform non-destructive testing of painted surfaces in accordance with HUD protocols.

The XRF instrument will be used to provide an on-the-spot determination of lead in paint for each testing location selected and will log data from each reading taken during the inspection. Sampling locations will be chosen randomly to be representative of the homogeneous painted areas. The XRF data logged reading information will be presented as an appendix to the lead-based paint survey report. The purpose of the lead-based paint survey is to determine if lead based paints are present and to identify the location of lead-based paint within the structure

XRF results are reported in micrograms per square centimeter ($\mu\text{g}/\text{cm}^2$) and will be collected using a calibrated XRF analyzer. Calibration checks will be performed on the XRF instrument prior to beginning each day of sampling, at intervals of every four hours of sampling time, and at the conclusion of each day of sampling.

Full Lead Risk Assessment

Terracon will mobilize a Louisiana Accredited Lead Risk Assessor trained in United States Housing and Urban Development (HUD) to conduct a Lead Risk Assessment in compliance with state of Louisiana regulations set forth in LAC, Title 33, Part III Chapter 28 §2811 (D) and HUD guidelines. Terracon's risk assessment procedure will be conducted in accordance with the following steps:

- Conduct a review of any previous lead-based paint hazard determinations, or laboratory results for lead-based paint which have already been conducted on the property. If no results are present, a lead inspection will be conducted utilizing x-ray florescent radiation (XRF) technology to determine if lead based paint exists.
- Based on the findings of the lead inspection, Terracon will perform a lead risk assessment of the property to determine the presence or absence of lead hazards and suggest appropriate hazard control measures. The lead risk assessment will be conducted by an LDEQ certified lead risk assessor.
- If Lead-based paint is found, a lead hazard assessment will be conducted
- Gather background information on the property to determine its uses and likelihood that a child under six years of age will inhabit the facility regularly.
- Conduct a visual inspection to locate existence of deteriorated paint and assess paint condition.
- Any painted surface considered to be in poor condition will be tested for lead.
- For residential dwellings that contain lead-based paint, composite lead dust wipe samples will be taken from the windows and floors of areas where children six years of age and younger are most likely to come in contact with a lead dust hazard. These areas include play areas, kitchens, bedrooms, and entryways.
- Soil sampled will be taken is paint chips are visible in the soil
- All soil and wipe samples will be analyzed by a third party-laboratory which is accredited by the Louisiana Laboratory Accreditation Program (LELAP) and the American Industrial Hygiene Association (AIHA) which operates the Environmental Lead Laboratory Accreditation Program (ELLAP).

- If Lead-based paint is determined to not be present, a report including documentation of the inspection will be provided. Wipe and soil samples will not be collected.
- All activities will be conducted under the supervision of a Certified Industrial Hygienists (CIH).

Terracon understands that lead inspections / risk assessments may include a combination of additional lead samples, including wipe samples, paint chip sampling, composite soil samples or drinking water samples. Terracon will provide an LDEQ accredited lead inspector or risk assessor to collect these additional samples as part of lead-based paint inspection or risk assessments.

Lead Clearance Test

Upon completion of renovations/abatement activities, Terracon will mobilize a Louisiana Accredited Lead Inspector / Risk Assessor to conduct a visual inspection, to determine if the deteriorated surfaces and or visible dust, debris or other residue, is present. If the visual clearance is passed, clearance sampling will be conducted by employing single surface sampling techniques. The clearance sampling protocol generally includes the following:

- Windowsill wipe samples
- Floor wipe samples in each room where abatement occurred
- One floor wipe in a non-abatement area
- The specific number of samples collected will determined by the scope of the abatement activities. It is assumed a typical structure would include approximately seven samples. A clearance report including appropriate documentation will be provided.

Additional Lead Clearance Testing

If any of the wipe samples from the clearance test fail, after re-cleaning activities have finished, Terracon will mobilize to conduct clearance sampling of the non-passing areas. It is anticipated that no more than two samples would be collected at an additional clearance test.

Dust Wipe Samples and Paint Chip Samples

Paint chip sampling will be performed in accordance to ASTM E1729-05. Wipe sampling will be performed in accordance with ASTM E1728-10. Following collection, samples will be delivered to a Parish approved and state certified laboratory for analysis by Flame Atomic Absorption (FAA) according to EPA Method SW 846-7000. For this contract, Terracon has included EMSL Analytical and Pace Analytical as appropriately accredited laboratory for all analysis required by this contract.

Composite Soil Samples

When requested by the Parish, Terracon will collect composite surface soil samples for laboratory analysis. Composite soil samples will be collected utilizing hand auger techniques and will be performed in general accordance with the guidelines identified by the U.S. Environmental Protection Agency (EPA) Field Branches Quality System and Technical Procedures. Samples will be submitted to a Parish selected and state certified laboratory for analysis of Lead by EPA Method 6010 or other Parish approved analytical method. Non-dedicated sampling equipment will be cleaned using an anionic detergent wash and potable water rinse prior to commencement of the project and between collection of each sample. For this contract, Terracon has included EMSL Analytical and Pace Analytical as appropriately accredited laboratory for all analysis required by this contract.

Water Samples

At the Parish's request, Terracon will collect drinking water samples which will generally consist of both static samples and dynamic samples. Static samples are collected immediately after turning a tap on and dynamic samples will be collected following a three-minute flush. These samples will be collected from taps that are in frequent use for drinking purposes. Collected samples will be analyzed for lead content by a Parish approved and state certified laboratory for using atomic absorption spectroscopy, EPA Method 600-4-79-020/239.2. For this contract, Terracon has included EMSL Analytical and Pace Analytical as appropriately accredited laboratory for all analysis required by this contract.

Abatement Design Bid Specifications

When required, Terracon will develop a site-specific project technical specification for the removal and disposal of the LBP identified in the referenced property or other lead-based paint hazard reduction control methods. The specifications will be developed in accordance with applicable local, state or federal regulations. The specification document will include the following:

- Project scope of work
- Definitions to be used during the project
- Materials to be used during the project
- State, EPA, OSHA regulations and HUD guidelines, as well as any other applicable Federal, State and local
- government regulations pertinent to LBP removal, encapsulation and disposal.
- Contractor submittals such as certifications, work plans, notifications, disposal
- arrangements and worker training documents
- Coordination of work schedule between Client and abatement Contractor and work area sequencing
- Worker protection requirements
- Work area preparation procedures
- LBP removal methods to be followed
- Work area decontamination/cleaning procedures
- Final clearance requirements
- Waste disposal procedures

Abatement Oversight and Consultation

Terracon can provide additional consultation upon request by LDEQ accredited Lead Risk Assessor or Lead Supervisor for consultation services and abatement project oversight. Project oversight activities will ensure that abatement activities are being conducted in a safe manner that complies with the project technical specification. Terracon will assist in the verification appropriate certification and or accreditations of contractors conducting lead-based paint reduction and control activities and will notify the Parish of any potential regulatory or specification violations that are observed during project monitoring activities.

Use of Technology for Project Management and Document Delivery

In addition to our personnel and material resources, Terracon has realized that technology is changing the way we do business and with that understanding, we have made a significant investment in technology that provides expediency and efficiency for Terracon staff and our clients.

Construction Materials Engineering Laboratory Management System (CMELMS™)

This system is utilized for project scheduling, collection of field test and inspection data, daily field report preparation, and report distribution. The system is an automated application accessible via smartphone and laptops that allows for real-time document management through Terracon's Client Document Website. This application was originally developed by Terracon for construction materials testing projects but has been incorporated in other services to allow Terracon to provide updated project information that can be accessed by authorized users to stay current with projects such as lead abatements or a portfolio of multiple sites. This system also acts as a repository of any project deliverables so that reports can be easily accessed at any time after being uploaded by the project manager.

Terracon ShareFile System

Terracon utilized a file transfer protocol system known as ShareFile to send large documents easily without exceeding electronic-mail limits, which can slow project communication. The ShareFile system can be used to transfer large files between Terracon and the Parish of Jefferson, or vice versa.

Disaster Response and/or Emergency Projects

Terracon understands that circumstances may arise that require lead-based paint and/or HUD property standard inspections to be performed on a rush 24-hour schedule. Terracon's local Jefferson office is currently staffed with multiple risk assessors and lead inspectors as well as the necessary equipment in-house needed to perform these services on a rush schedule. Additionally, Terracon's network of regionally located office allows us to acquire additional personnel or XRF analyzers quickly upon request.

Terracon recently invested in the state-of-the-art Heuresis Pb200i handheld XRF lead paint analyzer which is kept at our Jefferson office. This XRF lead paint analyzer is the smallest, lightest and highest performing lead paint analyzer and is has appositive or negative determination without the need for substrate correction. This means this devise does not have an indeterminate zone for results and will not require additional paint chip samples to confirm results, making it the ideal analyzer for this contract.

Other Project Requirements

Terracon understands that this contract will require Terracon to assist the Parish of Jefferson with the latest Federal and State regulations, statutes, circulars, executive orders, polices, proceeds and guidelines issued by HUD as it pertains to applicable lead-based paint inspections and Terracon will provide technical assistance for compliance. Terracon's national and local team of lead practitioners participate in continuing education to remain up to date with applicable regulations and requirements.

Terracon also understands this contract will require Terracon personnel to attend meetings with Local, State, or federal officials or agencies or coordinate and implement special HUD related projects as requested. Terracon appreciates the opportunity to be an advocate and teammate with our clients and look forward to assisting the Parish of Jefferson with these services as requested.

In addition, Terracon's staff is deeply aware of the sensitivity needed when a project includes a person's residence and is capable of interacting with homeowners and members of the public while maintaining the Parish of Jefferson's procedural and professional integrity. Terracon's everyday focus is not only to meet the expectations of all of our clients but to extend them at every opportunity.

To keep our employees safe while partnering with the Parish of Jefferson, we have created specific COVID-19 pre-task planning procedures for our field and office employees. We have also established field and laboratory contingency plans in each of our local offices, including having our employees work



alternating shifts to make it easier to practice social distancing. We are maintaining continuity through a planned approach of possible scenarios focused on caring for those who may be exposed while protecting others who are healthy. All of us at Terracon are committed to safely partnering with the Parish of Jefferson to keep our communities and projects moving forward and consistent with state and local responses.





SECTION D.
**PROPOSER QUALIFICATIONS
AND EXPERIENCE**

D. Qualifications and Experience



History and Background

Terracon is a 100 percent employee-owned consulting engineering firm providing quality services to clients. Since 1965, Terracon has evolved into a successful multidiscipline firm specializing in: **Environmental, Facilities, Geotechnical** and **Materials**.

Over its history, Terracon has achieved significant expansion through both internal growth and acquisitions. Terracon currently has more than 5,000 employees in more than 150 offices and 50 states nationwide. Locally, we have 4 offices in Louisiana, including Jefferson, Baton Rouge, Lake Charles, and Shreveport with 100+ employees. Additionally, we partner with our U.S. clients to serve their international needs.

The firm's success is further evidenced by a current ranking of 22 in *Engineering News-Record's* 2020 listing of the Top 500 Design Firms, as compared to a ranking of 41 a decade ago. Terracon's growth is due to dedicated employees who are responsive to clients, provide quality services, and take advantage of opportunities in the marketplace.



Terracon provides services on thousands of projects each year. Our culture, systems, and structure enable us to excel at both small and large projects. By combining our national resources with specific local area expertise, we consistently overcome obstacles and deliver the results our clients expect.

Environmental services represent more than 30 percent of our annual revenue, making us one of the largest environmental engineering and consulting firms in the United States. Our geotechnical, materials testing and facilities abilities add strength and diversity to our environmental assessment and remediation services.

Terracon is registered as a Response Action Contractor (RAC) with LDEQ and maintains a Louisiana State Contractors License with a Hazardous Material, specifically Hazardous Waste Treatment and Removal classification; and a Louisiana Water Well Driller's License. Terracon personnel have LDEQ Certifications in Lead-based Paint (Inspector, Risk Assessor, Supervisor and Project Designer), Asbestos (Inspector, Contractor/Supervisor, Designer and Management Planner), and Underground Storage Tanks (Closure).

Terracon serves a diverse portfolio of private and public clients. By being responsive, resourceful, and reliable, we strive to exceed our clients' expectations for service, solutions, quality, and speed of delivery. Based on a deep understanding of our clients' needs, Terracon's commitment is centered around these key objectives.

SERVICES WE PROVIDE

Environmental	Facilities	Geotechnical	Materials
<ul style="list-style-type: none"> ■ Asbestos Consulting ■ Remediation Design and Implementation ■ Due Diligence / Phase I ESAs ■ Industrial Hygiene ■ Regulatory Compliance ■ Natural / Cultural Resources ■ Site Investigation and Closure ■ Brownfields / Site Redevelopment 	<ul style="list-style-type: none"> ■ Building Enclosure Consulting ■ Engineering and Materials Diagnostics ■ Property / Facility Condition Assessments ■ Mechanical, Electrical, and Plumbing Consulting ■ Aquatics Assessment and Design ■ Energy / Building Performance Modeling 	<ul style="list-style-type: none"> ■ Report of Expected Geotechnical Conditions (REGC) ■ Subsurface Exploration (Soil Borings, In-Situ Testing, Geophysical) ■ Laboratory Testing ■ Geotechnical Design ■ Geotechnical Instrumentation ■ Construction Monitoring and Support 	<ul style="list-style-type: none"> ■ Construction Quality Assurance / Quality Control ■ Construction Inspection / Special Inspection ■ Field and Laboratory Testing and Analysis ■ Construction Observation and Monitoring ■ Structural Steel ■ Nondestructive Testing

Experience with Governmental Entities

Terracon has numerous prior engagements where we have assisted with governmental entities in dealings with hazardous materials requirements including lead inspections, assessment, and clearance testing.

City of New Orleans Disaster-CDBG Environmental Consulting Services

The City of New Orleans Office of Community Development (CNO-OCD) is currently responsible for the administration of \$411 million of Katrina disaster-recovery Community Development Block Grants (CDBG) allocated from the State of Louisiana's Office of Community Development (La-OCD) Long Term Community Recovery Program, \$15,031,000 million of Isaac disaster-recovery CDBG funds allocated from the US Department of Housing and Urban Development (HUD) and \$141,260,569 on CDBG-National Disaster Resilience Competition (NDRC) funding from HUD. With these funds, the CNO-OCD is implementing a number of special projects and programs to assist in rebuilding the city and restoring its status as one of the nation's most thriving communities.

The CNO-OCD contracted with Terracon to provide various environmental consulting services under a one-year contract with the option to extend for four additional one-year terms. This contract has currently been renewed for a second year. These services include the completion of Environmental Reviews as required by the National Environmental Policy Act (NEPA) of 1969; Phase I Environmental Site Assessments (ESA) and Phase II ESA; and lead inspections, risk assessments, clearance inspections and associated reporting as required by 24 CFR Part 35. Since the beginning of the contract in early 2020, the CNO-OCD has issued Task Orders for four Phase I ESAs and the preparation of a HUD Environmental Record Review for a stormwater resilience project.

New Orleans Redevelopment Authority

The New Orleans Redevelopment Authority (NORA) partners in projects and programs supported by Housing and Urban Development (HUD) programs such as Community Development Block Grant (CDBG), Neighborhood Stabilization Program 2 (NSP2), Project HOME Again, and others. These programs generally are utilized for the purchase and/or redevelopment of residential housing, improvement of existing commercial properties and development of new public parks throughout the City of New Orleans.



NORA contracted with Terracon to provide various environmental consulting services under a three-year contract. These services include the completion of Environmental Reviews as required by the National Environmental Policy Act (NEPA) of 1969; Phase I Environmental Site Assessments (ESA) and Limited Site Investigations (LSI) / Phase II ESA; lead inspections, risk assessments, clearance inspections and associated reporting as required by 24 CFR Part 35; and asbestos inspections and consulting services.

Terracon was also tasked to develop a Tier I Programmatic Evaluation in support of NORA's Community Adaptation Program (CAP) in the Gentilly neighborhood of New Orleans, Louisiana. The Tier II evaluation sheet is intended to assess the program's overall environmental impact. The CAP is intended to reduce individual and collective risk over time by reducing localized flooding, improving public health, increasing public awareness of storm water management impacts, and improving economic conditions. The CAP included the installation of rain gardens, planter boxes to collect storm water, rain barrels, detention basins, tree-planting, reduction of impervious surfaces, and infiltration trenches. Terracon was also tasked with developing a Tier II Programmatic Evaluation sheet to be utilized to assess the specific environmental impacts once an individual property was identified. This effort is ongoing.

Louisiana Housing Corporation

Through their Homeowner Rehabilitation Program, Louisiana Housing Corporation (LHC) utilized Community Development Block Grants-Disaster Recovery (CDBG-DR) funds to assist low-to-moderate income owner-occupant household living in hurricane-affected parishes that continue to have a gap in financial means due to the resource limitation, living in homes that are in a substandard condition and/or in violation of code requirements.

Based on qualifications, Terracon was contracted to conduct HUD regulated environmental services for the properties selected for participation in the program. As the program covered 8 parishes, Terracon conducted a Tier I Review for each parish. Based on the Tier 1 Review, Terracon created a Tier II checklist specific to each parish.

Terracon completed Tier II Environmental Reviews for 14 separated properties located in various parishes of Louisiana. Items included within the checklists included: identification of historical resources and consultation with SHPO; toxics and hazardous materials/wastes; lead based paint; asbestos containing materials, termites, floodplain and proximity to levee system; selective salvaging; proximity to airport; and noise. The checklists were completed in a timely manner and were reviewed by LHC.

City of Alexandria

Terracon completed a two-year Environmental Consulting contract with the City of Alexandria to perform on-call environmental and industrial hygiene consulting services for a variety of municipal, state and federal projects throughout the City of Alexandria. As part of this contract, Terracon worked closely with City officials within the community development department to perform asbestos inspections for blighted and abandoned houses prior to demolition as part of neighborhood stabilization programs, and provide consulting services to City officials. Terracon also performed lead-based paint surveys for homes as part of the Home Rehab program. To date, Terracon has performed a total of 57 asbestos surveys for blighted and abandoned residences, 13 asbestos surveys for local commercial properties and 11 lead-based paint surveys of occupied residences.

Terracon was responsible for on-call environmental and industrial hygiene consulting services including general environmental consulting services (i.e. environmental site assessments, risk evaluations, site remediation, etc.), engineering services (i.e. engineering audits, permit precreation, regulatory compliance assistance), industrial hygiene consulting services (i.e. personnel exposure monitoring, health/safety services, asbestos and lead consulting services), and training services (i.e. asbestos, lead and other hazardous materials training).

City of Lafayette Consolidated Government

Terracon was contracted to perform lead-based paint inspections of 27, single-family, residential structures located within Lafayette, Louisiana. Terracon mobilized LDEQ accredited lead inspectors to conduct the lead inspection in accordance with HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Edition) Chapter 7 and the State of Louisiana Title 33 Environmental Quality, Part III. Air; Chapter 28. The lead-based paint surveys included a surface-by-surface evaluation of painted building components to be affected by the proposed renovations, utilizing an X-ray fluorescence (XRF) lead in paint analyzer.



The XRF instrument, owned and maintained by Terracon New Orleans, was used to provide an on-the-spot determination of lead in paint for each testing location selected and will log data from each measurement taken during the inspections. Terracon's LBP surveys consisted of the main dwelling's interior and exterior including any outbuildings, such as car ports or sheds. Terracon prepared one report per address describing the results of these services.

Experienced Team

We have selected the strongest team of Louisiana professionals to dedicate to this very important contract. Currently, our workload is moderate and are therefore able to immediately dedicate the necessary resources and manpower to the project. Our local office has multiple project managers, senior engineers, and field personnel with the ability to oversee/perform environmental services. Locally we have a team of approximate 30 employees. In Louisiana we can pull from a team of 100+ employees for assistance.

Part of our mission of delivering success to our clients is to ensure that our services are provided in a timely manner and within budget. We anticipate having full-time inspectors, engineers, and technicians on site during peak workloads.

Terracon's advantage as a large national firm with over 5,000 employees is evidenced by our ability to provide subject matter experts from other offices to consult on local projects. This ability allows our clients access to a wide variety of experts in environmental engineering under the Terracon umbrella. Terracon has processes in place to efficiently share information, personnel, and equipment across our various offices.

2.7 (B) Qualifications and Experience

1. Profile of Firm's Personnel and Facilities

Firm Legal Name: Terracon Consultants, Inc.

Address: 524 Elmwood Park Blvd, Suite 170, New Orleans, LA 70123 (Jefferson Parish)

Principal Contact: Zack "Lem" Dial, PE

Title: Sr. Associate | Office Manager | Sr. Engineer

Phone Number: 504-818-3638

Email Address: lem.dial@terracon.com

Capacity to Perform Services

We have selected the strongest team of Louisiana professionals to dedicate to this important contract. Currently, our workload is moderate and are therefore able to immediately dedicate the necessary resources and manpower to the project. Our local office has multiple project managers, senior engineers, and field personnel with the ability to oversee/perform environmental services. *Locally we have a team of approximate 30 employees. In Louisiana we can pull from a team of 100 employees for assistance.*

For this contract, we commit to performing all required tasks with the project team listed. The benefit of our other offices will be to provide assistance when necessary to allow our current workload to be accomplished without interruption as a result of this project assignment. This is a common approach that is used by our firm to provide a dedicated focus to a project of this type without slowing progress on other projects. Terracon's ability to quickly expand our capacity relies on two practices that provide significant competitive advantages for the company.

- First, we have built-in systems to share work between all of our offices. This is accomplished by rewarding both the office supporting projects and the office requesting help, creating a culture that supports a seamless sharing of employees. The team has sufficient professional resources to accomplish the work in the required time, including the ability to complete more than one delivery order at a time, and to react quickly and efficiently when working within an accelerated schedule. No individual office within Terracon receives a P&L statement, thus increasing the likelihood and willingness of offices to cooperate and share resources.
- Second, in short-term periods of heavy workload, our employees are willing to work overtime hours. Terracon pays our professional employees overtime based upon exceeding certain chargeable hours, making it possible to expand our capacity without the need to hire for short term increases in workload. While Terracon has a strong philosophy of providing a consistent team of professionals in order to ensure consistency and familiarity with the client and their projects in a geographic area, both of these systems allow us to provide experienced Terracon employees to the project manager on short notice to achieve the consistent quality deliverables in a timely manner when workloads and schedules require additional support.

The capacity to complete a project in the required time requires strong leadership. Our past success is based on demonstrated leadership capabilities, and the ability to manage resources for a successful

project. Additionally, we have developed the expertise, resources, technical capabilities, and tracking systems to ensure completion of assignments on schedule and within budget.

Our typical environmental project duration ranges from a few weeks, months, and in some instances several years. However, the majority of our services are dedicated for small to medium sized projects. Through working on a variety of project types and sizes, Terracon has become proficient at performing environmental services at multiple site assignments concurrently. It is through our performance on these types of projects that we have developed the capability to fully meet workload demands efficiently and effectively. This experience will help Terracon meet Jefferson Parish workload requirements.

Terracon assigns only seasoned Project Team Leaders to direct work assignments. These team leaders are dedicated to serve on Jefferson Parish projects and have demonstrated experience and ability to anticipate and solve staffing capacity issues, before they arise.

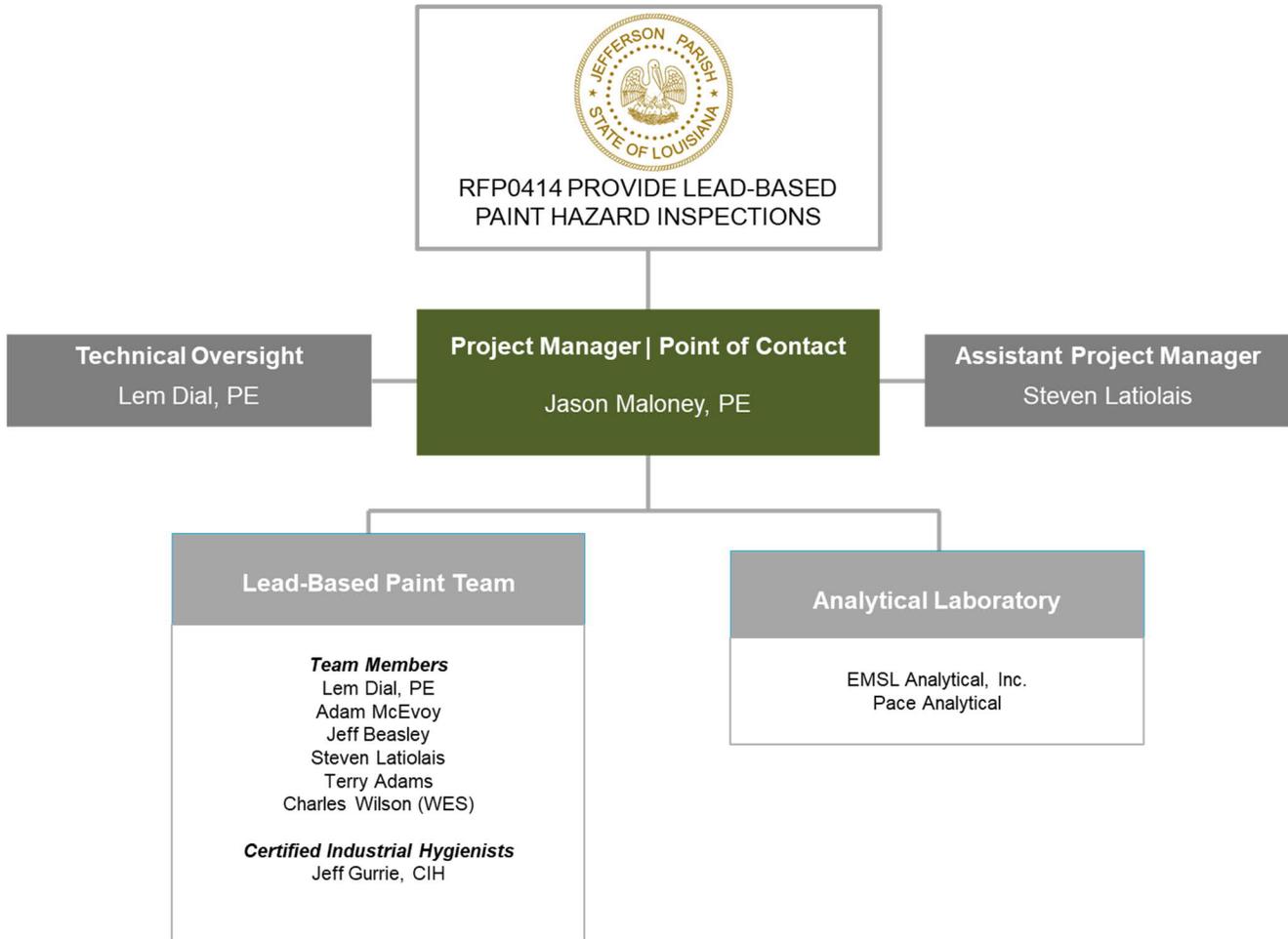
Terracon's internal quality control system requires that we constantly evaluate costs and project budget concerns throughout the duration of our projects. Our experience allows us to design cost-effective solutions to complex projects. Terracon is sensitive to the fact that time of year phasing and design complexities are all factors that influence project costs. We have a long track record of not only completing projects within budget, but also of finding innovative ways to reduce the overall project costs.

Terracon, on similar projects in the past, has taken great pride in working with public entities such as Jefferson Parish and other federal, state and local agencies and stayed ahead of proposed schedules while protecting the cities or parish's best interest. We understand that finishing ahead of schedule can create cost savings for the parish, as well as, eliminating any hazardous environmental condition as soon as possible.

Terracon Team

Our team comprises the most knowledgeable, experienced and professional individuals for environmental consulting services in Louisiana. This team offers sound technical skills, a significant amount of project experience, and has successfully provided these services on similar projects and contracts.

The ability to execute a successful environmental program requires the ability to have staff and systems in place that focus on timely and consistent communication, as well as the ability to produce, review, track and deliver quality, accurate and timely information. The management, inspection and testing professionals and engineers proposed have considerable experience accomplishing the requirements of this contract with a proven project approach. We have assembled a team that understands how to be responsive, resourceful and reliable, while effectively managing the high demands of the project scope and work schedule. This same staff is working on other environmental IDIQ contracts with Jefferson Parish, the Port of New Orleans, City of Alexandria, City of New Orleans and New Orleans Redevelopment Authority. Resumes can be found on the following pages.





Jason M. Maloney, P.E.

DEPARTMENT MANAGER | ENVIRONMENTAL ENGINEER

BACKGROUND

Mr. Maloney has extensive experience in all phases of hazardous materials and environmental consulting. He has provided hazardous materials inspections of structures ranging from single family homes to high-rise hotels, universities, and schools. Mr. Maloney is has assisted in the development of multiple abatement design projects and oversight of abatement activities for the safe and lawful removal of hazardous materials and implementation of operations and maintenance plans. He holds a current Professional Engineer license and has 13 years of experience.

ROLE DESCRIPTION

Mr. Maloney's role as *primary point of contact* and *project manager* will include the assignment and oversight coordination between Jefferson Parish and environmental team. Mr. Maloney will also ensure that the finalization of assessments and reports are reviewed for quality assurance and that all regulations are met. Mr. Maloney's involvement will continue for the duration of the contracted services and can be available for on-site services to Jefferson parish as needed.

PROJECT EXPERIENCE

LSU Health Sciences Center (HSC) | New Orleans, LA (2015 – 2016)

Mr. Maloney served as a key member and local point of contact in the management of a multi-year as needed environmental and industrial hygiene consulting services contract with LSU HSC campus. Through the life of this contract, he performed asbestos of each of New Orleans campus buildings and assisted in the production of the AHERA Management Plans. Mr. Maloney has also performed site inspections for the production of a SPCC plan. Additionally, he prepared and presented a training seminar to comply with federal training regulations for the LSU HSC facility services department. Mr. Maloney has also assisted in the coordination and completion of several asbestos abatements in various campus facilities. estimated completion date, and anticipated next billing date and amount.

McDonough School No. 42 | Jefferson Parrish, LA (2012 – Present)

As the project manager for the environmental services, Mr. Maloney was responsible for the Phase I ESA, asbestos survey, lead-based paint Inspection, and subsequent Limited Site Investigation. Mr. Maloney assisted in the development of the project design for the abatement of highly friable and damaged thermal system insulation located in the attic of this school. The project design was prepared in accordance with AHERA and Chapter 27 of the Louisiana ERC. Substantial detail was required in the design due to the condition, category, and location of the ACM.

Samuel Green Elementary School | New Orleans, Louisiana

As the project manager for the environmental services for this project, Mr. Maloney was responsible for the Phase I ESA, Asbestos Survey and Lead-based Paint Inspection. Due to the sensitive nature of this occupied elementary school, Mr.

EDUCATION

Bachelor of Science, Biological Engineering
Louisiana State University

REGISTRATIONS

Professional Engineer:
LA (38094)

CERTIFICATIONS

29 CFR 1910.120 Hazardous Waste Operations and Emergency Response
- 40 Hour- 8 Hour Refreshers
GBRIMA Certification - GSHO2

Transportation Worker Identification Credential (TWIC)

Troxler Nuclear Density Moisture Gauge Certification

LDEQ UST Certified Worker – Closure

LDEQ Asbestos Inspector

LDEQ Lead Inspector, Risk Assessor, Supervisor

AFFILIATIONS

American Society of Civil Engineers

Training Related to this Contract:
Louisiana Professional Engineer

LDEQ Asbestos Inspector and Trainer

LDEQ Lead Inspector, Risk Assessor, and Supervisor Certified

LDEQ UST Certified Worker (Closure)

Instrument Operator Training
Heuresis Corporation, Pb200i

Maloney conducted all on-site activities outside of the school's normal operating hours. Results of these surveys were utilized in the development of an abatement project design and specifications.

Jefferson Parish Indoor Air Quality IDIQ | Jefferson Parrish, LA (2014 – Present)

Mr. Maloney serves as the contract manager and point of contact for this multi-year Indoor Air Quality IDIQ. Terracon provides scope development, development of protocols and provide as needed consulting and management of projects including water extraction, drying services, structure and contents cleaning, temporary power, documentation restoration,

mold remediation, contamination containment, temporary heat or air conditioning, debris removal, temporary board-up, interior tear out, dehumidification, and deodorizing. The scope of services required for the assessment and subsequent remediation of water damaged buildings is developed on a site-by-site basis. Other services performed under this contract

have included preparation of abatement workplans by an LDEQ accredited Asbestos Project Designer to act as a guidance document for the proper and legal abatement of ACM.

Drew Elementary Charter School | New Orleans, Louisiana

Mr. Maloney was the Environmental Project Manager for this school project. He performed various environmental services including Phase I ESA, Ground Penetrating Radar (GPR) Survey and Limited Asbestos and Lead-Based Paint Sampling. The findings of the Phase I ESA identified the potential presence of chlorinated solvents associated with a historic drycleaner adjacent to the site and the potential presence of on-site underground storage tanks were considered Recognized Environmental Conditions (REC) in connection with the site. Additionally, visual observations for asbestos containing materials and lead-based paint were conducted, leading to recommendations for these surveys. Limited Asbestos Sampling was performed. Mr. Maloney also conducted a GPR Survey or comparable technology to further investigate the potential presence of an UST associated with the previous kerosene based boiler system. Findings of these surveys and investigations were utilized by the contractors during redevelopment of the school.

St. Mary's Dominican | New Orleans, Louisiana

Mr. Maloney served as the project manager for the abatement of asbestos-containing thermal systems insulation and chalkboards with associated mastic. This project included the development of a site specific abatement design specifications in accordance with AHERA and Chapter 27 of the Louisiana Environmental Regulatory Code (ERC) as well as the performance of abatement oversight and air monitoring. Mr. Maloney assisted the project team in the development of the abatement specifications, coordination of abatement oversight and preparation of the final close-out report. Due to the sensitive nature of this occupied elementary school, all on-site activities were performed outside of the school's normal operating hours.

Indoor Air Quality IDIQ | Jefferson Parish, Louisiana

Jason serves as the Project Manager and point of contact for this multi-year Indoor Air Quality IDIQ. Terracon provides scope development, development of protocols and provide as needed consulting and management of projects including water extraction, drying services, structure and contents cleaning, temporary power, documentation restoration, mold remediation, contamination containment, temporary heat or air conditioning, debris removal, temporary board-up, interior tear out, dehumidification and deodorizing. The scope of services required for the assessment and subsequent remediation of water damaged buildings is developed on a site-by-site basis. Other services performed under this contract have included preparation of abatement workplans by a Louisiana Department of Environmental Quality (LDEQ) accredited Asbestos Project Designer to act as a guidance document for the proper and legal abatement of asbestos-containing materials.



Zack "Lem" Dial, PE

OFFICE MANAGER | TECHNICAL REVIEWER

BACKGROUND

Mr. Dial is the office manager for Terracon's New Orleans and Shreveport offices. He is an experienced environmental services professional, having performed various environmental engineering, environmental permitting, remediation, risk-based assessments and consulting services. These services have included completion of Phase I and Phase II ESAs, wastewater treatment and permitting, wetland delineations, asbestos and lead surveys, indoor air quality assessments, post-Katrina mold evaluations, underground storage tank (UST) site assessment monitoring and remediation, and preparation of Risk Evaluation/Corrective Action Program (RECAP) Reports and Corrective Action Plans.

Mr. Dial is a LDEQ Accredited Asbestos Project Designer and Management Planner. He also meets the Environmental Professional and can perform Phase I ESAs. He is a Louisiana licensed Professional Engineer with over 15 years of experience.

PROJECT EXPERIENCE

LSU Health Sciences Center (HSC) | New Orleans, LA (2015 – 2016)

Mr. Dial served as asbestos project designer and management planner during a multi-year environmental and industrial hygiene consulting services contract with LSU Health Sciences Center New Orleans campus.

Recovery School District | New Orleans, Louisiana

As the project manager and management planner for this project, Mr. Dial oversaw the re-inspection and management plan preparation for 4 recovery district schools in Louisiana. These schools required complete thorough re-inspections due to major renovation work that was performed in the years following Hurricane Katrina.

LSU Health Sciences Center | New Orleans, Louisiana

Mr. Dial served as asbestos project designer and management planner during a multi-year environmental and industrial hygiene consulting services contract with LSU Health Sciences Center New Orleans, Louisiana campus.

City of Alexandria | Alexandria, Louisiana

Mr. Dial served as project and contract manager for an on-going 3-year environmental services contract between Terracon and the City of Alexandria. Mr.

Dial has provided consultation and direction for the City on a variety of environmental services ranging from air emission reporting at the City's power plant, to site assessments, to dozens of asbestos and lead surveys on City properties. Mr. Dial is currently performing a regulatory compliance audit for the City Environmental Manager that covers a vast array of regulatory compliance and permitted activities performed.'

EDUCATION

Bachelor of Science
Environmental Engineering
Louisiana State University

REGISTRATIONS

Professional Engineer:
LA (34872)
MS. (21326)

CERTIFICATIONS

LDEQ Asbestos Inspector,
Management Planner, & Project
Designer

MDEQ Asbestos Project Designer

29 CFR 1920.120 40-Hour Hazardous
Waste Site and Emergency Response,
8-Hour Refresher

29 CFR 1910.120(e)(4) OSHA 8-Hour
Training for Supervisors

LDEQ NORM surveyor

AFFILIATIONS

Louisiana Engineering Society
President 2016-2017

Training Related to this Contract:

LDEQ Asbestos Inspector,
Management Planner, Project
Designer, Trainer

Louisiana Professional Engineer

Barksdale Air Force Base | Bossier City, Louisiana

Mr. Dial served as project manager and technical field lead for multiple projects at Barksdale Air Force Base. Terracon performed asbestos and lead-based paint surveys on 16 different structures totaling over 1,000,000 square feet. Bulk samples were collected from suspect asbestos-containing materials and submitted to an accredited laboratory for analysis. If asbestos-containing material was identified, Terracon provided the locations of the material, approximate quantities, and guidelines for handling the material. The surveys were requested in anticipation of renovating or demolishing structures on the base.

St. Mary's Dominican | New Orleans, Louisiana

Mr. Dial served as the Approved Project Reviewer for the abatement of asbestos-containing thermal systems insulation and chalkboards with associated mastic. This project included the development of a site specific abatement design specifications in accordance with AHERA and Chapter 27 of the Louisiana Environmental Regulatory Code (ERC) as well as the performance of abatement oversight and air monitoring. Mr. Dial oversaw the project team in the development of the abatement specifications, coordination of abatement oversight and preparation of the final close-out report. Due to the sensitive nature of this occupied elementary school, all on-site activities were performed outside of the school's normal operating hours.

New Orleans Redevelopment Authority - Acquisition, Construction, and Disposition Projects | New Orleans, LA

Mr. Dial is currently serving as the Contract Manager for the New Orleans Redevelopment Authority (NORA) in support of Terracon's contract with NORA to provide NEPA and Environmental Review Record (ERR) documentation for several HUD programs. These programs include Community Development Block Grant (CDBG), Neighborhood Stabilization Program 2 (NSP2), Project HOME Again, and others. Mr. Dial has also served as the technical lead and quality manager for projects through this contract that relate to asbestos, lead, and subsurface investigations.

Indoor Air Quality IDIQ | Jefferson Parish, Louisiana

Mr. Dial serves as the technical lead and quality manager for this multi-year Indoor Air Quality IDIQ. Terracon provides scope development, development of protocols and provide as needed consulting and management of projects related to asbestos, lead, mold, and a wide variety of other indoor air quality concerns identified by the parish.

Former Times Picayune | New Orleans, Louisiana

Mr. Dial served as the technical lead and quality manager for this large redevelopment project. As part of acquisition due diligence, Terracon was contacted to conduct a Phase I Environmental Site Assessment, Phase II Environmental Site Assessment, and asbestos inspection of the former Times Picayune facility located at 3800 Howard Avenue in New Orleans, Louisiana. The results of the investigation revealed substantial environmental impact to the site from a turpentine plant dating back to the early 1800's, a diesel truck repair station in the mid 1900's, and the photo processing operations from the newspaper printing operations. Terracon has worked with the owner and LDEQ to perform further site investigation activities, develop a corrective action plan, and coordinate the remediation and engineering controls to be implemented at this site.



Steven M. Latiolais

STAFF INDUSTRIAL HYGIENIST | GROUP MANAGER

BACKGROUND

Mr. Latiolais has four years of experience which includes the coordination and management of multi-faceted, turnkey projects for the Department of Housing and Urban Development (HUD) Environmental Review Procedures, asbestos, lead-based paint, groundwater monitoring, and geotechnical services. His experience also includes performing Phase I/II Environmental Site Assessments (ESA), site investigations in accordance with the Louisiana Department of Environmental Quality's (LDEQ) Risk Evaluation/Corrective Action Program (RECAP).

PROJECT EXPERIENCE

Martin Behrman Elementary School (New Orleans, Louisiana)

Project manager responsible for the performance and coordination of turnkey hazardous materials services for an existing school campus scheduled for renovation/demolition. The project consisted of an approximately 78,000 square feet, three-story school building; an approximately 14,000 square feet, one-story, stand-alone gymnasium; and an approximately 1,400 square feet, single-story auxiliary building. Scope included an asbestos survey, lead-based paint inspection, universal waste survey, mold assessment, limited site investigation of soils. Services performed included: asbestos survey, lead-based paint inspection, universal waste survey, mold assessment, limited site investigation of soils, hazardous materials removal specification, and asbestos abatement oversight and air monitoring.

Meadow Park and Carver Court Apartments (Lake Charles, LA)

Project manager responsible for the performance and coordination of turnkey hazardous materials services for two existing apartment complexes scheduled for renovation. The project consisted of lead-based paint and asbestos inspections of 45 duplex-style units and 76 single-family style units, and management of their subsequent asbestos abatement oversight and air monitoring.

Ursuline Academy Asbestos Abatement (New Orleans, Louisiana)

Project manager responsible for assisting in the project design and managing continuous on-site asbestos abatement observations and air monitoring associated with the school's crawlspace. Abatement consisted of approximately 11,300 square-

feet of crawlspace be cleaned of asbestos-contaminated debris and approximately 200 LF thermal system insulation be removed.

New Orleans Area Schools (New Orleans, Louisiana)

Project manager responsible for the AHERA and LAC Chapter 27 inspections/reinspections of eight local schools; update/creation of their asbestos management plans and O & M plans; designated person/awareness level training of faculty and staff; and assistance bridging communications between the client and the LDEQ.

400 Edwards Warehouse Property (New Orleans, LA)

EDUCATION

Bachelor of Science, Environmental Management Systems, LSU 2015

CERTIFICATIONS

40-Hour HAZWOPER

LDEQ Asbestos Contractor/Supervisor

LDEQ Asbestos Inspector

MDEQ Licensed Asbestos Inspector

MDEQ Asbestos Supervisor

LDEQ Lead-Based Paint Risk Assessor

Transportation Worker Identification Credential (TWIC)

Class A CDL

Training Related to this Contract: LDEQ Asbestos Inspector and Trainer

LDEQ Lead Inspector, Risk Assessor Certified

Instrument Operator Training Heuresis Corporation, Pb200i

Project manager responsible for the performance and coordination of hazardous materials inspections within an approximately 200,000 square foot (s.f.), single story warehouse structure; an approximately 5,034 s.f. two-story garage; and an approximately 1,200 s.f. single-story pump house structure.

Walter L. Cohen Senior High (New Orleans, Louisiana)

Project manager responsible for the performance and coordination of the asbestos, lead, and universal waste survey of an existing, 150,000 square-foot, three-story school campus scheduled for demolition.

Universal Maritime Berth 1

Responsible for the oversight of pre-demolition asbestos abatement of a 24,000 square foot, two-story building. Duties included air monitoring, documentation of daily activities, and corrective action directives to ensure safe work with asbestos.

St. Bernard Wastewater Treatment Plant Pre-Demolition Consulting Services

Responsible for the pre-demolition investigation of wastewater treatment plant facilities throughout St. Bernard Parish. Services rendered included evaluation of surface water and soils for discharge and OSHA considerations; lead-based paint and asbestos surveys; and associated data analysis and reporting.

HUD, via the Louisiana Housing Corporation's Neighborhood Landlord, Multi-family Restoration, and Baton Rouge Rebuilds Programs – Throughout LA*

Project manager responsible for the oversight, coordination, and completion of the NEPA 24 CFR Part 58 Environmental Review Record and associated lead-based paint inspections, asbestos inspections, and Phase I ESA's for 150 projects statewide. Project sizes ranged from renovation to new construction of single-family homes to large-scale multi-family developments within areas impacted by the Louisiana flood events of 2016.

Louisiana Housing Corporation's Small Rental Program and HUD's Restore Louisiana*

Project manager responsible for the oversight, coordination, and completion of combination lead-based paint inspections and risk assessments for over 150 projects statewide.

Artspace Art Lofts: Former Andrew J. Bell School*

Project manager for turnkey services including: lead-based paint and asbestos surveys; abatement design, abatement air monitoring/oversight, and clearances associated with the conversion of a multi-building, multi-story, historic Catholic School into apartments.

Eleanor McMain Secondary School*

Project manager for turnkey services including: lead-based paint and asbestos surveys; abatement design, and air monitoring associated with the renovation of an approximately 100,000 square feet, historic school.

St. Bernard Wastewater Treatment Plant Pre-Demolition Consulting Services

Responsible for the pre-demolition investigation of wastewater treatment plant facilities throughout St. Bernard Parish. Services rendered included evaluation of surface water and soils for discharge and OSHA considerations; lead-based paint and asbestos surveys; and associated data analysis and reporting.

** Project completed with another firm*



Terry L. Adams

LEAD TEAM – SENIOR PROJECT MANAGER

BACKGROUND

Mr. Adams has over 23 years of experience in Environmental Inspections, Assessments, Project Management, and Remediation Designs including asbestos and lead-based paint. He has extensive experience in Air and Clearance Monitoring for asbestos and lead-based paint in commercial and residential settings. Mr. Adams has performed Industrial Hygiene consulting services including fungal investigations, fungal remediation protocols and post-remediation verification clearances.

PROJECT EXPERIENCE

Security Properties University Village – DeKalb, Illinois

Provided professional consulting services including asbestos project design, project management, and air monitoring in support of renovation of four hundred twenty-eight apartments over three phases of work in DeKalb, Illinois. Duties included consulting during each phase of construction, review of inspections performed by others, development of the asbestos protocol for the project, approval of abatement contractor work plans, and abatement contractor pay applications.

Citizen’s Tower – Lubbock, Texas

Provided consulting services for a \$1.5 million project including hazardous materials abatement of a 265,000 square foot office building with 11 stories and basement. Services included asbestos and mold project design, project management, and air monitoring.

Garza County Hospital – Post, Texas

Provide asbestos consulting services, including inspections, abatement design, and remediation phase services along with demolition of building. Assist client in bidding, selection of contractor and preparing required notifications. Project was completed within budget originally proposed. Project duration ran approximately four months.

TTUHSC Job Order Engineering Contract - Various Locations, Texas

Scope of work included environmental inspection, assessment, and remediation design with project management of environmental hazards. Thirty projects per year were completed through the two contract years. Services include inspection, assessment, remediation, design, project management, and air monitoring for projects. Areas of environmental services included asbestos, mold, lead, and others as required for each project.

EDUCATION

Bachelor of General Studies, Texas Tech University, 1991

Associates of Science, Biomedical Electronics, Amarillo College, 1976

CERTIFICATIONS

LDEQ Lead Project Designer

EPA Accredited Asbestos Professional

Training Related to this Contract:
LDEQ Lead Project Designer



Adam McEvoy

ENVIRONMENTAL TECHNICIAN II

BACKGROUND

Mr. McEvoy's experience in conducting initial site investigations for Phase I ESAs makes him capable of identifying Recognized Environmental Conditions (RECs). His typical project experience has ranged from undeveloped land to multi-story office buildings in downtown New Orleans. Terracon's Industrial Hygiene (IH) services is where Mr. McEvoy has truly excelled. Mr. McEvoy is a certified LDEQ Asbestos Contractor/Supervisor and has over seen abatement of asbestos for clients that range from commercial banks, university facilities, and commercial developers. Mr. McEvoy is also versed in lead-based paint sampling and abatement oversight, mold survey and sampling, and waste characterization.

EDUCATION

Grace King High School, Metairie, LA
2009

CERTIFICATIONS

LDEQ Certified Asbestos Inspector

MDEQ Certified Asbestos Inspector

LDEQ Certified Asbestos Contractor/Supervisor

MDEQ Certified Asbestos Air Monitor

OSHA HAZWOPER 40 HOUR

NIOSH 582 Equivalency

LDEQ Lead Inspector

Training Related to this Contract:
LDEQ Asbestos Inspector

LDEQ Asbestos Contractor/Supervisor

LDEQ Lead Inspector

PROJECT EXPERIENCE

Recovery School District - New Orleans, LA

Mr. McEvoy was a team member for asbestos initial inspections and management plan services for multiple school facilities. Mr. McEvoy's data collected during the inspections was then used to develop asbestos management plans for these schools.

LSU Health Sciences Center - New Orleans, LA

Mr. McEvoy has assisted in the oversight of several asbestos abatements that have ranged from small areas of asbestos-containing floor tiles and associated mastic to large scale regulated thermal-system insulation (TSI) abatements.

Linda Boggs/Mercy Hospital - New Orleans, LA

This project site is comprised of multiple buildings consisting of a 450,000-square foot, 10-story hospital constructed in the 1920's and a two-story 20,000-square foot mechanical building. Terracon's involvement in the project included asbestos abatement oversight, air monitoring, and selective bulk sampling. The project was completed over 12 weeks with Mr. McEvoy taking the lead of one of the 12-hour daily shift.

Carver/Abramson School Modular Building Assessment - New Orleans LA

The Carver/Abramson Modular Building Assessment consisted of over 50 separate modular buildings that was used as two school campus sites after hurricane Katrina. He was responsible for aiding the project manager with the inspections at various sites.

Laurel School Abatement - New Orleans, LA

Terracon completed an asbestos and lead-based paint survey well as abatement oversight during renovation activities at selected locations on campus. During asbestos removal activities, Mr. McEvoy assisted with daily air monitoring, abatement observation, visual clearance of abatement work areas, and clearance air sampling.



Jeffrey A. Gurrie, CIH

CERTIFIED INDUSTRIAL HYGIENIST

BACKGROUND

Mr. Gurrie has over 25 years of experience in industrial hygiene consulting services providing a key role in marketing, managing, performing, and delivering projects which meets the needs of clients while promoting and growing the organization. He specializes in consulting for projects related to; asbestos, hazardous materials, indoor environmental quality investigations, radon, lead-based paint investigations, and general industrial hygiene and safety.

PROJECT EXPERIENCE

Hazardous Material Evaluations (Asbestos/Lead/PCB's/Mercury) Past experience includes projects ranging from single source sampling to full scale remediation projects exceeding 750,000 square feet, which include:

- Managed remediation projects to support facility renovations and or demolitions from small scale removals to the decommissioning of power plants in various residential, commercial, institutional, military, and health care settings. Prepared specifications for remediation including use of SpecsIntact for military projects. Remediation efforts included universal waste recycling, asbestos abatement, lead components and lead-based paint, mercury clean-up, PCB removal, and removal of biological wastes.
- Key senior member for hurricane clean-up efforts at private military housing in which 4,600 residential properties were affected. Wrote asbestos and lead-based paint remediation specifications for affected structures. Provided project oversight during remediation.
- Conducted and managed lead risk assessments, clearance surface testing, and lead-based paint inspections for housing receiving HUD funding and other child occupied facilities. Housing consisted of single units, multiple complexes, and high-rise structures. Managed lead paint clean-up operations in child occupied facilities.
- Conducted lead risk assessments for indoor firing ranges. Wrote specifications and managed lead dust clean-up operations. Carver/Abramson School Modular Building Assessment - New Orleans LA
- The Carver/Abramson Modular Building Assessment consisted of over 50 separate modular buildings that was used as two school campus sites after hurricane Katrina. He was responsible for aiding the project manager with the inspections at various sites.

EDUCATION

Bachelors of Science, Chemistry,
Northern Illinois University, 1996

CERTIFICATIONS

ABIH Certified Industrial Hygienist
(CIH) No. 11689 CP

Asbestos Air Sampler
SC No. 22211

North Carolina Asbestos Supervising
Air Monitor (SAM)
NC SAM No. 90158

Asbestos Building Inspector
SC No. 22352
NC No. 11862
Asbestos Project Designer
SC No. 22828
NC No. 40371

Asbestos Management Planner
SC No. MP-00197

Lead Risk Assessor

EPA R-124679-2
NC 120242

Texas DOT – Hazardous Building
Materials Assessment (Lead),
Category 17.6.2

Training Related to this Contract:
Certified Industrial Hygienist



Jeffrey M. Beasley

ENVIRONMENTAL STAFF SCIENTIST

BACKGROUND

Mr. Beasley has been involved in conducting Phase I Environmental Site Assessments (ESA), mold and air sampling, and asbestos abatement oversight and air monitoring, and HUD lead assessments. He has experience in completing asbestos abatement oversight and abatement clearance. Mr. Beasley is a certified asbestos contractor supervisor and has over seen abatement of asbestos for clients that range from commercial banks, university facilities, and commercial developers.

PROJECT EXPERIENCE

Jefferson Parish, Cleary Playground | Metairie, LA (2019)

Terracon aided in the confirmation and removal of asbestos-containing materials (ACM) from a gymnasium and a multi-purpose structure located at the Cleary Playground. Mr. Beasley was responsible for air monitoring during abatement activities. Mr. Beasley worked closely with the abatement contractor and Terracon's project manager to oversee the proper abatement of ACM in accordance with applicable regulations and the project specifications and conducted daily ambient air monitoring and clearance sampling of abatement areas.

St. Paul's Episcopal Church - Shreveport, LA (2019)

Mr. Beasley served as the lead for Limited Mold Assessment within the main Parish Hall and Main Church in the St. Paul's Episcopal Church in Shreveport, Louisiana. Mr. Beasley's services included a physical inspection and assessment of the complaint areas for visual observations of water damage and suspect fungal growth, collection of temperature and relative humidity spot measurements, collection of air samples for mold spores and preparation of a report. The findings and recommendations from this assessment were utilized by contractors for the restoration of the observed impacted materials.

LSU Health Sciences Center - New Orleans, Louisiana

Mr. Beasley assisted with the reinspection surveys and reports for the LSU Health Sciences Center Allied Health / School of Nursing Building, the Lion's Eye Clinic Building, the Medical Education Building, the Resource Center Building and Stanislaus Hall. Mr. Beasley collected suspect ACM samples in general accordance with the sampling protocols outlined in EPA regulation 40 CFR 763 Asbestos Hazard Emergency Response Act (AHERA) and the Louisiana Administrative Code (LAC) 33.3.2709 and 33.3.2711. The survey was performed in accordance with the requirements of LAC 33.3.27, specifically LAC 33.3.2707B and 33.3.2713. Samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

Cleary Playground - Metairie, Louisiana

Terracon aided in the confirmation and removal of asbestos-containing materials (ACM) from a gymnasium and a multi-purpose structure located at the Cleary Playground. Mr. Beasley was responsible for air monitoring during abatement activities.

EDUCATION

Bachelor of Science, Toxicology,
University of Louisiana at Monroe,
Spring 2005

CERTIFICATIONS

LDEQ Asbestos
Contractor/Supervisor

LDEQ Asbestos Inspector

LDEQ Lead Inspector

NIOSH 582 Equivalency Course

Mississippi DEQ Asbestos Air Monitor

Mississippi DEQ Asbestos Inspector

HAZWOPER

MK Environmental Certification

Training Related to this Contract:
LDEQ Asbestos Inspector

LDEQ Asbestos
Contractor/Supervisor

LDEQ Lead Inspector



CERTIFICATIONS

LDEQ Asbestos Contractor/Supervisor

LDEQ Asbestos Inspector

Charles Wilson

OWNER | ENVIRONMENTAL TECHNICIAN

BACKGROUND

Wilson Environmental Services, LLC (WES) is an established environmental consulting company servicing the Louisiana and Gulf Coast Region for 8 years. WES's scope and capabilities comes from a diverse experience throughout the region on various projects ranging from municipal to residential projects. WES is insured and certified in the state of Louisiana and also carry both state and local DBE certificates. WES's greatest strength lies in the ability to service the client's needs in a timely and professional manner while providing the most cost-effective solutions. WES specializes in Indoor Air quality Assessments, Asbestos Abatement Management, and Specialty Environmental Consulting & Testing.

PROJECT EXPERIENCE

WES will assist Terracon with the air monitoring services performed during this contract. For the past five years, WES has partnered with Terracon on multiple projects to assist with air monitoring, subsurface investigations, and hazardous materials surveys. Some projects include:

- 815 Washington Avenue Asbestos Abatement
- Alder Hotel Asbestos Abatement
- Former Winn Dixie Hazardous Materials Survey
- Marais Street and N. Villere Street ROW Subsurface Investigations

Mr. Charles Wilson, owner of WES, has experience conducting Phase I and Phase II ESAs, mold inspections and sampling, soil and groundwater sampling, soil vapor sampling, air quality screening and clearance, asbestos inspections and abatement supervision, asbestos air monitoring and analysis, and Vapor Management Systems (VMS) installation during the construction phase

2. Evidence of the firm's ability to perform the work to include:

Below are detailed summaries of contracts with other government agencies and/or projects with included similar services in size and scope which are requested in this contract and which demonstrate Terracon has the capacity and experience to perform the services requested in this contract by the Parish of Jefferson.



Environmental Consulting Services – City of Alexandria |

ALEXANDRIA, LOUISIANA

Terracon has held an Environmental Consulting contract for professional/consulting services with the City of Alexandria since October 2015 to perform on-call environmental and industrial hygiene consulting services for a variety of municipal, state and federal projects throughout the City of Alexandria. As part of this contract, Terracon worked closely with City officials within the community development department and is responsible for various on-call environmental and industrial hygiene consulting services including general environmental consulting services (i.e. environmental site assessments, risk evaluations, site remediation, etc.), engineering services (i.e. engineering audits, permit precreation, regulatory compliance assistance), industrial hygiene consulting services (i.e. personnel exposure monitoring, health/safety services, asbestos and lead consulting services), and training services (i.e. asbestos, lead and other hazardous materials training).

CLIENT:

City of Alexandria
625 Murray Street
Alexandria, LA

Contact: Shirley Branham, Community
Development Administrator
P: (318) 449-5070
E: cda@cityofalex.com

DATE:

2015 - Present

FEE:

\$264,724 to Date

The City of Alexandria operates an electric peaking station and a natural gas compression station, which are subject to regulatory reporting requirements. As part of this contract, Terracon has assisted the City of Alexandria with the applicable reporting requirements including greenhouse gas emissions reporting, Energy Information Administration (EIA) survey 860 and 923 and annual air emissions inventory (ERIC) reporting.

As part of this contract Terracon has performed comprehensive pre-demolition asbestos inspections for blighted and abandoned houses as part of neighborhood stabilization programs, including groups of up to 25 to 31 properties in one task order, as well as provided lead-based paint inspections as part of the HOME Major Rehab Program for multiple properties, including groups of 10 to 13 properties in one task order. Additionally, Terracon has performed post renovation lead dust clearance sampling in accordance with 2012 U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (the "Guidelines") Chapter 15, Clearance. All of these services were performed under

tight time constraints in order for the City of Alexandria to meet the requirements of their funding grants.

Terracon also performed lead-based paint surveys for homes as part of the Home Rehab program. To date, Terracon has performed a total of 61 pre-demolition asbestos surveys for blighted and abandoned residences, 13 asbestos surveys for local commercial properties, 46 lead-based paint surveys of occupied residences, and 8 post-renovation lead clearance projects. Additionally, Terracon has overseen two large asbestos abatement projects, performed one limited indoor air quality assessment and performed a surface soil sampling and analysis project for the City of Alexandria under this contract.

Indoor Air Quality IDIQ | JEFFERSON PARISH, LOUISIANA

Terracon is contracted by Jefferson Parish to provide scope development, development of protocols and provide as needed consulting and management of projects including water extraction, drying services, structure and contents cleaning, temporary power, documentation restoration, mold remediation, contamination containment, temporary heat or air conditioning, debris removal, temporary board-up, interior tear out, dehumidification and deodorizing. The scope of services required for the assessment and subsequent remediation of water damaged buildings is developed on a site-by-site basis.

Terracon's scope of services also includes assessment of Indoor Air Quality (IAQ) and Limited Mold Assessments. Terracon's scope of services generally includes performing visual observation of accessible interior surfaces; temperature, relative humidity, carbon monoxide (CO) and carbon dioxide (CO₂) data collection; and collecting air samples using a spore trap sampling technique.

Terracon has also conducting environmental quality screening services including interviews with employees and subcontractors, review of safety data sheets (SDS), field screening indoor air, the collection of total volatile organic compound (TVOC) samples from interior utilizing TDT air scan tubes; and the collection of formaldehyde samples utilizing passive area badges.

Other services performed under this contract have included preparation of abatement workplans by a Louisiana Department of Environmental Quality (LDEQ) accredited Asbestos Project Designer to act as a guidance document for the proper and legal abatement of asbestos-containing materials. As part of preparation of the abatement workplan. Terracon also provided a LDEQ accredited Contractor Supervisor to perform daily third-party air monitoring and abatement project oversight during abatement activities. All collected samples were analyzed by Phase Contrast Microscopy (PCM) in accordance with the LDEQ and National Institute for Occupational Safety and Health (NIOSH) Method 7400. Subsequent to final clearance sampling, Terracon performed a final project close-out report.

Additionally, Terracon has scoped full hazardous materials surveys for buildings acquired by Jefferson Parish with the intention of rehabilitating historical properties.

CLIENT:

Jefferson Parish Department of
General Services
200 Derbigny Street, Suite 3300
Gretna, LA 70053

Contact: Anthony Francis, Director
P: (504) 364-2675
E: AnthonyFrancis@jeffparish.net

DATE:

2014 - 2021

FEE:

\$151,000

Stephen's Garage | NEW ORLEANS, LOUISIANA

Terracon was retained to perform environmental consulting services associated with the redevelopment of a five-story parking garage facility which was originally developed in the 1950's as a car dealership/repair shop the site. Previous subsurface investigations and limited hazardous materials serviced were previously performed by others which identified subsurface free-product in the soil, historical underground storage tanks and asbestos and lead-based paint were identified on site.

Terracon prepared and submitted a Corrective Action Plan to LDEQ demonstrating the methods to remove impacted soil. Additionally, Terracon submitted a Notice of Intent to Perform a Closure or Change-In-Service to an Underground Storage Tank System LDEQ to remove the tanks. The CAP and NOI were approved by LDEQ. Terracon also performed an additional hazardous materials survey to include asbestos, lead-based paint and universal wastes to identify quantities and locations of all identified hazardous materials. An abatement specification was prepared by Terracon based on the findings of this survey.

Terracon oversaw the excavation of approximately 62 cubic yards of contaminated soil. Confirmation samples were collected from the sidewalls and bottom to ensure confirm impacted soils had been removed. The analytical results were compared to previously developed MO-1 LRS. The analytical results confirmed successful removal of impacted soils. The findings were submitted LDEQ with a request for No Further Action determination.

Terracon oversaw the removal three underground storage tanks. Tank closure samples were collected in accordance with LDEQ UST Closure Guidance document. Upon completion of tank removal activities, Terracon submitted a Tank Closure report that included the required LDEQ closure document forms. The corrective action activities and tank removal activities received a No Further Action determination from LDEQ.

In conjunction with the soil remediation and UST removal activities, Terracon performed full time third-party asbestos and lead-based paint abatement oversight and air monitoring services. The objective of Terracon's asbestos abatement consulting services was to document the removal of previously confirmed asbestos-containing materials (ACM), lead-based paint (LBP) and other hazardous materials throughout the structure and monitor air quality in accordance with regulatory guidelines and project specifications. A summary of abatement activities with daily field reports and relevant disposal and removal documentation were included in a final close-out report.

Terracon's environmental and hazardous materials consulting services were provided to ensure regulatory compliance was maintained for the project as well as qualify the redevelopment under strict project funding requirements.

CLIENT:

The Lemoine Company
15555 Airline Highway
Baton Rouge, LA 70817

Wisznia Architecture
800 Common Street, Suite 200
New Orleans, Louisiana 70112

DATE:

May 2017 – December 2018

FEE:

\$105,250

HIGHLIGHTS:

- UST Tank Closure
- Corrective Action
- Lead-Based Paint and Asbestos
- Survey and Abatement Oversight and Clearances



Port of New Orleans As-Needed Environmental Consulting Services | **NEW ORLEANS, LOUISIANA**

Terracon is currently under contract to provide as-need environmental site assessments, remediation, and compliance assistance in support of the Port of New Orleans wide-ranging and complex multimodal operations from 2018 through 2022. The Port of New Orleans owns, operates, and maintains extensive real estate and facilities along the Mississippi River to service their diverse national and international client's ever growing and changing transportation and distribution needs. Since the initiation of contract services, Terracon has provided environmental consulting services in various capacities including on-site technical services for asbestos inspections, asbestos abatement design, wastewater sampling and analysis and permitting compliance, and hazardous materials surveys. Port of New Orleans properties that Terracon has provided services include:

- Port of New Orleans Administration Building
- Universal Maritime FRT Berth
- Harmony Street Wharf
- Julie Street Cruise Terminal and Passenger Bridge
- Nashville Wharf
- Harmony Street Wharf, Julie Street Cruise Terminal and Passenger Bridge, Nashville Wharf

To date, Terracon has either completed or is in the process of completing 23 Task Order Projects for the Port of New Orleans since the beginning of our contract.

In addition, Terracon has provided more traditional environmental consulting services to offer carefully reviewed information and guidance to Port staff in their decision-making processes. Terracon has been engaged to review historical and regulatory files and records in support of highly sensitive and confidential proposed property acquisitions. Using extensive professional experience and knowledge of State and Federal regulatory guidelines, Terracon has been able to quickly assess risks, and deliver useful and understandable information vital to the Port of New Orleans' decision-making process.

Terracon is currently engaged in implementing a Work Plan and other permitting services in connection with confidential real estate matters. Further details regarding these services cannot be made available at this time.

CLIENT:

Port of New Orleans
1350 Port of New Orleans Place
New Orleans, LA

Contact: Emily Federer, Environmental Services Manager

E: federerE@portno.com

P: (504) 528-3301

DATE:

October 2018 - Ongoing

FEE:

\$180,000 to-date

Carver Court Apartments | LAKE CHARLES, LOUISIANA

Terracon was contracted to perform a lead-based paint inspection of the Carver Court Apartments, a complex developed with 44 duplex-style structures and offering 88 residential units. These services were requested in connection with planned renovations at the site. Terracon mobilized LDEQ accredited lead inspectors to conduct the lead inspection in accordance with HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Edition) Chapter 7 and the State of Louisiana Title 33 Environmental Quality, Part III. Air; Chapter 28. The lead-based paint surveys included a surface-by-surface evaluation of painted building components to be affected by the proposed renovations, utilizing an X-ray fluorescence (XRF) lead in paint analyzer.

The XRF instrument, owned and maintained by Terracon New Orleans, was used to provide an on-the-spot determination of lead in paint for each testing location selected and will log data from each measurement taken during the inspections.

Terracon's LBP surveys consisted of the dwellings interiors and exteriors including outbuildings.

In addition, Terracon performed a survey for asbestos-containing materials (ACM) because of the United States Environmental Protection Agency (USEPA) regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), and Louisiana Environmental Regulatory Code (ERC) Title 33, Part III, Section 5151 (Chapter 51), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP and Chapter 51 requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition/renovation activities.

Following identification of ACM, Terracon performed 44 days of continuous air monitoring and project observation during asbestos abatement. Terracon's staff are accredited by the LDEQ as contractor supervisors as well as NIOSH 582 equivalency trained. Therefore, they were able to cover this work in accordance with state regulations and analyze samples on site which saved the client time. Terracon prepared one report for each service provided at this site describing the results of each.

CLIENT:

CCM Housing Preservation Development, LP
12629 New Brittany Blvd.
Fort Myers, FL 33907

Ashley Huber
239-989-7096

DATES:

June 2019 – May 2020

HIGHLIGHTS:

Lead-Based Paint Inspections
Asbestos Inspections
Asbestos Abatement Air Monitoring



The NOPSI Hotel New Orleans | NEW ORLEANS, LOUISIANA

Terracon was retained to provide a Hazardous Materials Survey, which included an Asbestos Survey, Lead-Based Paint Survey, a Visual Mold Assessment and a universal Waste Survey, as well as provided Drummed Waste Characterization and Disposal services, Abatement Design / Bid Specifications and Abatement Oversight and Air Monitoring for the Former NOPSI Building located at 317 Baronne Street in downtown New Orleans, Louisiana.

CLIENT:
Building and Land Technology
2200 Atlantic Street, Suite 600
Stamford, CT 06902

DATE:
2015-2017

FEE:
\$400,000

The subject site was formerly known as the New Orleans Public Services (NOPSI) building and the Dryades substation and consists of three contiguous buildings bordered by Union Street on the south, Baronne Street on the east, O’Keefe Avenue on the west and an office building and parking garage on the north, which are planned for major renovation/demolition. These buildings were reportedly constructed in the late 1920’s and underwent various renovations. The site consists primarily of the 8-story former NOPSI building, a 3-story former substation building and a 3-story office building totaling approximately 175,000-square feet (s.f.). The property is proposed to be redeveloped as a hotel with various hotel rooms, kitchens, ballrooms and a rooftop pool and patio which will require major renovation/demolition activities

The purpose of the Hazardous Materials Survey was to identify and quantify hazardous materials that may be present within the subject buildings prior to proposed renovations and redevelopment. As part of the Asbestos Survey Five hundred and 614 bulk samples were collected from 201 homogeneous areas of suspect ACM from the subject buildings. As part of the Lead-Based Paint Survey, a total of 129 XRF readings were taken from testing combinations throughout the interior and exterior of the structure

Results of the Hazardous Materials Survey included that Asbestos was identified in samples of non-friable and friable materials collected at the subject site. Lead was detected in paint at or above the EPA threshold for lead-based paint at the subject site. Universal wastes were identified were identified at the subject site, and visible mold growth was observed at the subject site. Additionally, Terracon collected samples of drummed waste on site for waste characterization for disposal at a state licensed waste facility.

Terracon was able to develop a site-specific project technical specification for the removal and disposal of the identified materials based on the results of the hazardous materials surveys. Terracon worked closely with the building owner and the general contractor during abatement contractor selection. These services included leading a pre-bid walk through of the facility and review of abatement contractor bids.

Terracon will provide a Louisiana Department of Environmental Quality (LDEQ) accredited Asbestos Contractor/Supervisor and LDEQ accredited Lead Supervisor to perform daily third-party air monitoring and abatement project oversight. Project oversight activities will ensure that abatement activities are being conducted in a safe manner that complies with the project technical specification. This abatement is currently on-going.



Drainage Pumping Station No. 17 / Station D |

NEW ORLEANS, LOUISIANA



Terracon Consultants was contracted by the Sewerage and Water Board of New Orleans in August of 2018 to conduct a Lead-Based Paint and Asbestos survey of the Drainage Pumping Station No. 17. The Sewerage and Water Board Drainage Pumping Station No.17 is an approximately 25,200-square foot, two-story steel-framed building with a concrete slab-on-grade foundation, located at 2800 Florida Avenue in New Orleans, Louisiana. The building was reportedly constructed in 1890. The exterior of the structure is brick veneer. The roof is comprised of gabled sheet metal. Interior components generally include drywall gypsum wallboards with joint compound, acoustical ceiling tiles, fiberglass ceiling tiles, and various vinyl floor tiles.

On August 14, 2018, the LBP and asbestos surveys were conducted by a Louisiana-licensed inspector. A total of 30 bulk samples of suspect asbestos materials and 18 bulk paint chip samples were collected from the exterior and interior of the structure. Bulk samples were submitted under chain of custody to EMSL Analytical, Inc.

Laboratory analysis confirmed the presence of asbestos in the exterior window glazing, pipe sealant, and door caulking. Laboratory analysis also indicated that the paint chip samples were below regulatory action standards. Terracon provided recommendations for removal of the asbestos containing materials in accordance with regulatory guidelines. Additionally, Terracon provided recommendations to aid in the implementation of the OSHA Lead in Construction Standards.

Southeast Hospital – Quad D Unit | MANDEVILLE, LOUISIANA

St. Tammany Parish (STP) intended to lease a building within the Southeast Hospital campus to the Parish school board. Internal school board policies dictate the building to be treated as a child occupied space, in which US Housing and Urban Development (HUD) regulations for lead-based paint would apply. In anticipation of this change, a lead-based paint (LBP) survey was required to quantify LBP in the 15,000-square foot building.

During two days in October, the LBP survey was conducted by a Louisiana-licensed lead inspector with training in operation of an X-Ray Florescence (XRF) analyzer. A total of 691 XRF readings were taking from testing combinations throughout the exterior and interior of the structure, including calibration. Visual assessment of the color, location, quantity, and condition of the paint was also recorded.



Results included LBP identified on the exterior wood doors, door frames, and walkway hand rails; and lead-based coatings identified on the ceramic wall tile located in the restrooms and on yellow storage cabinet in one room. Terracon provided recommendations for removal of the LBP in accordance with regulatory guidelines.

CLIENT:

Sewerage and Water Board of New Orleans
Willie Mingo
625 Saint Joseph St., Rm 133
New Orleans, Louisiana 70165-6500
wmingo@swbno.org

DATE:

August 15, 2018 through August 30, 2018

FEE:

\$3,800

CLIENT:

Bruce Crouch
St. Tammany Parish Government
P.O. Box 628, Covington, LA 70343
985-898-2792
bruce@stpgov.org

DATE:

September 2017
November 2017

FEE:

\$4,000

3. List of specific services to be provided, but not limited to:

a. Timeline of Inspections

Notice to Proceed within 3 business days. Sampling activities associated with investigations or risk assessments will be delivered to the laboratory within 24-hours of demobilization from the site.

b. List of other competing contracts that may affect timing of services of the Parish

Terracon's Jefferson office currently holds contracts with the Port of New Orleans, the City of Alexandria, New Orleans Redevelopment Authority, Orleans Parish School Board and the City of New Orleans to perform various environmental services including lead consulting services. Although Terracon provides lead consulting services for these public contracts and for other private clients, our local Jefferson office has multiple lead inspectors and risk assessors, which allows us to handle a large capacity of similar projects without effecting client needs or deadlines. Additionally, Terracon's Jefferson office has an in house XRF lead paint analyzer, which means we do not have to coordinate shipping or renting equipment in order to perform inspections on a quick turn-around.

c. Attach Certification for Risk Assessor, Paint Inspection, Paint Supervisor

A list of applicable LDEQ certifications, including lead inspector, lead risk assessor, lead supervisor and lead project designer are attached in Appendix C.

4. Current Financial Statement 2020

TERRACON CONSULTANTS, INC.

BALANCE SHEET September 5, 2020

ASSETS	
Current Assets:	
Cash and cash equivalents	\$ 70,342,805
Accounts Receivable & Work-in-Progress (net of allowance)	179,349,156
Other Current Assets	299,655
Total Current Assets	249,991,616
Equipment & Leasehold Improvements (net)	35,389,585
Goodwill/Intangible Assets	62,055,629
Other Assets	1,049,733
TOTAL ASSETS	\$ 348,486,563
LIABILITIES	
Current Liabilities:	
Accounts Payable / Accrued Expenses	\$ 98,962,147
Current Portion of Long-Term Debt	3,174,000
Total Current Liabilities	102,136,147
Long Term Debt	19,121,426
Other Non-Current Liabilities	3,193,878
Deferred Income Taxes	36,902,200
TOTAL LIABILITIES	161,353,651
STOCKHOLDER'S EQUITY	187,132,912
TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	\$ 348,486,563

TERRACON CONSULTANTS, INC.

STATEMENT OF INCOME For the Year-to-Date Ended September 5, 2020

REVENUES	\$ 545,424,187
OPERATING EXPENSES	522,735,634
INCOME FROM OPERATIONS	22,688,553
FINANCIAL INCOME (EXPENSE)	
Interest income	225,485
Interest expense	(634,736)
INCOME BEFORE INCOME TAXES	22,279,302
PROVISION FOR INCOME TAXES	5,304,600
NET INCOME	\$ 16,974,702

2019

TERRACON CONSULTANTS, INC.

BALANCE SHEET
December 31, 2019

ASSETS	
Current Assets:	
Cash and cash equivalents	\$ 6,379,820
Accounts Receivable & Contract Assets (net of allowance)	192,475,070
Other Current Assets	2,273,863
Total Current Assets	<u>201,128,753</u>
Equipment & Leasehold Improvements (net)	36,919,673
Goodwill/Intangible Assets	59,366,330
Other Assets	578,092
TOTAL ASSETS	<u>\$ 297,992,848</u>
LIABILITIES	
Current Liabilities:	
Accounts Payable / Accrued Expenses	\$ 64,260,735
Current Portion of Long-Term Debt	3,790,000
Total Current Liabilities	<u>68,050,735</u>
Long Term Debt	18,234,807
Other Non-Current Liabilities	3,547,156
Deferred Income Taxes	41,026,600
TOTAL LIABILITIES	<u>130,859,298</u>
STOCKHOLDER'S EQUITY	<u>167,133,550</u>
TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	<u>\$ 297,992,848</u>

TERRACON CONSULTANTS, INC.

STATEMENT OF INCOME
For the Year Ended December 31, 2019

REVENUES	\$ 804,555,857
OPERATING EXPENSES	<u>774,417,079</u>
INCOME FROM OPERATIONS	30,138,778
FINANCIAL INCOME (EXPENSE)	
Interest income	744,864
Interest expense	<u>(933,495)</u>
INCOME BEFORE INCOME TAXES	29,950,147
PROVISION FOR INCOME TAXES	<u>8,433,000</u>
NET INCOME	<u>\$ 21,517,147</u>

5. References:

Reference #1 Name: Emily Federer
 Company: Port of New Orleans
 Telephone Number: 504-528-3344
 Fax Number: 504-524-4156
 Address: 1350 Port of New Orleans PI, New Orleans, LA 70130

Reference #2 Name: Shirley Branham
 Company: City of Alexandria
 Telephone Number: 318-449-5070
 Fax Number: 318-449-5031
 Address: 625 Murrary Street, Alexandria, Louisiana

Reference #3 Name: Anthony Francis
 Company: Jefferson Parish Department of General Services
 Telephone Number: 504-364-2675
 Fax Number: 504-365-3312
 Address: 625 Murraby Street, Alexandria, Louisiana 200 Derbigny St., Suite 330, Gretna, LA 70053

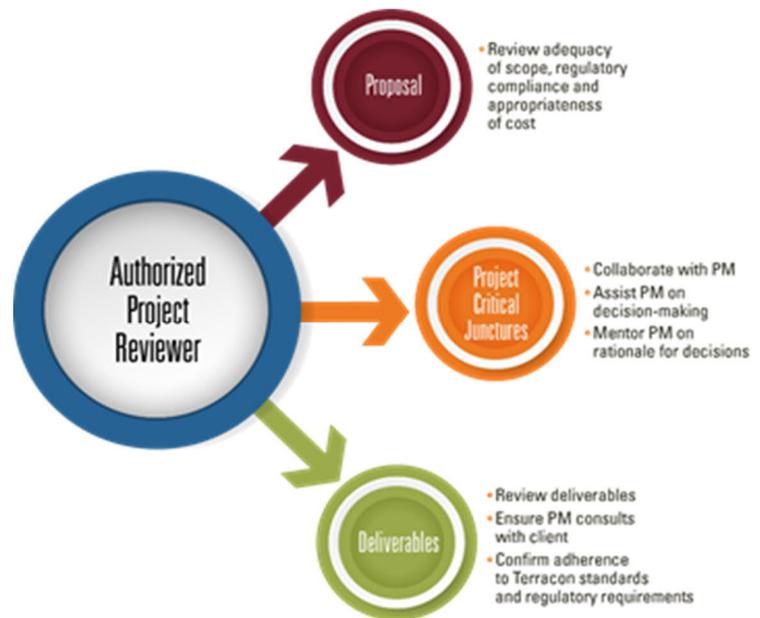
6. Experience meeting schedules on similar projects:

For this contract, we commit to performing all required tasks with the project team listed. The benefit of our other offices will be to provide assistance when necessary to allow our current workload to be accomplished without interruption as a result of this project assignment. This is a common approach that is used by our firm to provide a dedicated focus to a project of this type without slowing progress on other projects.

Terracon anticipates being able to supervise personnel due to the oversight of the Office Manager and direct supervision of all aspects by the Project Manager. With these various levels of supervision, it can be ensured that the needs of the contract are being fulfilled at all times. This team will work closely together to ensure that timely and quality services are provided to Jefferson Parish.

Upon receipt of a task order or request for services, the Project Manager will work with the Office Manager to identify the appropriate personnel to complete the task. Together the Project Manager and the Office Manager will develop a written cost estimate based the requested scope of services utilizing the approved fee schedule with schedule within 3 business days, unless a faster turnaround is requested. The Project Manager will ensure that Terracon will not utilize over-qualified personnel for any specific task; however, based on the service required, many of Terracon’s personnel are cross-trained to allow for a single person to complete multiple tasks; for example, an industrial hygienist conducting a mold inspection is also a certified asbestos inspector, and may collect asbestos samples during the mold inspection. Terracon’s internal financial system provides for this to be tracked by the Project Manager.

The review process of any project deliverable is a critical element of Quality Control and, as such, is a cornerstone of Terracon’s commitment to quality and excellence. Terracon’s Oversight and Quality Review team is comprised of Terracon Approved Project Reviewers (APRs) who are consulted prior to initiating any task or project. This APR is responsible for the quality of entire project from scope and fee estimation and project kick-off through final report deliverables. This Professional has





been approved as an APR by a panel of Terracon industry leaders who evaluate the candidate's background, experience, licenses and certifications, and professionalism to determine if the candidate has the requirements essential to an APR.

Local Strength with Regional Support

Although our New Orleans office has the experience and accredited personnel to perform the required services included in this contract independently, we are made even stronger by our ability to pool resources from adjacent offices. By drawing from neighboring office, we are able to reallocate our resources to meet the most demanding schedules and client expectations.

For example, as part of Terracon's current environmental services contract, the City of Alexandria requested that a total of 31 blighted residences be inspected for asbestos and 11 occupied residences be inspected for lead-based paint. Terracon was able to mobilize LDEQ accredited asbestos and lead inspectors from our New Orleans, Baton Rouge, and Shreveport offices simultaneously to perform these inspections on an expedited turn-around to meet the City's tight bidding schedule.

Another example of Terracon's capacity for large projects is evident in a recent asbestos abatement project for the Port of New Orleans. This abatement consisted of a total of 35 days of asbestos abatement oversight, in which Terracon provided accredited asbestos contractor/supervisors from both our New Orleans and Baton Rouge offices to ensure the project was adequately overseen throughout the duration of the project. *Considering these resources, Jefferson will be assured the prompt and professional attention they deserve.*

On August 27, Hurricane Laura made landfall in southwest Louisiana, damaging properties from the greater Lake Charles area to northwest Louisiana and into Arkansas. Staff from Terracon's New Orleans office mobilized within 24 hours to Southwest Louisiana providing disaster recover services including moisture mapping, hazardous materials surveys including asbestos and lead and restoration protocols. Additional staff were later mobilized from our Lake Charles, Shreveport; Baton Rouge; Houston, Texas; Jackson, Mississippi; Nashville, Tennessee; and Birmingham, Alabama offices to support recovery efforts with hazardous materials and environmental consulting services. A total of 10 inspectors and technicians have been mobilized between these offices with additional staff assisting with coordination and project support from respective offices.

An additional example of Terracon's local experience and responsiveness is our current IDIQ contract with Jefferson Parish to provide Indoor Air Quality Consulting Services and Emergency Response. This contract requires quick responses to various water intrusion events and indoor air quality concerns to protect the Parish property and employees. One instance a major water release was discovered in the Parish Government building, which caused significant damage to multiple floors. Terracon responded within a couple of hours where we immediately began moisture mapping and damage assessments. We developed a mold restoration protocol that day, therefore, restoration activities were able to begin immediately. Terracon was on-site throughout the duration of the project, working with parish representatives and contractors to remediate the building as quickly as possible resulting in substantial

savings to property damage and potential indoor air quality concerns. *We have proven that we can be your trusted partner who will be responsive to your needs.*

SAFETY

Safety is one of Terracon's core values and our commitment to an "Incident and Injury-Free (IIF)" philosophy is one of the pillars of our culture. Successful execution and delivery includes the need to work safely and keep our employees and the public safe **every** day. Terracon is very much a safety-oriented company. We have built health and safety into all aspects of our business and into the thinking of our employees. The culture is continued further in our everyday work culture, with all meetings beginning with an *IIF* moment and safety discussion.

What is Incident and Injury-Free (IIF)?

IIF is about care and concern for people. It is our personal and organizational commitment at all levels of the company to everyone going home safe to their family **every** day. *IIF* is safety as a core value as well as an operational priority. Working safely is an inseparable part of working correctly, just as much as other operational priorities, in particular quality, budget and schedule. *IIF* is our commitment to our people, whom we value for who they are and what they do.

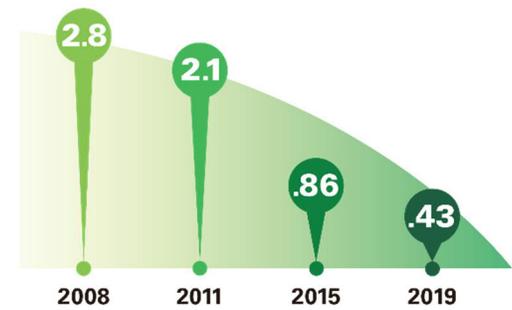
Conducting our work safely means conducting our work in the only acceptable way. Incidents, injuries and accidents will not be viewed as problems to make go away, but as opportunities to strengthen *IIF*. *IIF* is about developing a mindset intolerant of any incidents or injuries no matter how minor or infrequent.

Our Rules to Live By

IIF is about Our Rules to Live By which are at the foundation of Terracon's *IIF* culture. These rules give employees clear, specific ways to stay safe on the job, covering essential aspects of safety including personal protective equipment (PPE), equipment and tools, working at heights and depths, motorized vehicle safety, and reporting of injuries. We regularly follow and discuss Our Rules to Live By in our offices and on job sites to ensure everyone is following these fundamental rules. Our focus on pre-task planning also serves to reinforce this message every day.

We cannot just tell someone to "be safe." We can request of our employees to follow Our Rules to Live By. These rules include pre-task planning for each task every day, as well as follow the safe work practices they have been trained to follow to complete work at a task level. Our Rules to Live By have made a measurable difference in keeping our employees safe and in helping us preserve the trust and business with our clients.

TRIR



Terracon's TRIR* has decreased more than 80 percent in our safety journey. This is accompanying an increase of more than 2,000 employees, demonstrating Terracon's unwavering commitment to build safety and wellbeing into all aspects of our business. Our clients can be assured Terracon employees have a high level of safety awareness extending to every single project and job site so it is safe for your staff, property owners, innocent bystanders, and our staff.

*Terracon uses the standard TRIR calculation of number of OSHA-recordable incidents x 200,000 divided by total employee hours worked.



SECTION E.
INNOVATIVE CONCEPTS



E. Innovative Concepts

Use of Technology for Project Management and Document Delivery

In addition to our personnel and material resources, Terracon has realized that technology is changing the way we do business and with that understanding, we have made a significant investment in technology that provides expediency and efficiency for Terracon staff and our clients.

Construction Materials Engineering Laboratory Management System (CMELMS™)

This system is utilized for project scheduling, collection of field test and inspection data, daily field report preparation, and report distribution. The system is an automated application accessible via smartphone and laptops that allows for real-time document management through Terracon's Client Document Website. This application was originally developed by Terracon for construction materials testing projects but has been incorporated in other services to allow Terracon to provide updated project information that can be accessed by authorized users to stay current with projects such as lead abatements or a portfolio of multiple sites. This system also acts as a repository of any project deliverables so that reports can be easily accessed at any time after being uploaded by the project manager.

Terracon ShareFile System

Terracon utilized a file transfer protocol system known as ShareFile to send large documents easily without exceeding electronic-mail limits, which can slow project communication. The ShareFile system can be used to transfer large files between Terracon and the Parish of Jefferson, or vice versa.

In House XRF Capabilities

Terracon invested in the state-of-the-art Heuresis Pb200i handheld XRF lead paint analyzer which is kept at our New Orleans office. This XRF lead paint analyzer is the smallest, lightest and highest performing lead paint analyzer and is has appositive or negative determination without the need for substrate correction. This means this device does not have an indeterminate zone for results and will not require additional paint chip samples to confirm results, making it the ideal analyzer for this contract should projects include concerns for lead-based paint.



Specialized Investigation Equipment

In addition to XRF lead analyzer, Terracon's local New Orleans office has invested in other advanced equipment that aids Terracon in performing the highest quality inspections and assessments. Examples of these specialized investigation equipment which are available to our experienced environmental staff includes a Q-Trak Indoor Air Quality (IAQ) Meter, additional IAQ meters, moisture probes, multiple Flir infrared thermal imaging cameras, a digital boroscope, and other sampling equipment.

- The Q-Trak IAQ Meter is utilized to take various indoor air quality parameters simultaneously, including Temperature, Relative Humidity, Carbon Monoxide and Carbon Dioxide. This meter allows our inspectors to collect a significant amount of data in a short amount of time which can be compared to readings collected in employee complaint areas, non-complaint areas and exterior areas to assist in recommendations during IAQ assessments.
 - In addition to the Q-Trak IAQ Meter, Terracon has also invested in additional 5 sets of IAQ meters and moisture probes. Terracon prides itself as a disaster recover consultants and has invested in a surplus of industrial hygiene equipment to ensure Terracon has capacity to respond to disasters and large water intrusion events to

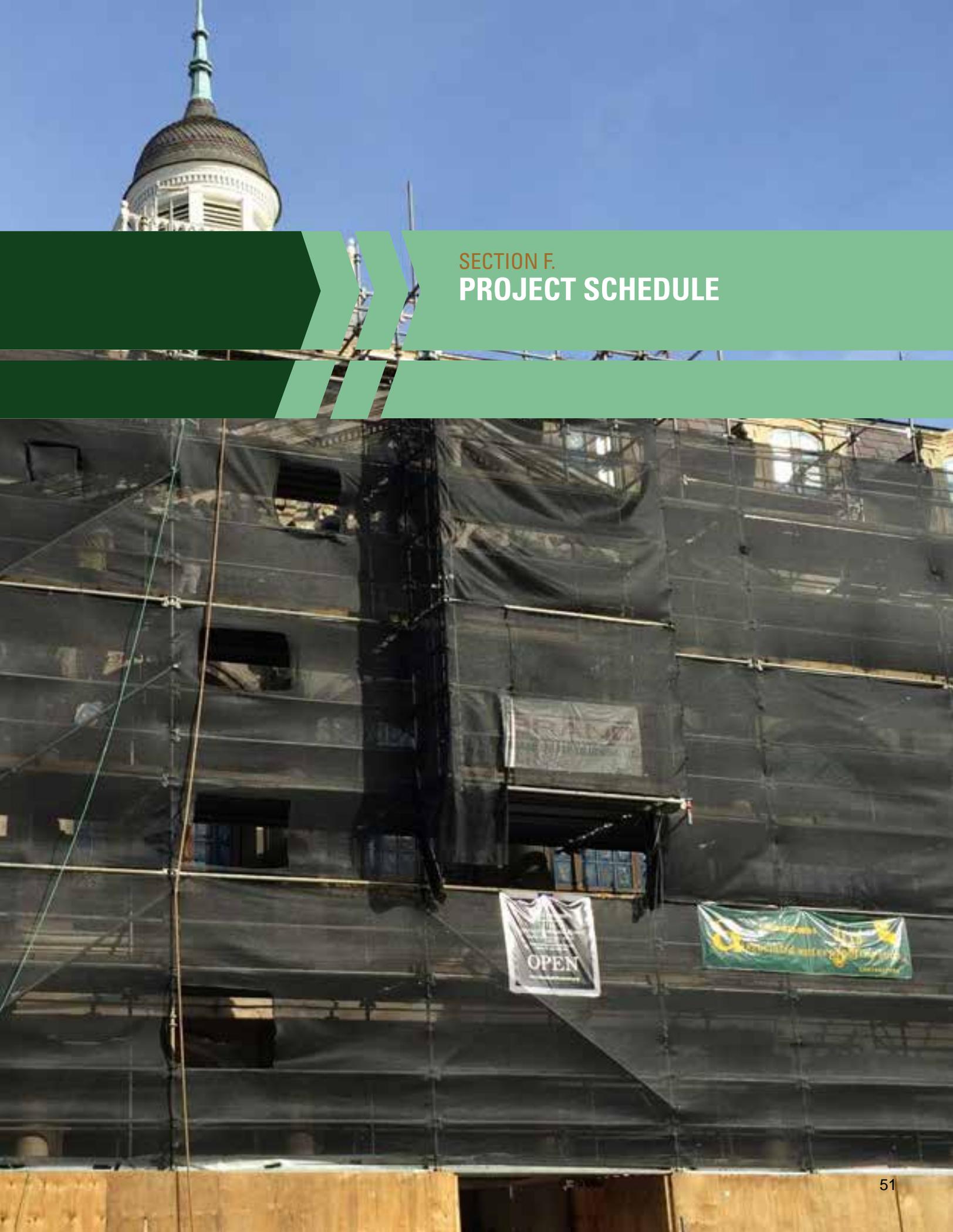
support the needs of our clients.

- The Flir infrared thermal imaging camera is an invaluable tool which our environmental staff utilize in a variety of assessments and investigations to observe temperature gradients and potential water intrusion issues in building materials without performing more intrusion or destructive investigation techniques.
 - Terracon's New Orleans office has invested in 5 Flir infrared thermal imaging cameras.
- A digital boroscope is a valuable investigation tool that includes a digital camera and LED light source at the end of a long and rigid probe which is connected to a color display screen. This tool can be used to inspect hard to access crawl spaces, HVAC equipment or ducts, wall cavities, etc. Digital still images can be saved and utilized in investigation reports.
- Our office maintains a large supply of sampling supplies and sampling media, which allows our team to perform a variety of investigations or sample types at a moment's notice.
- Terracon owns the following equipment which may be utilized under this contract: moisture meter, photoionization detector (PID), turbidity/pH meter, low flow sampling pumps, high flow sampling pumps, microscope kits, etc.



Capacity for Asbestos and Lead Services

As discussed previously, Terracon takes significant pride in our ability to provide experienced and accredited asbestos and lead personnel to meet our client's schedule and needs. Terracon has multiple accredited staff for asbestos and lead disciplines to ensure that simultaneous projects can be adequately staffed without client delay. For example, our local New Orleans office has appropriately accredited and trained staff with sufficient equipment (ie materials, pumps, and microscopes) to staff at least 5 concurrent asbestos abatements while maintaining project management and quality oversight.



SECTION F.
PROJECT SCHEDULE

F. Project Schedule

- F. Project Schedule: Detailed schedule of implementation plan and full implementation. This scheduled is to include implementation actions, timelines, responsible parties, etc. Please note that requests for services from the JPDCD will come in the form of task orders which will describe the scope of work, deliverables, budget, and schedule. The completion of each task order shall constitute a separate deliverable.

Terracon is prepared to meet all requirements and timeframes set by Jefferson Parish. The capacity to complete a project in the required time requires strong leadership and a successful communication plan. Our past success is based on demonstrated leadership capabilities, and the ability to manage resources for a successful project. This is achieved through the assembly of a team across multiple disciplines, each with specific individuals that will contribute to the overall successful completion of the assignments given under this contract.

Task Order Approach

For this project, we commit to performing all required tasks with the project team listed and utilizing Terracon's wealth of experience nationwide. The benefit of our other offices will be to provide assistance when necessary to allow our current workload to be accomplished without interruption as a result of this project assignment. This is a common approach that is used by our firm to provide a dedicated focus to a project of this type without slowing progress on other projects.

Terracon anticipates being able to supervise personnel due to the oversight of the Technical Support, Approved Project Reviewer and direct supervision of all aspects by the Project Manager. With these various levels of supervision, it can be ensured that the needs of the contract are being fulfilled at all times. As with similar contracts of this nature, Terracon is committing a project manager and an assistant project manager, who together will serve as the Point-of-Contact. **Jason Maloney, PE** will serve as the **Main Point of Contact** and **Project Manager**. **Stephen Latiolais** will serve as the **Assistant Project Manager**. *Our team will work closely together to ensure that timely and quality services are provided to all task orders assigned by the Parish.*

Upon receipt of a task order or Notice to Proceed, **Jason Maloney, PE** the Point-of-Contact and Project Manager will identify the appropriate personnel to complete the task. Terracon understands that emergency situations may be occur, in which case the Parish will provide verbal authorization for the initial task order, which will be followed by a formal Task Order and Notice to Proceed.

Once the scope of work is approved, the project manager, **Jason Maloney, P.E.**, will assign dedicated field staff and will coordinate field activities with the Parish and other contractors and site contacts as needed. Due to Terracon's bench strength of experienced local staff, subconsultants and pool of additional staff in adjacent offices, Terracon can ensure that the most appropriate staff are available to execute the project scope. Terracon understands that the health, wellbeing and schedules of staff and the public are the upmost priority for this contract. Terracon understands that this means that often times project activities may be



scheduled for off-hours or weekends, and therefore, Terracon has dedicated sufficient experienced and accredited staff and to meet the needs of multiple simultaneous projects no matter when these projects are scheduled.

Additionally, Terracon understands that many projects may require initial site visits, visual assessments or attendants of pre-bid and/or pre-con meetings to support project development and planning. Terracon is prepared to provide the necessary staff and support to facilitate these needs.

Standard timeframes for non-emergency tasks will include an on-site response by appropriate personnel to each Notice to Proceed within 2 business days. Sampling activities associated with investigations or risk assessments will be delivered to the laboratory within 24-hours of demobilization from the site.

Terracon understands that every effort must be made to complete inspections, risk assessments, and write ups within one week of official Notice to Proceed.

Responsive Resources

All of the key personnel are located in our local Jefferson office with additional staff in nearby offices and have the ability to quickly respond to Parish of Jefferson requests. By having our key personnel local, the Terracon team not only has local professionals who are fully aware of the importance of this contract to the entire region, but also brings an understanding of the environmental issues that will be encountered as part of this contract.

Terracon's local Jefferson office has the experience, staff and equipment necessary to perform all aspects of environmental consulting services requested in this contract. Terracon's regional offices and national resources provides additional bench strength to support multiple projects at any given time and quick response to meet the Parish of Jefferson's needs and expertise to assist with unique and challenging projects.

Terracon has included WES as teaming partners for this contract. Terracon will be able to provide supplementary staff and experience as well as all of the required laboratory analysis to meet the Parish of Jefferson's overall requirements in a and cost-effective manner.



SECTION G. FINANCIAL PROFILE



G. Financial Profile

2020

TERRACON CONSULTANTS, INC.

BALANCE SHEET September 5, 2020

ASSETS	
Current Assets:	
Cash and cash equivalents	\$ 70,342,805
Accounts Receivable & Work-in-Progress (net of allowance)	179,349,156
Other Current Assets	299,655
Total Current Assets	<u>249,991,616</u>
Equipment & Leasehold Improvements (net)	35,389,585
Goodwill/Intangible Assets	62,055,629
Other Assets	1,049,733
TOTAL ASSETS	<u>\$ 348,486,563</u>
LIABILITIES	
Current Liabilities:	
Accounts Payable / Accrued Expenses	\$ 98,962,147
Current Portion of Long-Term Debt	3,174,000
Total Current Liabilities	<u>102,136,147</u>
Long Term Debt	19,121,426
Other Non-Current Liabilities	3,193,878
Deferred Income Taxes	36,902,200
TOTAL LIABILITIES	<u>161,353,651</u>
STOCKHOLDER'S EQUITY	<u>187,132,912</u>
TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	<u>\$ 348,486,563</u>

TERRACON CONSULTANTS, INC.

STATEMENT OF INCOME For the Year-to-Date Ended September 5, 2020

REVENUES	\$ 545,424,187
OPERATING EXPENSES	<u>522,735,634</u>
INCOME FROM OPERATIONS	22,688,553
FINANCIAL INCOME (EXPENSE)	
Interest income	225,485
Interest expense	<u>(634,736)</u>
INCOME BEFORE INCOME TAXES	22,279,302
PROVISION FOR INCOME TAXES	<u>5,304,600</u>
NET INCOME	<u>\$ 16,974,702</u>

TERRACON CONSULTANTS, INC.

BALANCE SHEET
December 31, 2019

ASSETS	
Current Assets:	
Cash and cash equivalents	\$ 6,379,820
Accounts Receivable & Contract Assets (net of allowance)	192,475,070
Other Current Assets	2,273,863
Total Current Assets	<u>201,128,753</u>
Equipment & Leasehold Improvements (net)	36,919,673
Goodwill/Intangible Assets	59,366,330
Other Assets	578,092
TOTAL ASSETS	<u>\$ 297,992,848</u>
LIABILITIES	
Current Liabilities:	
Accounts Payable / Accrued Expenses	\$ 64,260,735
Current Portion of Long-Term Debt	3,790,000
Total Current Liabilities	<u>68,050,735</u>
Long Term Debt	18,234,807
Other Non-Current Liabilities	3,547,156
Deferred Income Taxes	41,026,600
TOTAL LIABILITIES	<u>130,859,298</u>
STOCKHOLDER'S EQUITY	<u>167,133,550</u>
TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	<u>\$ 297,992,848</u>

TERRACON CONSULTANTS, INC.

STATEMENT OF INCOME
For the Year Ended December 31, 2019

REVENUES	\$ 804,555,857
OPERATING EXPENSES	<u>774,417,079</u>
INCOME FROM OPERATIONS	30,138,778
FINANCIAL INCOME (EXPENSE)	
Interest income	744,864
Interest expense	<u>(933,495)</u>
INCOME BEFORE INCOME TAXES	29,950,147
PROVISION FOR INCOME TAXES	<u>8,433,000</u>
NET INCOME	<u>\$ 21,517,147</u>

2018

TERRACON CONSULTANTS, INC.

BALANCE SHEET
December 31, 2018

ASSETS	
Current Assets:	
Cash and cash equivalents	\$ 14,110,534
Accounts Receivable & Work-in-Progress (net of allowance)	181,393,090
Other Current Assets	3,071,205
Total Current Assets	<u>198,574,829</u>
Equipment & Leasehold Improvements (net)	37,477,902
Goodwill/Intangible Assets	64,177,036
TOTAL ASSETS	<u>\$ 300,229,767</u>
LIABILITIES	
Current Liabilities:	
Accounts Payable / Accrued Expenses	\$ 73,487,556
Current Portion of Long-Term Debt	5,650,000
Total Current Liabilities	<u>79,137,556</u>
Long Term Debt	18,457,906
Deferred Rent	3,437,448
Deferred Income Taxes	37,393,300
TOTAL LIABILITIES	<u>138,426,210</u>
STOCKHOLDER'S EQUITY	<u>161,803,557</u>
TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	<u>\$ 300,229,767</u>

TERRACON CONSULTANTS, INC.

STATEMENT OF INCOME
For the Year-to-Date Ended December 31, 2018

REVENUES	\$ 751,762,793
OPERATING EXPENSES	<u>721,650,692</u>
INCOME FROM OPERATIONS	30,112,101
FINANCIAL INCOME (EXPENSE)	
Interest income	670,364
Interest expense	<u>(842,957)</u>
INCOME BEFORE INCOME TAXES	29,939,508
PROVISION FOR INCOME TAXES	<u>7,797,000</u>
NET INCOME	<u>\$ 22,142,508</u>

2017

TERRACON CONSULTANTS, INC.

BALANCE SHEET
December 31, 2017

ASSETS	
Current Assets:	
Cash and cash equivalents	\$ 5,822,362
Accounts Receivable & Work-in-Progress (net of allowance)	173,942,591
Other Current Assets	2,819,817
Total Current Assets	<u>182,584,770</u>
Equipment & Leasehold Improvements (net)	31,605,794
Goodwill / Intangible Assets	69,360,525
Other Assets	-
TOTAL ASSETS	<u>\$ 283,551,089</u>
LIABILITIES	
Current Liabilities:	
Accounts Payable / Accrued Expenses	\$ 64,594,152
Current Portion of Long-Term Debt	16,900,000
Total Current Liabilities	<u>81,494,152</u>
Long Term Debt	6,573,230
Deferred Rent	1,794,796
Deferred Income Taxes	39,045,400
TOTAL LIABILITIES	<u>128,907,578</u>
STOCKHOLDER'S EQUITY	<u>154,643,511</u>
TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	<u>\$ 283,551,089</u>

TERRACON CONSULTANTS, INC.

STATEMENT OF INCOME
For the Year Ended December 31, 2017

REVENUES	\$ 654,895,042
OPERATING EXPENSES	<u>628,501,993</u>
INCOME FROM OPERATIONS	26,393,049
FINANCIAL INCOME (EXPENSE)	
Interest income	100,026
Interest expense	<u>(854,238)</u>
INCOME BEFORE INCOME TAXES	25,638,837
PROVISION FOR INCOME TAXES (including impact of enacted changes in tax laws of \$18,800,700)	<u>(7,593,000)</u>
NET INCOME	<u>\$ 33,231,837</u>



APPENDIX A
**CORPORATE AUTHORITY &
CERTIFICATE OF INSURANCE**



CORPORATE RESOLUTION OF AUTHORITY

Please be advised that Zack L. Dial is the Office Manager for the New Orleans office of Terracon Consultants, Inc. Mr. Dial is authorized to execute contracts on behalf of Terracon Consultants, Inc. for services to be provided by Terracon Consultants, Inc.



Patrick L. Courtney, Assistant Corporate Secretary

January 15, 2020

Date





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/1/2021

12/20/2019

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 have ADDITIONAL INSURED provisions or 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 Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME:	
	PHONE (A/C. No. Ext):	FAX (A/C. No):
	E-MAIL ADDRESS:	
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A:	Lexington Insurance Company	19437
INSURER B:	Travelers Property Casualty Co of America	25674
INSURER C:	The Travelers Indemnity Company	25658
INSURER D:		
INSURER E:		
INSURER F:		

COVERAGES TERCO01 CERTIFICATE NUMBER: 13881552 REVISION NUMBER: XXXXXXXX

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.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CONTRACTUAL LIAB <input checked="" type="checkbox"/> XCU COVERAGE GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:	N	N	TC2J-GLSA-1118L293	1/1/2020	1/1/2021	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	N	N	TC2J-CAP-131J3858	1/1/2020	1/1/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
B B	<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 \$	N	N	ZUP-91M46583 (EXCLUDES PROF. LIAB.)	1/1/2020	1/1/2021	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$ XXXXXXXX
B C	<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	Y/N N	N/A	TC2J-UB-6N32541-0 (AOS) TRK-UB-6N32384-6 (AZ,MA,WI)	1/1/2020 1/1/2020	1/1/2021 1/1/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	PROFESSIONAL LIABILITY	N	N	26030216	1/1/2020	1/1/2021	\$1,000,000 EACH CLAIM & \$1,000,000 ANNUAL AGGREGATE

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

PROOF OF COVERAGE. THE UMBRELLA LIABILITY IS FOLLOW FORM OVER THE GENERAL LIABILITY, AUTO LIABILITY, AND EMPLOYER'S LIABILITY PER THE POLICY TERMS, CONDITIONS, AND EXCLUSIONS.

CERTIFICATE HOLDER

13881552
SPECIMEN

CANCELLATION

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

Joseph M. Agnello

© 1988-2015 ACORD CORPORATION. All rights reserved.

State Licensing Board for Contractors

This is to Certify that:

TERRACON CONSULTANTS, INC.
2822-B O'Neal Lane
Baton Rouge, LA 70816

is duly licensed and entitled to practice the following classifications

SPECIALTY: HAZARDOUS WASTE TREATMENT OR REMOVAL



Expiration Date: December 19, 2021

License No: 55821

Witness our hand and seal of the Board dated,
Baton Rouge, LA 20th day of December 2018

Will S. Mott

Director

See Mallett

Chairman

Andy [unclear]

Treasurer

This License Is Not Transferrable

A photograph of a red metal structure, possibly a water tank or pipe, with two white pipes extending downwards. The structure shows signs of weathering and rust. The ground is covered with gravel, dried grass, and a black plastic cap. A green banner with white text is overlaid on the right side of the image.

APPENDIX B
REQUIRED FORMS

Request for Proposal

AFFIDAVIT

STATE OF Louisiana

PARISH/COUNTY OF Parish of Jefferson

BEFORE ME, the undersigned authority, personally came and appeared: _____

Zack L. Dial, P.E., (Affiant) who after being by me duly sworn, deposed and said that

he/she is the fully authorized Representative of Terracon Consultants, Inc. (Entity),

the party who submitted a proposal in response to RFP Number 0414, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A X Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B _____ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Affiant further said:

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

Solicitation of Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all elected officials of the Parish of Jefferson, whether still holding office at the time of the affidavit or not, where the elected official, individually, either by **telephone or by personal contact**, solicited a campaign contribution or other monetary consideration from the Entity, including the Entity's officers, directors and owners, and employees owning twenty-five percent (25%) or more of the Entity, during the two-year period immediately preceding the date the affidavit is signed. Further, to the extent known to the Affiant, the date of any such solicitation is included on the attached list.

Choice B X there are **NO** solicitations for campaign contributions which would require disclosure under Choice A of this section.

Affiant further said:

Subcontractor Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A X Affiant further said that attached is a listing of all subcontractors, excluding full time employees, who may assist in providing professional services for the aforementioned RFP.

Choice B _____ There are **NO** subcontractors which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant 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 the Affiant 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 Affiant; and

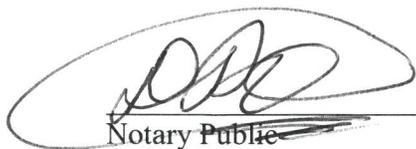
That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.


Signature of Affiant

Zack L. Dial, P.E., Office Manager / Sr. Associate
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 17 DAY OF Nov, 2020.


Notary Public

Donald P. Di Maggio
Printed Name of Notary

33195
Notary/Bar Roll Number

My commission expires on my death



Terracon Consultants, Inc.
Jefferson Parish Campaign Contributions List

Campaign Name	Date	Amount
Deano Bonano Campaign	11/13/2019	\$600.00
	08/31/2020	\$750.00
Campaign of Dominick Impastato	08/20/2018	\$600.00
	10/23/2018	\$500.00
	08/12/2019	\$750.00
Campaign of Jennifer Van Vrancken	08/09/2018	\$600.00
	07/18/2019	\$750.00
	05/2020	\$750.00
Campaign of Paul Johnson	2016	\$500.00
Campaign of Ben Zahn	2016	\$500.00





Terracon Consultants, Inc.
Subconsultant List

Terracon has included **Wilson Environmental Services LLC.** as a subconsultant on this proposal. Company information and required signature forms can be found in the proposal.

Terracon Consultants, Inc. 524 Elmwood Park Blvd., Ste. 170 New Orleans, LA 70123
P (504) 818 3638 F (504) 818 3890 terracon.com

Environmental



Facilities



Geotechnical



Materials

Contractor Certification

Contractor's Name: Terracon Consultants, Inc.

Certification Regarding Debarment, Suspension, and Other Responsibility Matters In Primary Covered Transactions

1. The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction;
- c. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- d. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission or any of the offense enumerated in paragraph (1)(b) of this certification; and
- e. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Name and Title of Authorized Representative: Zack "Lem" Dial, PE

Signature:  Date: 11-20-2020

Anti-Lobbying Form

CERTIFICATION OF RESTRICTIONS ON LOBBYING

Zack "Lem" Dial, PE |

I, Sr. Associate, Office Manager, hereby certify on
(name and title of bidder's official)

behalf of Terracon Consultants, Inc. that:
(name of bidder)

- (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. 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.

Executed this 20 day of November, 2020.

By Zack J. Dial
(signature of authorized official)

Office Manager | Sr. Associate
(title of authorized official)

MINORITY BUSINESS INQUIRY/CHARACTERISTIC FORM

Small, Minority, Women-Owned and/or Section 3 Business Concern Representation

The bidder represents and certifies as part of its bid that it;

(a) is, is not a small business concern. "Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding, and qualified as a small business under the criteria and size standards in 13 CFR 121.

(b) is, is not a women-owned business. "Women-owned business enterprise," as used in this provision, means a business that is at least 51 percent owned by a woman or women who are U.S. citizens and who also control and operate the business.

(c) is, is not a minority business enterprise. "Minority business enterprise," as used in this provision, means a business which is at least 51 percent owned or controlled by one or more minority group members or, in the case of a publicly owned business, at least 51 percent of its voting stock is owned by one or more minority group members, and whose management and daily operations are controlled by one or more such individuals. For the purpose of this definition, minority group members are:

(Check the block applicable to you)

- Black Americans Asian Pacific Americans Hispanic Americans
- Asian Indian Americans Native Americans Hasidic Jewish Americans

Employee Owned

(d) is, is not a bonafide Section 3 Company. "Section 3 company," as used in this provision, means that it meets the following definition:

1. 51% or more of the ownership of this company is owned by Section 3 residents, as defined by HUD.
2. Currently, at least 30% of the employees of the company are Section 3 residents, as defined by HUD.
3. At least 30% of the employees of the company were Section 3 residents, as defined by HUD, within three years of the date of first employment with this company.
4. I commit to subcontract at least 25% of the total value of this contract to Section 3 subcontractors, as these companies are defined above, and to provide the necessary evidence to substantiate this, prior to the award of contract.

Name and Title of Authorized Representative: Zack "Lem" Dial, PE

Office Manager | Sr. Associate

Signature: 

Date: 11-20-2020

Request for Proposals #0414

Project Description

SIGNATURE PAGE

The Jefferson Parish Department of Purchasing is soliciting Request for Proposals (RFP'S) from qualified proposers who are interested in **conducting an assessment of fair housing** in Jefferson Parish for the Jefferson Parish Department of Community Development.

Request for Proposals will be received until 4:30 p.m. Local Time on: November 30, 2020

Acknowledge Receipt of Addenda: Number: _____
Number: _____
Number: _____
Number: _____
Number: _____
Number: _____

Name of Proposer: Terracon Consultants, Inc.

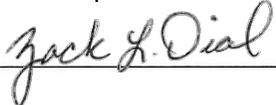
Address: 524 Elmwood Park Blvd, Suite 170

New Orleans, Louisiana 70123

Phone Number: 504-818-3638 Fax Number 504-818-3690

Type Name of Person Authorized to Sign: Zack "Lem" Dial, PE

Title of Person Authorized to Sign: Sr. Associate | Office Manager

Signature of Person Authorized to Sign: 

Email Address of Person Authorized to Sign: lem.dial@terracon.com

Date: 11/30/2020

This RFP signature page must be signed by an authorized Representative of the Company/Firm for proposal to be valid. Signing indicates you have read and comply with the Instructions and Conditions.

Request for Proposal

AFFIDAVIT

STATE OF Louisiana

PARISH/COUNTY OF Parish of Jefferson

BEFORE ME, the undersigned authority, personally came and appeared: _____

Charles Wilson, (Affiant) who after being by me duly sworn, deposed and said that

he/she is the fully authorized Representative of Wilson Environmental Services LLC (Entity),

the party who submitted a proposal in response to RFP Number 0414, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Affiant further said:

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

Solicitation of Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all elected officials of the Parish of Jefferson, whether still holding office at the time of the affidavit or not, where the elected official, individually, either by **telephone or by personal contact**, solicited a campaign contribution or other monetary consideration from the Entity, including the Entity's officers, directors and owners, and employees owning twenty-five percent (25%) or more of the Entity, during the two-year period immediately preceding the date the affidavit is signed. Further, to the extent known to the Affiant, the date of any such solicitation is included on the attached list.

Choice B X there are **NO** solicitations for campaign contributions which would require disclosure under Choice A of this section.

Affiant further said:

Subcontractor Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

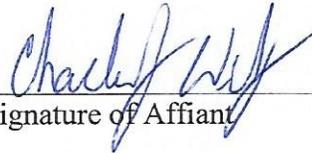
Choice A _____ Affiant further said that attached is a listing of all subcontractors, excluding full time employees, who may assist in providing professional services for the aforementioned RFP.

Choice B X There are **NO** subcontractors which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant 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 the Affiant 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 Affiant; and

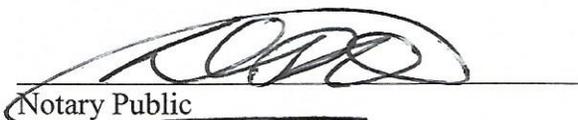
That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



Signature of Affiant

Charles Wilson / Owner
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 23 DAY OF Nov, 2020.


Notary Public

David P. DiMaggio
Printed Name of Notary

33195
Notary/Bar Roll Number

My commission expires on my death



Contractor Certification

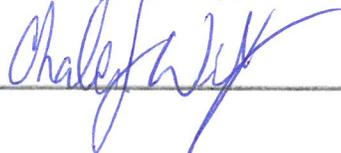
Contractor's Name Wilson Environmental Services LLC

**Certification Regarding
Debarment, Suspension, and Other Responsibility Matters
In Primary Covered Transactions**

1. The prospective contractor certifies to the best of its knowledge and belief, that it and its principals
- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction;
 - c. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - d. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission or any of the offense enumerated in paragraph (1)(b) of this certification; and
 - e. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Name and Title of Authorized Representative: Charles Wilson

Signature:  _____ Date: 11-23-2020

Anti-Lobbying Form

CERTIFICATION OF RESTRICTIONS ON LOBBYING

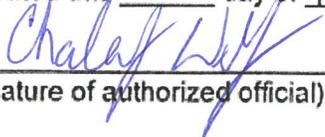
I, Charles Wilson, hereby certify on
(name and title of bidder's official)

behalf of Wilson Environmental Services, LLC that:
(name of bidder)

- (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-L.L.L., "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. 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.

Executed this 23 day of November, 2020.

By 
(signature of authorized official)

Owner
(title of authorized official)

MINORITY BUSINESS INQUIRY/CHARACTERISTIC FORM

Small, Minority, Women-Owned and/or Section 3 Business Concern Representation

The bidder represents and certifies as part of its bid that it;

(a) is, is not a small business concern. "Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding, and qualified as a small business under the criteria and size standards in 13 CFR 121.

(b) is, is not a women-owned business. "Women-owned business enterprise," as used in this provision, means a business that is at least 51 percent owned by a woman or women who are U.S. citizens and who also control and operate the business.

(c) is, is not a minority business enterprise. "Minority business enterprise," as used in this provision, means a business which is at least 51 percent owned or controlled by one or more minority group members or, in the case of a publicly owned business, at least 51 percent of its voting stock is owned by one or more minority group members, and whose management and daily operations are controlled by one or more such individuals. For the purpose of this definition, minority group members are:

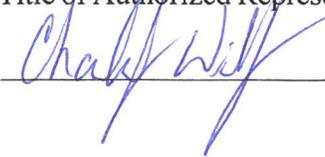
(Check the block applicable to you)

- Black Americans Asian Pacific Americans Hispanic Americans
- Asian Indian Americans Native Americans Hasidic Jewish Americans

(d) is, is not a bonafide Section 3 Company. "Section 3 company," as used in this provision, means that it meets the following definition:

1. 51% or more of the ownership of this company is owned by Section 3 residents, as defined by HUD.
2. Currently, at least 30% of the employees of the company are Section 3 residents, as defined by HUD.
3. At least 30% of the employees of the company were Section 3 residents, as defined by HUD, within three years of the date of first employment with this company.
4. I commit to subcontract at least 25% of the total value of this contract to Section 3 subcontractors, as these companies are defined above, and to provide the necessary evidence to substantiate this, prior to the award of contract.

Name and Title of Authorized Representative: Charles Willson- Owner
WES

Signature:  Date: 11-23-2020

Request for Proposals #0414

Project Description

SIGNATURE PAGE

The Jefferson Parish Department of Purchasing is soliciting Request for Proposals (RFP'S) from qualified proposers who are interested in **conducting an assessment of fair housing** in Jefferson Parish for the Jefferson Parish Department of Community Development.

Request for Proposals will be received until 4:30 p.m. Local Time on: November 30, 2020

Acknowledge Receipt of Addenda: Number: _____
Number: _____
Number: _____
Number: _____
Number: _____
Number: _____

Name of Proposer: Wilson Environmental Services LLC

Address: 2454 Benefit Street

New Orleans, LA 70122

Phone Number: 225.806.5691 Fax Number _____

Type Name of Person Authorized to Sign: Charles Wilson

Title of Person Authorized to Sign: Owner

Signature of Person Authorized to Sign:  _____

Email Address of Person Authorized to Sign: wilsonenvironmentalservicesllc@yahoo.com

Date: 11/23/2020

This RFP signature page must be signed by an authorized Representative of the Company/Firm for proposal to be valid. Signing indicates you have read and comply with the Instructions and Conditions.



APPENDIX C
CERTIFICATIONS



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Jason M Maloney

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

Lead Inspector

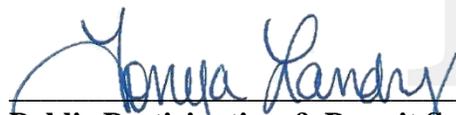
Accreditation No. OI178742

AI No. 178742

Date of Issuance November 16, 2020

Expiration October 15, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division
Office of Environmental Services

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Jason M Maloney

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

Lead Risk Assessor

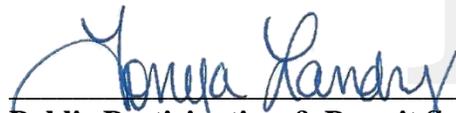
Accreditation No. OR178742

AI No. 178742

Date of Issuance November 16, 2020

Expiration October 14, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division
Office of Environmental Services

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Jason M Maloney

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

Lead Project Supervisor

Accreditation No. DS178742

AI No. 178742

Date of Issuance December 2, 2019

Expiration December 2, 2020

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.

Paul Bergeron

Public Participation & Permit Support Division
Office of Environmental Services

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Jason M Maloney

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

Asbestos Inspector

Accreditation No. JI178742

AI No. 178742

Date of Issuance January 23, 2020

Expiration January 3, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.

Paul Bergeron

Permit Support Services Division
Office of Environmental Services

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Jeff M Beasley

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

Lead Inspector

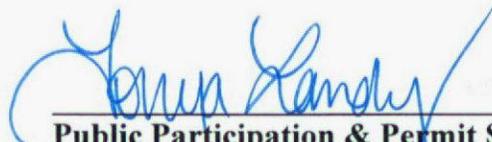
Accreditation No. MI140349

AI No. 140349

Date of Issuance May 27, 2020

Expiration March 30, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division
Office of Environmental Services

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Steven Latiolais

**Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of**

Lead Inspector

Accreditation No. MI200658

AI No. 200658

Date of Issuance June 5, 2020

Expiration March 3, 2021

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.**



**Public Participation & Permit Support Division
Office of Environmental Services**

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Steven Latiolais

**Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of**

Lead Risk Assessor

Accreditation No. MR200658

AI No. 200658

Date of Issuance June 5, 2020

Expiration March 4, 2021

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.**



**Public Participation & Permit Support Division
Office of Environmental Services**

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Terry L Adams

**Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of**

Lead Project Designer

Accreditation No. DD220601

AI No. 220601

Date of Issuance December 26, 2019

Expiration December 26, 2020

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.**

Paul Bergeron

**Public Participation & Permit Support Division
Office of Environmental Services**

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Adam McEvoy

**Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of**

Lead Inspector

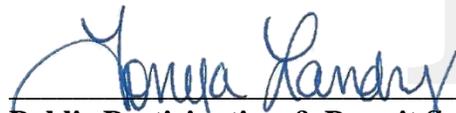
Accreditation No. NI201568

AI No. 201568

Date of Issuance November 23, 2020

Expiration November 29, 2021

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.**



**Public Participation & Permit Support Division
Office of Environmental Services**



STATE OF LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Hereby certifies that:

Jason Maloney

Has complied with all requirements of LAC 33:XI.1307.D of the Underground Storage Tank Regulations and is hereby authorized to perform the duties of:

CLOSURE

CERTIFICATION NO. C-767

ISSUED JANUARY 1, 2020

AGENCY INTEREST NO. 178742

EXPIRES DECEMBER 31, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1) (a) and La. R.S. 2025.F (2) (a) may result in civil and/or criminal enforcement actions by the State.

A handwritten signature in black ink, reading "Verretta Johnson", is positioned above a horizontal line.

Verretta Johnson
Environmental Scientist Staff
Underground Storage Tank Division



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Jason Michael Malone
4717 Laudun Street
Metairie, LA 70006

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Jason Michael Maloney	
License/Certificate Type - Number	Expiration Date
PE.0038094	09/30/2021
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Zack Lemual Dial III
22 East Levert Drive
Luling, LA 70070

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Zack Lemual Dial III		
License/Certificate Type - Number	Expiration Date	
PE.0034872	03/31/2022	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

Fold Here

Cut Here

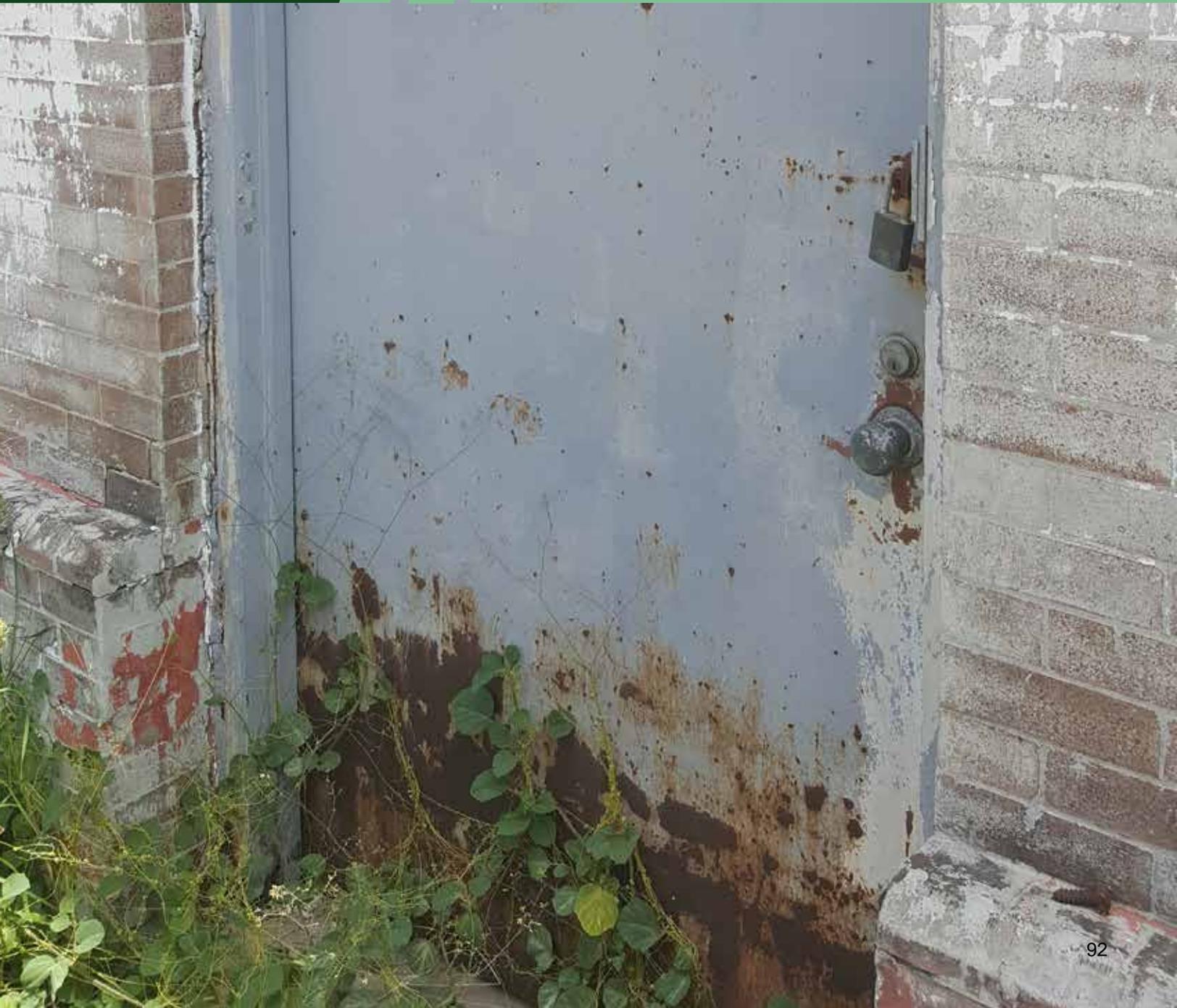
Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.



APPENDIX D
**SAMPLE INSPECTION & RISK
ASSESSMENT REPORTS**



Lead-Based Paint Inspection Report

Residential Structure
██████████ Avenue
Lafayette, Louisiana

January 3, 2020
Terracon Project No. ET197298



Prepared for:
Lafayette City-Parish Consolidated Government
Lafayette, Louisiana

Prepared by:
Terracon Consultants, Inc.
New Orleans, Louisiana

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

January 3, 2020



Lafayette City-Parish Consolidated Government
111 Shirley Picard Drive
Lafayette, Louisiana 70502

Attention: Mr. Kevin Roy
P: (337) 291-7356
E: kroy@lafayettela.gov

**RE: Lead-Based Paint Inspection Report
Residential Structure**
■ Griggs Avenue
Lafayette, Louisiana
Terracon Project No. ET197298

Dear Mr. Roy:

Terracon Consultants, Inc. (Terracon) conducted a Lead-Based Paint (LBP) Inspection at the residence located at ■ Griggs Avenue in Lafayette, Louisiana on December 19, 2019. This service was performed in accordance with our Proposal # PET197298 and U.S. Department of Housing and Urban Development (HUD) lead-based paint inspection guidelines.

Lead-based paint was detected on building components. Please refer to the attached report for details.

We appreciate the opportunity to perform these services for the Lafayette City-Parish Consolidated Government. Please contact us at 504-818-3638 if you have questions regarding the information provided in this report.

Sincerely,
Terracon Consultants, Inc.

Steven M. Latiolais
Staff Industrial Hygienist
LDEQ (AI#: 200658)

Cindy A. Baldwin, CIH, FAIHA
Senior Industrial Hygienist

Terracon Consultants, Inc. 524 Elmwood Park Boulevard, Suite 120 New Orleans, LA 70123
P (504) 818-3638 terracon.com

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Appendix A – Lead-Based Paint XRF Reading Logs

Appendix B – Site Plan

Appendix C – Certifications and XRF Performance Characteristic Sheets

LEAD-BASED PAINT INSPECTION REPORT
RESIDENTIAL STRUCTURE
GRIGGS AVENUE
LAFAYETTE, LOUISIANA
Terracon Project No. ET197298
January 3, 2020

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) is pleased to present this report for the Lead-Based Paint (LBP) Inspection conducted on December 18, 2019 at the above referenced site. We understand that the survey was requested to comply with the U.S. Department of Housing and Urban Development (HUD) LBP inspection guidelines and to determine whether the structure is eligible for renovation through a HUD rehabilitation program. Our report presents project information, procedures, visual observations, survey results, and findings.

2.0 EXECUTIVE SUMMARY

The LBP inspection was performed of an approximately 900-square feet, pier-and-beam, wood framed, single-family residence and an approximately 50-square feet shed. Terracon was not provided with a date of construction.

According to HUD testing methods, LBP was identified on surfaces tested as part of this LBP inspection.

3.0 REGULATIONS

In 1978, the Consumer Product Safety Commission banned the sale of LBP to consumers and its application to areas where consumers have direct access to painted surfaces. As a result of this ban, buildings painted prior to 1978 are suspected of containing leaded paint.

The U.S. Environmental Protection Agency (EPA) and HUD have specific guidelines for LBP inspections. The inspection process is referenced in the 2012 HUD *Guidelines for the Evaluation and Control of Lead-Based Hazards in Housing* in Chapter 7. The guidelines are issued pursuant to Section 1017 of the Residential Lead-Based Paint Hazard Reduction Act of 1992, which is often referred to as Title X (title ten) because it was enacted as Title X of the Housing and Community Development Act of 1992 (Public Law 102-550). The Guidelines are based on the concepts, definitions, and requirements set forth by Congress in Title X. Section 1017 requires the HUD

Lead-Based Paint Inspection Report

Griggs Avenue ■ Lafayette, Louisiana

January 3, 2020 ■ Terracon Project No. ET197298



Secretary to "... issue guidelines for the conduct of federally supported work involving risk assessments, inspections, interim controls, and abatement of lead-based paint hazards."

The EPA/HUD define LBP as painted surfaces containing equal to or more than (\geq) 1.0 milligram per square centimeter (1.0 mg/cm^2) of lead using an x-ray fluorescence analyzer (XRF) or $\geq 0.5\%$ lead dry weight by laboratory analysis.

Per Louisiana Administrative Code (LAC) 33:III.2803, LBP is defined as a paint or other surface coating that contains lead $\geq 1.0 \text{ mg/cm}^2$ or $\geq 0.5\%$ by weight. The Louisiana Department of Environmental Quality (LDEQ) currently issues certifications for LBP related activities and has adopted the HUD Guidelines as the standard for LBP related activities.

4.0 METHODS

4.1 Prior LBP Reports

At the time of the inspection, no previous LBP reports were made available by Lafayette City-Parish Consolidated Government (Client).

4.2 Testing Methods

In accordance with HUD, Terracon conducted a surface by surface investigation of interior and exterior components to determine the presence of LBP. A Heuresis Pb200i (serial no. 2029) XRF (PB200i) was used to determine if a surface coating contained LBP. XRF field-testing was performed by Mr. Steven Latiolais with Terracon, an LDEQ certified lead risk assessor (LDEQ AI No. 200658). Personnel certifications are included in Appendix C.

The residence was evaluated to identify different testing combinations present. Per HUD Guidelines, individual tests are to be classified as part of a group based on the testing combination (room equivalent, component, and substrate). For more detailed information, including testing location, component, color, and substrate, refer to the XRF testing results contained in Appendix A. Substrates are classified as brick, masonry, concrete, drywall, metal, plaster, or wood. A component is defined as a particular item, such as doors, windows, walls, etc. When using testing combinations, LBP results are classified by summing the individual component test results of positive, negative, or inconclusive. Testing combinations are provided in Appendix A.

If not otherwise noted, the following directional protocol was used within the interior: the direction of the XRF reading is identified as A, B, C, or D, based on the following sequence: A is the side of the room opposite where the dwelling's street is located. The B side is the next side of the room moving clockwise. The C side is the next side of the room, moving clockwise, and is opposite of

the A side. The D side is the final side of the room, moving, clockwise, and is opposite of the B side.

Similar protocol was used for the exterior; however, the A side is the main entrance. Then moving clockwise, walls are designated B, C, and D. A site plan is provided in Appendix B with building sides labeled.

4.2.1 Visual Assessment

Terracon conducted a visual assessment of interior and exterior building components. The visual assessment included evaluating the condition of building and the condition of painted surfaces in interior spaces. The information gathered in the visual assessment was utilized in determining the testing combinations for the LBP inspection.

4.3 XRF Instrumentation

The Pb200i XRF was used in accordance with HUD Chapter 7 Guidelines and the procedures detailed in the manufacturer's XRF Performance Characteristics Sheet (PCS) contained in Appendix C. LBP is defined by XRF readings $\geq 1.0 \text{ mg/cm}^2$.

No substrate correction is needed for brick, concrete, drywall, metal, plaster, or wood when the Pb200i XRF is operated in the standard mode.

Calibration validation readings were taken each time each analyzer was turned on and off and every four hours during the inspection process. Each time calibration verification readings are made, three nominal readings are taken on the 1.0 mg/cm^2 reference block. The average of the three readings is computed and recorded. The calibration verification reading should not differ from 1.0 mg/cm^2 by more than the calibration verification tolerance specified in the XRF PCS for the device. This comparison is referred to as the calibration verification test. Comprehensive XRF calibration test results are included in Appendix A.

The accuracy of the field measurement depends on three factors. The first is the quality of the reference standard lead film prepared by NIST¹. The second factor is accuracy of the mathematical function, that is, the difference between the calculated concentrations and actual concentrations. Third, the similarity between the building material samples used during calibration and the building materials encountered in the field can impact the accuracy of the measurement.

Calibration checks are performed at least twice daily, once prior to the inspection and once immediately after the inspection, with additional checks performed after 4 hours of continuous use

¹ NIST = National Institute of Standards and Technology

using protocols provided by HUD and the instrument manufacturer according to the NIST reference standard (see Appendix A for calibration results).

5.0 FINDINGS

A total of 83 XRF readings were taken from testing combinations on the interior and the exterior of the residence and shed. LBP, as defined by HUD and EPA, was identified on building components listed in Table 1, below. Cumulative XRF results are included in Table 2 in Appendix A.

Table 1. Summary of Confirmed LBP

Location	Component	Substrate	Color
Exterior wall A	Porch ceiling	Wood	White
Exterior wall A	Porch wall cap	Wood	White

5.1 Disclosure Obligations

A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under federal law (24 Code of Federal Regulations (CFR) 35-Lead-Based Paint Poisoning Prevention in Certain Residential Structures and 40 CFR 745-Lead-Based Paint Poisoning Prevention in Certain Residential Structures) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessees) and sellers are also required to distribute an educational pamphlet approved by the EPA and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

6.0 GENERAL COMMENTS

This LBP inspection was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our inspection of the building. The information contained in this report is relevant to the dates on which this inspection was performed and should not be relied upon to represent conditions at a later date.

This report has been prepared on behalf of and exclusively for use by the Lafayette City-Parish Consolidated Government for specific application to their project as discussed. Contractors,

Lead-Based Paint Inspection Report

█ Griggs Avenue ■ Lafayette, Louisiana

January 3, 2020 ■ Terracon Project No. ET197298



consultants or others reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information that may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A

LEAD-BASED PAINT XRF INSPECTION RESULTS

APPENDIX A

LEAD-BASED PAINT INSPECTION REPORT
RESIDENTIAL STRUCTURE
LAFAYETTE, LOUISIANA

Table 2. Lead-Based Paint XRF Inspection Results

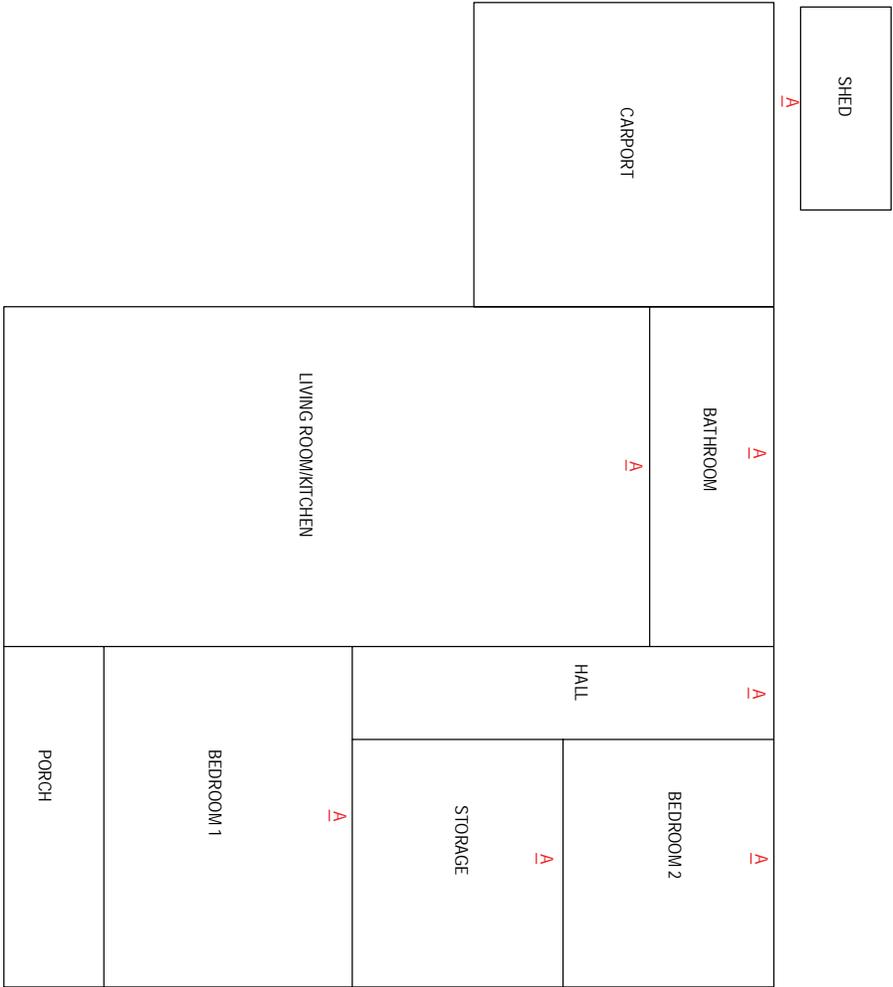
Room	Component	Substrate	Color	Location	Reading (mg/cm ²)	Positive/Negative?
Calibration	N/A	N/A	N/A	N/A	1.0	Positive
Calibration	N/A	N/A	N/A	N/A	0.9	Negative
Calibration	N/A	N/A	N/A	N/A	1.0	Positive
Exterior wall A	Wall	Metal	Gray	Middle left	-0.1	Negative
Exterior wall A	Fascia	Wood	Gray	Top right	-0.1	Negative
Exterior wall A	Window casing	Wood	White	Exterior wall A	0.6	Negative
Exterior wall A	Door casing	Wood	White	Exterior wall A	0.3	Negative
Exterior wall A	Door	Wood	White	Exterior wall A	0.3	Negative
Exterior wall A	Handrail	Wood	White	Exterior wall A	0.1	Negative
Exterior wall A	Porch ceiling	Wood	White	Exterior wall A	3.8	Positive
Exterior wall A	Porch wall cap	Wood	White	Exterior wall A	4.0	Positive
Exterior wall B	Wall	Metal	White	Exterior wall B	0.0	Negative
Exterior wall B	Window casing	Wood	White	Exterior wall B	0.4	Negative
Exterior wall B	Door casing	Wood	White	Exterior wall B	0.5	Negative
Exterior wall B	Wall	Wood	White	Exterior wall B	0.3	Negative
Shed	Wall	Metal	Gray	Exterior Shed	-0.1	Negative
Exterior wall C	Wall	Metal	Gray	Exterior wall C	0.1	Negative
Exterior wall C	Window casing	Wood	White	Exterior wall C	0.3	Negative
Exterior wall C	Pipe	Metal	White	Exterior wall C	0.5	Negative
Exterior wall C	Carport rafter tail	Wood	White	Exterior wall C	-0.1	Negative
Exterior wall C	Soffit	Metal	White	Exterior wall C	0.0	Negative
Exterior wall C	Fascia	Wood	White	Exterior wall C	0.0	Negative
Exterior wall D	Wall	Metal	White	Exterior wall D	0.4	Negative
Exterior wall D	Window casing	Wood	White	Exterior wall D	0.4	Negative
Exterior wall D	Soffit	Metal	White	Exterior wall D	0.0	Negative
Exterior wall D	Rafter tail	Wood	White	Exterior wall D	-0.1	Negative

Room	Component	Substrate	Color	Location	Reading (mg/cm ²)	Positive/Negative ?
Living room / kitchen	Wall	Wood	Brown	A	0.0	Negative
Living room / kitchen	Wall	Wood	White	B	0.0	Negative
Living room / kitchen	Wall	Wood	White	C	0.1	Negative
Living room / kitchen	Wall	Wood	White	D	0.1	Negative
Living room / kitchen	Ceiling	Wood	White	Middle center	-0.2	Negative
Living room / kitchen	Window sill	Wood	White	D	0.0	Negative
Living room / kitchen	Window casing	Wood	White	Brown	0.1	Negative
Living room / kitchen	Baseboard	Wood	White	A	0.0	Negative
Living room / kitchen	Door	Wood	White	D	0.1	Negative
Living room / kitchen	Door frame / casing	Wood	White	D	0.0	Negative
Living room / kitchen	Cabinet	Wood	Brown	D	0.0	Negative
Bedroom 1	Wall	Wood	White	A	0.0	Negative
Bedroom 1	Wall	Wood	White	B	0.2	Negative
Bedroom 1	Wall	Wood	White	C	0.2	Negative
Bedroom 1	Wall	Wood	White	D	0.1	Negative
Bedroom 1	Ceiling	Wood	White	Middle center	0.2	Negative
Bedroom 1	Windowsill	Wood	White	B	-0.1	Negative
Bedroom 1	Window casing	Wood	White	B	0.0	Negative
Bedroom 1	Baseboard	Wood	White	White	0.0	Negative
Bedroom 1	Door	Wood	White	White	0.0	Negative
Bedroom 1	Door frame / casing	Wood	White	White	0.2	Negative
Storage	Wall	Wood	White	A	0.1	Negative
Storage	Wall	Wood	White	B	0.0	Negative
Storage	Wall	Wood	White	C	0.0	Negative
Storage	Wall	Wood	White	D	-0.1	Negative
Storage	Ceiling	Wood	White	Middle center	0.0	Negative
Storage	Baseboard	Wood	White	C	0.1	Negative
Storage	Door frame / casing	Wood	White	D	-0.1	Negative
Hall	Wall	Wood	White	A	0.0	Negative
Hall	Wall	Wood	White	B	-0.1	Negative
Hall	Wall	Wood	White	C	-0.2	Negative
Hall	Wall	Wood	White	D	0.0	Negative
Hall	Baseboard	Wood	White	B	0.0	Negative

Room	Component	Substrate	Color	Location	Reading (mg/cm ²)	Positive/Negative ?
Hall	Door	Wood	White	A	0.0	Negative
Hall	Door frame / casing	Wood	White	A	0.1	Negative
Bedroom 2	Wall	Wood	White	A	0.0	Negative
Bedroom 2	Wall	Wood	White	B	0.0	Negative
Bedroom 2	Wall	Wood	White	C	0.1	Negative
Bedroom 2	Wall	Wood	White	D	0.0	Negative
Bedroom 2	Ceiling	Wood	White	Middle center	0.0	Negative
Bedroom 2	Window sill	Wood	White	B	0.0	Negative
Bedroom 2	Window casing	Wood	White	B	0.0	Negative
Bedroom 2	Baseboard	Wood	White	D	0.0	Negative
Bedroom 2	Door	Wood	White	D	-0.1	Negative
Bedroom 2	Door frame / casing	Wood	White	D	-0.1	Negative
Bathroom	Wall	Wood	White	A	0.2	Negative
Bathroom	Wall	Wood	White	B	0.1	Negative
Bathroom	Wall	Wood	White	C	0.2	Negative
Bathroom	Wall	Wood	White	D	0.2	Negative
Bathroom	Ceiling	Wood	White	Middle center	0.4	Negative
Bathroom	Window sill	Wood	White	A	0.1	Negative
Bathroom	Window sash	Wood	White	A	0.0	Negative
Bathroom	Baseboard	Wood	White	C	0.0	Negative
Bathroom	Door	Wood	White	B	0.0	Negative
Bathroom	Door frame / casing	Wood	White	B	0.0	Negative
Calibration	N/A	N/A	N/A	N/A	0.9	Negative
Calibration	N/A	N/A	N/A	N/A	0.1	Positive
Calibration	N/A	N/A	N/A	N/A	0.9	Negative

APPENDIX B

SITE PLAN



GRIGGS AVENUE

Terracon
 Consulting Engineers and Scientists
 5415 MONROE PARK BOULEVARD #170
 NEW ORLEANS, LA 70123
 PH: (504) 818-8388 FAX: (504) 818-8900

SCALE: NOT TO SCALE
 PROJECT NO: ET1912298
 DATE: JANUARY 2020
 APPROVED BY: CAB

SITE MAP
 LEAD BASED RADIATION SURVEY



EXHIBIT
1.0

APPENDIX C

CERTIFICATIONS AND XRF PERFORMANCE CHARACTERISTIC SHEETS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Steven Latiolais

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

Lead Inspector

Accreditation No. JI200658

AI No. 200658

Date of Issuance September 23, 2019

Expiration July 9, 2020

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.

Paul Bergeron

Public Participation & Permit Support Division
Office of Environmental Services

Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make: *Heuresis*
Models: *Model Pb200i*
Source: *⁵⁷Co, 5 mCi (nominal – new source)*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm ² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading})/6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm ²)	Mean Reading Time (seconds)	Standard Deviation (seconds)
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.

Lead Risk Assessment and Lead-Based Paint Inspection Report

████████████████████
████████████████████
████████████████████ Highway 933
Prairieville, Louisiana

June 18, 2020
Terracon Project No. ET207139



Prepared for:

████████████████████
Mobile, Alabama

Prepared by:

Terracon Consultants, Inc.
New Orleans, Louisiana

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

June 18, 2020

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

RE: Lead Risk Assessment and Lead-Based Paint Inspection Report

[REDACTED]
[REDACTED]
[REDACTED] Highway 933
Prairieville, Louisiana
Terracon Project No. ET207139

Dear [REDACTED]

The purpose of this report is to present the results of a HUD Lead Risk Assessment and Lead-Based Paint Inspection performed on June 14, 2020 at the [REDACTED] located at [REDACTED] Highway 933 in Prairieville, Louisiana. This assessment was performed in accordance with our Master Services Agreement dated [REDACTED]
[REDACTED]

Terracon Consultants, Inc. appreciates the opportunity to provide this service to [REDACTED]
[REDACTED] If you have any questions regarding this report, please contact the undersigned at 504-818-3638.

Sincerely,
Terracon Consultants, Inc.



Steven M. Latiolais
Staff Industrial Hygienist
(LDEQ Lead Risk Assessor MR200658)



Tom Holley CHMM, CIH, CSP
Authorized Project Reviewer

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Appendix A – Lead-Based Paint XRF Inspection Results

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Appendix D – Site Drawing

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HUD LEAD RISK ASSESSMENT AND LEAD-BASED PAINT INSPECTION REPORT

[REDACTED]
[REDACTED]
[REDACTED] Highway 933
Prairieville, Louisiana
Terracon Project No. ET207139
June 18, 2020

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) is pleased to present this report for the lead risk assessment and lead-based paint inspection conducted at the [REDACTED] facility located at [REDACTED] Highway 933 in Prairieville, Louisiana on June 14, 2020. Our report presents project information, risk assessment procedures, visual observations, lead-based paint testing procedures and results, dust sampling methodology and results, soil sampling methodology and results, lead in drinking water methodology and results, and conclusions and recommendations.

2.0 PROJECT OBJECTIVE

The purpose of these services was to identify painted, coated, and/or varnished surfaces with concentrations of lead exceeding the regulatory level, evaluate the property's existing or potential health hazards associated with lead-based paint, and provide recommendations for remediation of potential hazards. Below is a summary of this assessment.

These services were performed in general accordance with Chapter 5 and 7 of the U.S. Department of Housing and Urban Development Guidance for the Evaluation and Control of Lead-Based Paint Hazards in Housing (HUD Guidelines), second edition dated July 2012.

3.0 EXECUTIVE SUMMARY

On June 14, 2020, Terracon Consultants, Inc. conducted a lead-based paint inspection, risk assessment, and drinking water sampling at the above referenced facility. The current owner of the subject property is [REDACTED]. The risk assessment was conducted by Steven Latiolais, State of Louisiana accredited Lead-Based Paint Risk Assessor. [REDACTED]
[REDACTED]

The purpose of these services was to identify painted, coated, and/or varnished surfaces with concentrations of lead exceeding the regulatory level, evaluate the property's existing or potential health hazards associated with lead, and provide recommendations for remediation of potential hazards. Below is a summary of this assessment. Terracon conducted a visual

assessment of each area where environmental sampling was conducted. The visual assessment included evaluating the condition of the building, condition of painted surfaces, dust accumulation in interior spaces, areas of bare soil, painted components at impact or friction surfaces, and painted surfaces exposed to children less than six years of age (if present). The information gathered in the visual assessment was utilized in determining the collection points of environmental samples collected.

The following table summarizes Terracon’s findings:

Lead-Based Paint	Lead-Based Paint Hazard	Lead Dust Hazard	Soil Lead Hazard	Lead in Drinking Water?
Yes	No	No	No	No

4.0 REGULATORY OVERVIEW

In 1978, the Consumer Product Safety Commission banned the sale of lead-based paint to consumers, and its application to areas where consumers have direct access to painted surfaces. As a result of this ban, buildings painted prior to 1978 are suspected of containing leaded paint.

The U.S. Environmental Protection Agency (EPA) and HUD have specific guidelines for the assessment of lead-based paint hazards and inspection of lead-based paint. The risk assessment process and inspection process are referenced in the 2012 HUD *Guidelines for the Evaluation and Control of Lead-Based Hazards in Housing* in Chapter 5 and 7, respectively. The guidelines are issued pursuant to Section 1017 of the Residential Lead-Based Paint Hazard Reduction Act of 1992, which is often referred to as Title X (“title ten”) because it was enacted as Title X of the Housing and Community Development Act of 1992 (Public Law 102–550). The Guidelines are based on the concepts, definitions, and requirements set forth by Congress in Title X. Section 1017 requires the HUD Secretary to issue “guidelines for the conduct of federally supported work involving risk assessments, inspections, interim controls, and abatement of lead-based paint hazards” (emphasis added, see 42 U.S.C. 4852c).

The EPA/HUD and Louisiana Administrative Code (LAC) 33: III.2803 define lead-based paint as painted surfaces containing 1.0 milligram per square centimeter (1.0 mg/cm²) of lead using the X-ray fluorescence analyzer (XRF) method, or 0.5% lead dry weight using the atomic absorption analytical method.

The Louisiana Department of Environmental Quality (LDEQ) currently issues certifications for lead-based paint related activities and has adopted the HUD Guidelines as the standard for lead-based paint related activities.

5.0 PROPERTY INFORMATION

5.1 PROPERTY DESCRIPTION

Property Address:	██████████ Highway 933, Prairieville, LA
Current Property Owner:	██████████
Owner Current Address:	Not provided
Owner Phone Number:	██████████
Number of Floors (excluding basements/attics):	Single-Story
Basement (Yes/No):	No
Attic (Yes/No):	Yes
Single Family or Multi-Family:	N/A
General Construction Type:	Wood framed, pier-and-beam construction.
Original Year of Construction:	1935
Additions:	Not Reported
Garage (Yes/No) (attached/detached):	Yes
Additional Buildings or Structures (Yes/No):	No

5.2 Occupancy

The subject structure is currently utilized as a day-care facility but was unoccupied at the time of these services.

6.0 PROPERTY CONDITION

6.1 Building Condition for Lead Hazard Risk Assessment

Y/N	Parameter
No	Roof is missing parts of surfaces (tiles, boards, shingles, shakes, etc.)
No	Roof has holes or large cracks
No	Gutters or downspouts broken
No	Chimney masonry cracked, bricks loose or missing, or obviously out of plumb
No	Exterior or interior walls have obvious large cracks or holes requiring more than routine pointing (masonry) or painting
No	Exterior siding has missing boards or shingles
No	Water stains on interior walls or ceilings
No	Walls or ceilings are deteriorated
No	More than a "very small" amount of paint in a room deteriorated
No	Two (2) or more windows or doors are broken, missing or boarded up
No	Porch steps have major elements broken, missing or boarded up
No	Foundation has major cracks, missing material, or the structure leans or otherwise appears to be unsound

6.2 Checklist Notes

“Very small” is defined as the de Minimis amount under the HUD Lead Safe Housing Rule (24 CFR 35.1350(d)) or the amount of paint falls under the “minor repair and maintenance activities” thresholds (40 CFR 745.83)

6.3 Building Condition Checklist Comments

Leaded paints found in connection with the subject structure’s exterior were found to be not deteriorated.

7.0 SAMPLING, TESTING, AND ANALYSIS PROCEDURES

7.1 Dust Wipes

Dust wipe samples were collected in general accordance with the HUD Guidelines, Appendix 13.1. Dust wipe samples were collected using wipes that meet the American Society for Testing and Materials (ASTM) Standard E 1792 and submitted for analysis via Flame Atomic Absorption Spectroscopy (FAAS) (EPA SW846 7420/7000B) analysis by EMSL Analytical of Baton Rouge, Louisiana, a National Voluntary Laboratory Accreditation Program (NVLAP) and Louisiana Environmental Lab Accreditation Program (LELAP) accredited laboratory. Lead content is reported in micrograms per square foot ($\mu\text{g}/\text{ft}^2$). Dust is considered lead-contaminated if the laboratory reports any of the following:

- Floors: 40 $\mu\text{g}/\text{ft}^2$
- Sills: 250 $\mu\text{g}/\text{ft}^2$

Terracon collected eleven (11) dust wipes from the subject structure. Adequate quality control procedures were utilized during sampling. This included the submittal of a field blank for at least every twenty (20) samples collected.

7.2 Soil

Soil samples are collected in general accordance with the HUD Guidelines, Appendix 13.3. Samples were submitted for FAAS EPA SW846 7420/7000B analysis by EMSL Analytical of Baton Rouge, Louisiana. Soil is considered lead-contaminated if the laboratory analysis indicates lead concentration of 1,200 mg/kg in the drip line or in other bare soil areas of the yard and 400 mg/kg within designated play areas. Terracon collected two (2) soil samples: one (1) from the Exterior A side of the structure’s dripline and one (1) from the play area.

7.3 XRF Lead-Based Paint Testing

A surface-by-surface evaluation of the subject structure was performed with an X-ray fluorescence (XRF) device. XRF technology uses low-level radiation to induce energy in lead atoms within a painted or varnished surface, which the XRF unit can analyze. The device then displays the direct-reading results in milligrams of lead per square centimeter of

surface area tested (mg/cm^2) and can determine if LBP is present.

Calibration validation (quality control) readings are taken each time the analyzer is turned on and off and every four hours during the assessment process. Each time calibration verification readings are made; three nominal readings are taken on the $1.0 \text{ mg}/\text{cm}^2$ reference block. The average of the three readings are computed and recorded. The calibration verification reading should not differ from $1.0 \text{ mg}/\text{cm}^2$ by more than the calibration verification tolerance specified in the XRF Performance Characteristics Sheet (PCS) for the Heuresis Model Pb200i Lead Paint Analyzer. This comparison is referred to as the calibration verification test.

LBP is defined by state and federal regulations as surface coatings which contain $1.0 \text{ mg}/\text{cm}^2$ of lead, or greater. XRF testing on this project was performed using a Heuresis Model Pb200i Lead Paint Analyzer, serial number 2029.

If not otherwise noted, the following direction protocol was used within the interior: the direction of the XRF reading is identified as A, B, C, or D, based on the following sequence: A is the side of the room opposite where the structure's front door is located. The B side is the next side of the room moving clockwise. The C side is the next side of the room, moving clockwise, and is opposite of the A side. The D side is the final side of the room, moving clockwise, and is opposite of the B side.

Similar protocol was used for the exterior, however, the A side is the main entrance. Then moving clockwise, walls are designated B, C, and D. A site plan is provided in Appendix D with building sides labeled.

7.4 Lead in Drinking Water

Lead is a toxic heavy metal that could be present in drinking water. Natural water usually contains very little lead. Contamination generally occurs in the water distribution system or in the supply pipes of the building. Because of this, the EPA has established a maximum concentration limit (MCL) action level for lead concentrations in drinking water of 15 micrograms per liter ($\mu\text{g}/\text{L}$). The action level is defined as the concentration of lead in water, which if exceeded, triggers treatment or other requirements that a water system must follow.

Terracon collected a total of ten (10) drinking water samples consisting of five (5) static samples and five (5) dynamic samples. Water samples were collected in the Kitchen, Restroom 1, and Restroom 2. The sinks in these 3 locations were not used within 18-hours of the sampling event. Static samples were collected from the "first draw" of water from each tap. Dynamic samples were then collected following a thirty second flush of each tap.

The samples were analyzed for lead content by Pace Analytical using Method 3113B Atomic Absorption.

8.0 FINDINGS: INSPECTION AND RISK ASSESSMENT

8.1 Dust Wipe Sampling Results

A lead dust hazard includes surface dust exceeding the levels shown below on one or more of the following components:

- Floors: 40 µg/ft²
- Window Sills: 250 µg/ft²

Data is summarized in Table 1.0, below:

Table 1.0 – Lead Wipe Sample Results						
Sample ID	Room	Surface	Location	Sample Area (ft ²)	Lab Result (µg/ft ²)	Lead Hazard Present (Yes/No)
01-FL-01	01	Carpet Floor	Center	1	<10	No
01-WS-02	01	Wood Window Sill	Wall D	0.49	<21	No
02-FL-03	02	Carpet Floor	Center	1	<10	No
02-WS-04	02	Wood Window Sill	Wall B	0.81	<12	No
KT-FL-05	Kitchen	Wood Floor	Center	1	<10	No
KT-WS-06	Kitchen	Wood Window Sill	Wall D	0.70	<14	No
04-FL-07	04	Carpet Floor	Center	1	<10	No
04-WS-08	04	Wood Window Sill	Wall A	0.58	<17	No
05-FL-09	05	Carpet Floor	Center	1	<10	No
05-WS-10	05	Wood Window Sill	Wall A	0.58	<17	No
00-BL1-11	BLANK	-	-	-	<10/wipe	-

8.2 Soil Sampling Results

Soil is considered lead-contaminated if the laboratory analysis is 1,200 mg/kg in the drip line or in other bare soil areas of the yard and 400 mg/kg within designated play areas.

Findings are presented below in Table 2.0:

Table 2.0 – Lead in Soil Sample Results				
Type of area Sampled	Sample Identification	Location	Laboratory Result (mg/kg)	Lead Hazard Present (Yes/No)
Bare Soil in Play Area	SO-PG-01	Swing Set	82	No
Bare Soil in Roof Dripline	SO-DL-02	Dripline Side A	69	No

8.3 XRF Testing Results

The assessor inspected readily accessible interior and exterior living spaces of the subject structure. The risk assessor within a reasonable degree of certainty, made informed decisions related to paint testing and tested all readily accessible pre-1978 testing combinations.

Components were identified to be surfaced with paint containing lead in excess of the standard, 1.0 mg/cm² via XRF analysis as established by the EPA and the HUD guidelines. In addition, LBP hazards were identified in connection with these components.

A LBP hazard is any of the following:

- LBP on a friction or impact surface subject to wear or damage;
- Any other deteriorated LBP.

Findings are summarized Table 3.0, below:

TABLE 3.0 – LBP SUMMARY						
Paint Color	Component Description	Component Location	Substrate	Paint Condition	Approximate Quantity	Lead Hazard Present (Yes/No)
White	Window Casing	Room 01/06	Wood	Intact	1 System	No
Blue	Ceiling	Room 02	Drywall	Intact	125 SF	No
Light Brown	Wall	Exterior Wall B	Wood	Intact	400 SF	No
White	Window Sashes, Casings, and Frames	Exterior Wall B	Wood	Intact	6 Systems	No
White	Window Frame	Exterior Wall C	Wood	Intact	3 Systems	No
White	Door Casing	Exterior Wall C – Left	Wood	Intact	1 System	No
Light Brown	Wall	Exterior Wall D	Wood	Intact	300 SF	No
White	Gable Vents	Exterior Walls	Wood	Intact	4 ct.	No

8.3.1 Special Conditions

At the time of these services, Terracon was unable to safely access the gable vents associated with the subject property, therefore they were assumed to have LBP coatings, but were observed in intact condition.

Friction surfaces such as window sashes and frames were identified to be coated with LBP. However, Terracon performed tests to open each window and was unable to do so. An interview with Mr. Jeremy Hull verified that the windows identified with LBP are non-functioning. Being as these components are not subject to friction by moving parts, Terracon

deemed the LBP found in connection with these components to be non-hazardous so long as the windows remain fixed.

8.3.2 Paint Conditions

Building Component	Deteriorated? (Yes/No)	Friction or Impact Damage (Yes/No)	Moisture Deterioration (Yes/No)
Interior Doors	No	N/A	N/A
Interior Ceilings	No	N/A	N/A
Exterior Ceilings	No	N/A	N/A
Interior Walls	No	N/A	N/A
Exterior Walls	No	N/A	N/A
Window Interiors	No	N/A	N/A
Window Exteriors	No	N/A	N/A
Interior Floors	No	N/A	N/A
Exterior Floors	No	N/A	N/A
Soffits, Eaves, Fascia	No	N/A	N/A
Interior Stairways	N/A	N/A	N/A
Exterior Stairways	No	N/A	N/A
Radiators/Covers	N/A	N/A	N/A
Kitchen Cabinets	No	N/A	N/A
Bathroom Cabinets	No	N/A	N/A

8.4 Lead in Drinking Water Results

Based on laboratory analytical results, each of the samples collected were determined to contain lead below the U.S. EPA MCL of 15 µg/L. Findings are summarized in table 4.0, below:

Sample ID	Sample Type (Static or Dynamic)	Sample Location	Laboratory Result (µg/L)
KT1-D1-01	Static	Kitchen Sink 1	<1.0
KTT1-D1-02	Dynamic	Kitchen Sink 1	<1.0
KT2-D1-03	Static	Kitchen Sink 2	2.3
KT2-D2-04	Dynamic	Kitchen Sink 2	<1.0
KT3-D1-05	Static	Kitchen Sink 3	1.2
KT3-D2-06	Dynamic	Kitchen Sink 3	<1.0
RR1-D1-07	Static	Restroom 1	<1.0
RR1-D2-08	Dynamic	Restroom 1	<1.0
RR2-D1-09	Static	Restroom 2	<1.0
RR2-D2-10	Dynamic	Restroom 2	<1.0

Lead concentrations reported in the static and dynamic samples were below the EPA MCL of 15 µg/L.

9.0 RECOMMENDATIONS

Based on Terracon's LBP Risk Assessment and Inspection, the following were identified with LBP coatings:

- White window casing within Room 01 and 06
- Blue ceiling within Room 02
- Light Brown wall at Exterior Wall B
- White window sashes, casings, and frames at Exterior Wall B
- White window frames at Exterior Wall C
- White door casing at Exterior Wall C – Left
- Light brown wall at Exterior Wall D
- White gable vents at all Exterior Walls (Assumed)

Although these components were not classified as presenting a lead hazard, it is recommended that regular observation for deterioration and use of lead-safe cleaning practices be performed. Additionally, all window systems identified with LBP should remain fixed and inoperable.

9.1 General

Per HUD's Title X, abatement refers to any set of measures designed to permanently eliminate LBP or LBP hazards. Abatement includes: the removal of LBP and dust-lead hazards, the permanent enclosure or encapsulation of LBP, and/or the replacement of components or fixtures painted with LBP. Permanent means an expected design life of at least 20 years.

The EPA promulgates LBP regulations for residential properties that are planned for child occupation (under 6 years old). Development of a Lead Management Plan that meets current EPA and OSHA regulations is recommended, under which the identified LBP coatings may be monitored and controlled by either abatement, encapsulation, paint stabilization, and/or ongoing maintenance.

If renovation activities are conducted that impact any of the identified LBP, the contractor conducting the work should be advised of the results of this survey and instructed to comply with all State and Federal regulations concerning worker exposure to lead and disposal of waste containing lead. As of April 22, 2010, EPA requires that contractors and contractor firms who perform renovations in these facilities to be trained and certified and to follow lead safe work practices. In addition, residents cannot enter affected work areas until they have been cleared by accredited personnel.

Building components that are coated with LBP may be removed and disposed as a single component. This method is cost effective in comparison to removing the LBP. A Toxicity Characteristics Leachate Procedure (TCLP) sample analysis may be required by the

disposal facility, typically a landfill, prior to acceptance of this waste. Metal building components coated with LBP can be disposed of by delivering them to a metal recycling facility. If metal components are recycled, TCLP testing is not required.

9.2 Disclosure Obligations

The results of this lead-based paint inspection and risk assessment must be provided to new lessees (tenants) and prospective buyers of this property under Federal Law (24 CFR part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report must be provided by the owner to prospective buyers and it must be made available to prospective tenants, and to renewing tenants if they have not been provided the information previously. The risk assessor's plain language summary of the report must be provided to the client (e.g., property owner or manager) when the complete report is provided. The landlord (lessor) or seller is also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include the Lead Warning Statement in the leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards. Complete disclosure requires the landlord/sellers and renters/buyers (and their agents) to sign and date acknowledgement that the required information and materials were provided and received. Also, prospective buyers must be provided the opportunity to have their own lead-based paint inspection, lead hazard screen, and/or risk assessment performed before the purchase agreement is signed; the standard period is 10 days, but this period may be changed or waived by agreement between the seller and prospective buyer. EPA regulations require the risk assessor to keep the risk assessment report for at least 3 years.

10.0 GENERAL COMMENTS

This lead risk assessment and limited lead-based paint inspection was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our inspection of the building. The information contained in this report is relevant to the dates on which this inspection was performed, and should not be relied upon to represent conditions at a later date.

This report has been prepared on behalf of and exclusively for use by Hancock Whitney Bank for the specific application to their project as discussed.

Contractors, consultants or others reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which

HUD Lead Risk Assessment and Lead-Based Paint Inspection

██████████ ■ Prairieville, LA
June 18, 2020 ■ Terracon Project No. ET207139



may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A
LEAD-BASED PAINT XRF INSPECTION RESULTS

APPENDIX A

LEAD-BASED PAINT INSPECTION REPORT

████████████████████ HIGHWAY 933

Table 2. Lead-Based Paint XRF Inspection Results

Room	Component	Substrate	Color	Location	Reading (mg/cm ²)	Positive/Negative?
01	CALIBRATION 1000	-	-	-	0.8	Negative
	CALIBRATION 1000	-	-	-	0.8	Negative
	CALIBRATION 1000	-	-	-	0.8	Negative
	Wall	Drywall	Green	A	0.1	Negative
	Wall	Drywall	Green	B	0.1	Negative
	Wall	Drywall	Green	C	0.0	Negative
	Wall	Drywall	Green	D	0.0	Negative
	Ceiling	Drywall	Green	Middle Center	0.0	Negative
	Baseboard	Wood	White	C	0.0	Negative
	Backpack Rail	Wood	Red	B	0.0	Negative
	Door Casing	Wood	White	A	0.1	Negative
	Door	Metal	Red	A	0.0	Negative
	Window Casing	Wood	White	D	5.8	Positive
	Window Sill	Wood	White	A	0.0	Negative
	Wall	Drywall	White	A	0.0	Negative
Storage 1	Wall	Drywall	White	B	0.0	Negative
	Wall	Drywall	White	C	0.0	Negative
	Wall	Drywall	White	D	0.4	Negative
	Ceiling	Drywall	White	Middle Center	0.0	Negative
	Window Sill	Wood	White	C	0.1	Negative
	Window Casing	Wood	White	C	0.0	Negative
	Wall	Drywall	Blue	A	0.0	Negative
	Wall	Drywall	Blue	B	-0.2	Negative
	Wall	Drywall	Blue	C	-0.1	Negative
	Wall	Drywall	Blue	D	0.0	Negative
	Ceiling	Drywall	Blue	Middle Center	1.3/0.6	Positive
	Baseboard	Wood	White	B	0.1	Negative
	Window Sill	Wood	White	B	-0.1	Negative
	Window Casing	Wood	White	C	0.0	Negative
	Window Sash	Wood	White	C	-0.1	Negative
Window Frame	Wood	White	C	0.0	Negative	
02	Window Sill	Wood	White	B	0.0	Negative
	Window Casing	Wood	White	C	0.0	Negative
	Window Sash	Wood	White	C	-0.1	Negative
	Window Frame	Wood	White	C	0.0	Negative
	Window Sill	Wood	White	B	0.0	Negative
	Window Casing	Wood	White	C	0.0	Negative
	Window Sash	Wood	White	C	-0.1	Negative
	Window Frame	Wood	White	C	0.0	Negative
	Window Sill	Wood	White	B	0.0	Negative
	Window Casing	Wood	White	C	0.0	Negative
	Window Sash	Wood	White	C	-0.1	Negative
	Window Frame	Wood	White	C	0.0	Negative
	Window Sill	Wood	White	B	0.0	Negative
	Window Casing	Wood	White	C	0.0	Negative
	Window Sash	Wood	White	C	-0.1	Negative
Window Frame	Wood	White	C	0.0	Negative	

Room	Component	Substrate	Color	Location	Reading (mg/cm ²)	Positive/Negative?
03	Wall	Drywall	Yellow	A	0.0	Negative
	Wall	Drywall	Yellow	B	0.0	Negative
	Wall	Drywall	Yellow	C	0.0	Negative
	Wall	Drywall	Yellow	D	-0.1	Negative
	Ceiling	Drywall	Yellow	Middle Center	-0.1	Negative
	Baseboard	Wood	White	C	0.0	Negative
	Window Sill	Wood	White	C	0.0	Negative
	Window Casing	Wood	White	D	0.1	Negative
	Window Sash	Wood	White	D	0.0	Negative
	Window Frame	Wood	White	D	0.1	Negative
	Floor	Wood	Brown	Middle Center	0.0	Negative
	Wall	Wood	Pink	A	0.1	Negative
	Wall	Wood	Pink	B	0.0	Negative
	Wall	Wood	Pink	C	0.0	Negative
	Wall	Wood	Wallpaper	D	0.1	Negative
Ceiling	Wood	White	Middle Center	0.1	Negative	
Baseboard	Wood	White	B	0.1	Negative	
Door	Wood	White	B	-0.1	Negative	
Floor	Wood	Brown	Middle Center	-0.1	Negative	
Cabinet	Wood	Brown	D	0.0	Negative	
Window Sill	Wood	White	D	0.0	Negative	
Window Casing	Wood	White	D	-0.1	Negative	
Window Sash	Wood	White	D	0.1	Negative	
Window Frame	Wood	White	D	0.1	Negative	
Laundry	Wall	Drywall	Blue	B	-0.1	Negative
	Wall	Drywall	Blue	A	-0.1	Negative
	Wall	Drywall	Blue	B	-0.1	Negative
Hall	Wall	Drywall	Blue	C	-0.2	Negative
	Wall	Drywall	Blue	D	-0.2	Negative
	Ceiling	Drywall	Blue	Middle Center	-0.1	Negative
	Baseboard	Wood	White	A	0.0	Negative
	Door	Wood	White	A	-0.1	Negative
	Door Casing	Wood	White	A	0.0	Negative
	Half Door	Wood	Red	C	0.0	Negative
	Wall	Drywall	Yellow	A	0.1	Negative
	Wall	Drywall	Yellow	B	-0.1	Negative
	Wall	Drywall	Yellow	C	-0.2	Negative
04	Wall	Drywall	Yellow	D	-0.1	Negative
	Ceiling	Drywall	Yellow	Middle Center	0.1	Negative

Room	Component	Substrate	Color	Location	Reading (mg/cm ²)	Positive/Negative?
04	Baseboard	Wood	White	A	-0.1	Negative
	Window Sill	Wood	White	A	-0.1	Negative
	Window Casing	Wood	White	A	-0.1	Negative
	Window Sash	Wood	White	D	0.0	Negative
	Window Frame	Wood	White	D	0.0	Negative
	Wall	Drywall	Wallpaper	A	0.1	Negative
	Wall	Drywall	Wallpaper	B	0.0	Negative
	Wall	Drywall	Wallpaper	C	0.2	Negative
	Wall	Drywall	Wallpaper	D	0.1	Negative
	Ceiling	Drywall	White	Middle Center	-0.1	Negative
	Baseboard	Wood	White	B	0.0	Negative
	Door	Wood	White	B	-0.1	Negative
Restroom 1	Door Casing	Wood	White	B	-0.1	Negative
	Cabinet	Wood	Brown	C	0.0	Negative
	Wall	Drywall	White	A	0.0	Negative
	Wall	Drywall	White	B	-0.1	Negative
	Wall	Drywall	White	C	0.1	Negative
	Wall	Drywall	White	D	-0.1	Negative
	Ceiling	Drywall	White	Middle Center	-0.3	Negative
	Baseboard	Wood	White	D	-0.1	Negative
	Window Sill	Wood	White	D	0.0	Negative
	Window Casing	Wood	White	D	0.2	Negative
	Window Sash	Wood	White	D	0.0	Negative
	Storage 2	Window Frame	Wood	White	D	0.2
Door		Wood	White	B	0.0	Negative
Door Casing		Wood	White	B	0.0	Negative
Wall		Drywall	Yellow	A	0.0	Negative
Wall		Drywall	Yellow	B	-0.2	Negative
Wall		Drywall	Yellow	C	0.0	Negative
Wall		Drywall	Yellow	D	0.1	Negative
Ceiling		Drywall	Yellow	Middle Center	0.1	Negative
Baseboard		Wood	White	A	-0.1	Negative
Window Sill		Wood	White	A	0.1	Negative
Window Casing		Wood	White	A	0.0	Negative
Window Sash		Wood	White	A	0.0	Negative
05	Window Frame	Wood	White	A	0.1	Negative
	Door	Wood	White	D	0.1	Negative
	Door Casing	Wood	White	D	0.0	Negative
	Baseboard	Wood	White	A	-0.1	Negative
	Window Sill	Wood	White	A	0.1	Negative
	Window Casing	Wood	White	A	0.0	Negative
	Window Sash	Wood	White	A	0.0	Negative
	Window Frame	Wood	White	A	0.1	Negative
	Door	Wood	White	D	0.1	Negative
	Door Casing	Wood	White	D	0.0	Negative

Room	Component	Substrate	Color	Location	Reading (mg/cm ²)	Positive/Negative?
06	Wall	Drywall	Green	A	0.0	Negative
	Wall	Drywall	Green	B	0.1	Negative
	Wall	Drywall	Green	C	0.0	Negative
	Wall	Drywall	Green	D	-0.2	Negative
	Ceiling	Drywall	Green	Middle Center	-0.1	Negative
	Baseboard	Wood	White	A	-0.2	Negative
	Door	Wood	Red	A	0.1	Negative
	Door Casings	Wood	White	A	0.1	Negative
	Cubby	Wood	Rd	D	-0.1	Negative
	Wall	Drywall	White	A	-0.1	Negative
Restroom 2	Wall	Drywall	White	B	-0.2	Negative
	Wall	Drywall	White	C	0.0	Negative
	Wall	Drywall	White	D	-0.1	Negative
	Ceiling	Drywall	White	Middle Center	0.0	Negative
	Baseboard	Wood	White	B	0.0	Negative
	Wall	Wood	Light Brown	Middle Center	0.5	Negative
	Shutter	Wood	Green	Middle Center	-0.1	Negative
	Window Sill	Wood	White	Middle Center	-0.1	Negative
	Window Sash	Wood	White	Middle Left	0.5	Negative
	Window Casings	Wood	White	Middle Left	0.3	Negative
Exterior A	Window Frame	Wood	White	Middle Left	0.5	Negative
	Soffit	Wood	White	Top Left	-0.2	Negative
	Fascia	Wood	White	Top Left	0.0	Negative
	Garage Door	Metal	Light Brown	Top Right	0.8	Negative
	Wall	Wood	Light Brown	Bottom Left	4.7	Positive
	Window Sill	Wood	White	Middle Center	0.5	Negative
	Window Sash	Wood	White	Middle Center	2.0	Positive
	Window Casings	Wood	White	Middle Center	1.0	Positive
	Window Frame	Wood	White	Middle Center	3.2	Positive
	Soffit	Wood	White	Top Left	-0.2	Negative
Exterior B	Fascia	Wood	White	Top Left	0.0	Negative
	Wall	Wood	Light Brown	Top Left	0.0	Negative
	Window Sill	Wood	White	Middle Center	-0.1/0.0	Negative
	Window Sash	Wood	White	Middle Right	0.0	Negative
	Window Casings	Wood	White	Middle Right	0.1	Negative
	Window Frame	Wood	White	Middle Right	0.2	Negative
	Door	Metal	White	Middle Right	1.6	Positive
	Door Casings	Wood	White	Center Right	0.0	Negative
	Soffit	Wood	White	Center Right	0.1	Negative
	Fascia	Wood	White	Top Center	0.6	Negative
Exterior C	Wall	Wood	White	Top Center	0.0	Negative
	Window Sill	Wood	White	Top Center	0.0	Negative
	Window Sash	Wood	White	Middle Right	0.0	Negative
	Window Casings	Wood	White	Middle Right	0.1	Negative
	Window Frame	Wood	White	Middle Right	0.2	Negative
	Door	Metal	White	Middle Right	1.6	Positive
	Door Casings	Wood	White	Center Right	0.0	Negative
	Soffit	Wood	White	Center Right	0.1	Negative
	Fascia	Wood	White	Top Center	0.6	Negative
	Wall	Wood	White	Top Center	0.0	Negative

Room	Component	Substrate	Color	Location	Reading (mg/cm ²)	Positive/Negative?
Exterior C	Door Casing	Wood	White	Middle Left	2.6	Positive
	Door	Wood	White	Top Center	0.0	Negative
	Wall	Wood	Blue	C	0.4	Negative
Exterior D	Wall	Wood	Light Brown	Middle Right	4.6	Positive
	Soffit	Wood	White	Top Left	0.1	Negative
	Fascia	Wood	White	Top Left	0.3	Negative
CALIBRATION 1131	-	-	-	0.9	Negative	
CALIBRATION 1131	-	-	-	1.0	Positive	
CALIBRATION 1131	-	-	-	1.0	Positive	

APPENDIX B
LABORATORY ANALYTICAL RESULTS



EMSL Analytical, Inc.

18369 Petroleum Drive, Baton Rouge, LA 70809

Phone/Fax: (225) 755-1920 / (225) 755-1989

<http://www.EMSL.com>

batonrougelab@emsl.com

EMSL Order:	252002869
CustomerID:	TCNL25
CustomerPO:	ET207139
ProjectID:	

Attn: **Steven Latiolais**
Terracon Consultants
524 Elmwood Park Blvd.
Ste. 170
New Orleans, LA 70123

Phone: (504) 818-3638
 Fax:
 Received: 06/16/20 9:25 AM
 Collected: 6/14/2020

Project: [REDACTED]

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
01-FL-01	252002869-0001	6/14/2020	6/16/2020	144 in ²	<10 µg/ft ²
	Site: 01-FL, Carpet				
01-WS-02	252002869-0002	6/14/2020	6/16/2020	70 in ²	<21 µg/ft ²
	Site: 01-Window Sill, Wood				
02-FL-03	252002869-0003	6/14/2020	6/16/2020	144 in ²	<10 µg/ft ²
	Site: 02-FL, Carpet				
02-WS-04	252002869-0004	6/14/2020	6/16/2020	117 in ²	<12 µg/ft ²
	Site: 02-Window Sill, Wood				
KT-FL-05	252002869-0005	6/14/2020	6/16/2020	144 in ²	<10 µg/ft ²
	Site: Kitchen-FI, Wood				
KT-WS-06	252002869-0006	6/14/2020	6/16/2020	101 in ²	<14 µg/ft ²
	Site: Kitchen-Window Sill, Wood				
04-FL-07	252002869-0007	6/14/2020	6/16/2020	144 in ²	<10 µg/ft ²
	Site: 04-FL, Carpet				
04-WS-08	252002869-0008	6/14/2020	6/16/2020	84 in ²	<17 µg/ft ²
	Site: 04-Window Sill, Wood				
05-FL-09	252002869-0009	6/14/2020	6/16/2020	144 in ²	<10 µg/ft ²
	Site: 05-FL, Carpet				
05-WS-10	252002869-0010	6/14/2020	6/16/2020	84 in ²	<17 µg/ft ²
	Site: 05-Window Sill, Wood				
00-BL1-11	252002869-0011	6/14/2020	6/16/2020	N/A	<10 µg/wipe

Jamie Laginess, Laboratory Operations Manager
or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 µg/wipe. ug/wipe =µg/ft² x area sampled in ft². Unless noted, results in this report are not blank corrected. EMSL maintain liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the results, it will be noted on the report. The lab is not responsible for data reported in µg/ft² which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950; A2LA Accredited Environmental Testing Cert. #2845.03.

Initial report from 06/16/2020 15:52:42



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

28009

18369 Petroleum Drive

Baton Rouge, LA 70809
PHONE: (225) 755-1920
FAX: (225) 755-1989

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 524 Elmwood Park Boulevard Suite 170		Third Party Billing requires written authorization from third party	
City: New Orleans	State/Province: LA	Zip/Postal Code: 70123	Country: US
Report To (Name): Steven Latiolais		Telephone #: 504-818-3638	
Email Address: steven.latiolais@terracon.com		Fax #:	Purchase Order: ET207139
Project Name/Number: Apple Tree/ET207139		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: LA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Steven Latiolais Signature of Sampler: *[Signature]*

Sample #	Location	Volume/Area	Date/Time Sampled
01-FL-01	01 - Floor, Carpet	144 in ²	6-14-20
01-WS-02	01 - Window Sill, Wood	70 in ²	6-14-20

Client Sample #s: _____ Total # of Samples: _____

Relinquished (Client): *[Signature]* Date: 6/15/20 Time: 1700

Received (Lab): *[Signature]* Date: 6/16/20 Time: 9:15 AM

Comments: RESERVATION PPYY-A9X7-9Q4X
Bill To: Terracon, 524 Elmwood Park Boulevard, Suite 170, New Orleans, LA, 70123, US
Attention: Steven Latiolais Phone: 504-818-3638 Email: Steven.Latiolais@terracon.com Purchase Order: ET207139

(E) Fed Ex 20/22



EMSL Analytical, Inc.

18369 Petroleum Drive, Baton Rouge, LA 70809
Phone/Fax: (225) 755-1920 / (225) 755-1989
<http://www.EMSL.com> batonrougelab@emsl.com

EMSL Order: 252002870
CustomerID: TCNL25
CustomerPO: ET207139
ProjectID:

Attn: **Steven Latiolais**
Terracon Consultants
524 Elmwood Park Blvd.
Ste. 170
New Orleans, LA 70123

Phone: (504) 818-3638
Fax:
Received: 06/16/20 9:25 AM
Collected: 6/14/2020

Project: [REDACTED]

Test Report: Lead in Soils by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
SO-PG-01	252002870-0001	6/14/2020	6/17/2020	0.5117 g	82 mg/Kg
	Site: Swing Set Bare Soil-Side C				
SO-DL-02	252002870-0002	6/14/2020	6/17/2020	0.5107 g	69 mg/Kg
	Site: Dripline Bare Soil-Side A				

Jamie Laginess, Laboratory Operations Manager
or other approved signatory

*Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. EMSL maintains limited liability to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the results, it will be noted on the report. Results reported based on dry weight. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950; A2LA Accredited Environmental Testing Cert. #2845.03.

Initial report from 06/17/2020 10:33:47



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING
LABORATORY PRODUCTS TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2870

18369 Petroleum Drive

Baton Rouge, LA 70809

PHONE: (225) 755-1920

FAX: (225) 755-1989

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 524 Elmwood Park Boulevard Suite 170		Third Party Billing requires written authorization from third party.	
City: New Orleans	State/Province: LA	Zip/Postal Code: 70123	Country: US
Report To (Name): Steven Latiolais		Telephone #: 504-818-3638	
Email Address: steven.latiolais@terracon.com		Fax #:	Purchase Order: ET207139
Project Name/Number: Apple Tree/ET207139		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: LA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Steven Latiolais Signature of Sampler: *[Signature]*

Sample #	Location	Volume/Area	Date/Time Sampled
SO-PG-01	Swing Set Bare Soil - Side C		6-14-20
SO-DL-02	Dripline Bare Soil - Side A		6-14-20

Client Sample #s: _____ Total # of Samples: _____

Relinquished (Client): *[Signature]* Date: 6/15/20 Time: 1700

Received (Lab): *[Signature]* Date: 6.16.20 Time: 9:15AM

Comments:
RESERVATION PPHY-A9X7-9Q4X
Bill To: Terracon, 524 Elmwood Park Boulevard, Suite 170, New Orleans, LA, 70123, US
Attention: Steven Latiolais Phone: 504-818-3638 Email: Steven.Latiolais@terracon.com Purchase Order: ET207139

(E) Fed Ex 10/2

June 18, 2020

Steven Latiolais
Terracon
524 Elwood Park Blvd
,

RE: Project: ET207139
Pace Project No.: 20158832

Dear Steven Latiolais:

Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

Per the client, the correct sample date is 6/14/20 not 6/15/20 as is listed on the coc.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Melissa MacNaughton
melissa.macnaughton@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Diana Day, Terracon



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ET207139

Pace Project No.: 20158832

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ET207139

Pace Project No.: 20158832

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20158832001	KT1-DI-01	Drinking Water	06/14/20 11:43	06/15/20 12:00
20158832002	KT1-D2-02	Drinking Water	06/14/20 11:55	06/15/20 12:00
20158832003	KT2-D1-03	Drinking Water	06/14/20 11:45	06/15/20 12:00
20158832004	KT2-D2-04	Drinking Water	06/14/20 11:52	06/15/20 12:00
20158832005	KT3-D1-05	Drinking Water	06/14/20 11:50	06/15/20 12:00
20158832006	KT3-D2-06	Drinking Water	06/14/20 11:52	06/15/20 12:00
20158832007	RR1-D1-07	Drinking Water	06/14/20 11:56	06/15/20 12:00
20158832008	RR1-D2-08	Drinking Water	06/14/20 11:57	06/15/20 12:00
20158832009	RR2-D1-09	Drinking Water	06/14/20 12:00	06/15/20 12:00
20158832010	RR2-D2-10	Drinking Water	06/14/20 12:01	06/15/20 12:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ET207139

Pace Project No.: 20158832

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20158832001	KTI-DI-01	EPA 200.8	SLG	1	PASI-O
20158832002	KTI-D2-02	EPA 200.8	SLG	1	PASI-O
20158832003	KT2-D1-03	EPA 200.8	SLG	1	PASI-O
20158832004	KT2-D2-04	EPA 200.8	SLG	1	PASI-O
20158832005	KT3-D1-05	EPA 200.8	SLG	1	PASI-O
20158832006	KT3-D2-06	EPA 200.8	SLG	1	PASI-O
20158832007	RR1-D1-07	EPA 200.8	SLG	1	PASI-O
20158832008	RR1-D2-08	EPA 200.8	SLG	1	PASI-O
20158832009	RR2-D1-09	EPA 200.8	SLG	1	PASI-O
20158832010	RR2-D2-10	EPA 200.8	SLG	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: ET207139

Pace Project No.: 20158832

Method: EPA 200.8

Description: 200.8 MET ICPMS Drinking Water

Client: Terracon - New Orleans

Date: June 18, 2020

General Information:

10 samples were analyzed for EPA 200.8 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ET207139
Pace Project No.: 20158832

Sample: KTI-DI-01	Lab ID: 20158832001	Collected: 06/14/20 11:43	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		06/18/20 11:42	7439-92-1	
Sample: KTI-D2-02	Lab ID: 20158832002	Collected: 06/14/20 11:55	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		06/18/20 11:51	7439-92-1	
Sample: KT2-D1-03	Lab ID: 20158832003	Collected: 06/14/20 11:45	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	2.3	ug/L	1.0	1		06/18/20 11:46	7439-92-1	
Sample: KT2-D2-04	Lab ID: 20158832004	Collected: 06/14/20 11:52	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		06/18/20 11:48	7439-92-1	
Sample: KT3-D1-05	Lab ID: 20158832005	Collected: 06/14/20 11:50	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	1.2	ug/L	1.0	1		06/18/20 11:47	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ET207139
Pace Project No.: 20158832

Sample: KT3-D2-06	Lab ID: 20158832006	Collected: 06/14/20 11:52	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		06/18/20 11:50	7439-92-1	

Sample: RR1-D1-07	Lab ID: 20158832007	Collected: 06/14/20 11:56	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		06/18/20 11:54	7439-92-1	

Sample: RR1-D2-08	Lab ID: 20158832008	Collected: 06/14/20 11:57	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		06/18/20 11:56	7439-92-1	

Sample: RR2-D1-09	Lab ID: 20158832009	Collected: 06/14/20 12:00	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		06/18/20 11:57	7439-92-1	

Sample: RR2-D2-10	Lab ID: 20158832010	Collected: 06/14/20 12:01	Received: 06/15/20 12:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		06/18/20 11:58	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ET207139
Pace Project No.: 20158832

QC Batch: 641768 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 20158832001, 20158832002, 20158832003, 20158832004, 20158832005, 20158832006, 20158832007, 20158832008, 20158832009, 20158832010

METHOD BLANK: 3489868 Matrix: Water
Associated Lab Samples: 20158832001, 20158832002, 20158832003, 20158832004, 20158832005, 20158832006, 20158832007, 20158832008, 20158832009, 20158832010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	1.0	06/18/20 12:01	

LABORATORY CONTROL SAMPLE: 3489869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.5	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3489863 3489864

Parameter	Units	20158832001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	50	50	50.2	51.7	100	103	70-130	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3489865 3489866

Parameter	Units	20158832010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	50	50	52.7	52.4	105	104	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ET207139

Pace Project No.: 20158832

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ET207139

Pace Project No.: 20158832

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20158832001	KTI-DI-01	EPA 200.8	641768		
20158832002	KTI-D2-02	EPA 200.8	641768		
20158832003	KT2-D1-03	EPA 200.8	641768		
20158832004	KT2-D2-04	EPA 200.8	641768		
20158832005	KT3-D1-05	EPA 200.8	641768		
20158832006	KT3-D2-06	EPA 200.8	641768		
20158832007	RR1-D1-07	EPA 200.8	641768		
20158832008	RR1-D2-08	EPA 200.8	641768		
20158832009	RR2-D1-09	EPA 200.8	641768		
20158832010	RR2-D2-10	EPA 200.8	641768		

REPORT OF LABORATORY ANALYSIS

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WO#: 20158832

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.



20158832

Section A

Required Client Information:

Company: Terracon - New Orleans
 Address: 524 Elwood Park Blvd
 Suite 170, New Orleans, LA 70123
 Email: steven.lafolais@terracon.com
 Phone: NONE Fax: NONE
 Requested Due Date: 6-18-20

Report To: Lafolais, Steven
 Copy To:
 Purchase Order #:
 Project Name: Drinking Water
 Project #: ET 207139

Section B

Required Project Information:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: melissa.mccraughton@paceelabs.com
 Pace Profile #: 1482612

Section C

Invoice Information:

Regulatory Agency:
 State/Location: LA

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-RAB C-COMP)	MATRIX CODE (see valid codes to left)	DATE		# OF CONTAINERS	PRESERVATIVES		Analytes Test	drinking water-head	Residual Chlorine (Y/N)
			START	END			DATE	TIME		UNPRESERVED	H2SO4			
1	Drinking Water	DW	11/13	11/13	DWG	DWG	6/15/20	11:43	1	Unpreserved				
2	Water	WT	11/15	11/15			6/15/20	11:18	1					
3	Waste Water	WW	11/15	11/15			6/15/20	11:15	1					
4	Product	P	11/15	11/15			6/15/20	11:52	1					
5	Salt/Solid	SL	11/15	11/15			6/15/20	11:50	1					
6	CJ	CJ	11/15	11/15			6/15/20	11:52	1					
7	Wipe	WIP	11/15	11/15			6/15/20	11:56	1					
8	Air	AR	11/15	11/15			6/15/20	11:57	1					
9	Other	OT	12/00	12/00			6/15/20	12:00	1					
10	Tissue	TS	12/01	12/01			6/15/20	12:01	1					

ADDITIONAL COMMENTS: *Handwritten notes and signatures*

RELINQUISHED BY/AFFILIATION: *Steven Lafolais*

DATE: 6/15/20 **TIME:** 12:00

RECEIVED BY/AFFILIATION: *Alex Pace*

DATE: 6/15/20 **TIME:** 12:00

SAMPLE CONDITIONS: Received on: *AMB* Isoc: *N* Sealed: *Y* Cooler: *Y* Samples Intact: *Y*

SAMPLER NAME AND SIGNATURE: *Steven Lafolais*

PRINT Name of SAMPLER: Steven Lafolais

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 6/17/20



1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Receipt

Project #: **20**

Courier: Pace Courier Hired Courier Fed X UPS DHL USPS Customer Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: Yes No

Thermometer Used: Therm Fisher IR 7
 Therm Fisher IR 10

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/15/20 [Signature]

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Chain of Custody Complete:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8
Filtered vol. Rec. for Diss. tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10
All containers received within manufacture's precautionary and/or expiration dates.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

APPENDIX C
XRF PERFORMANCE CHARACTERISTIC SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make: *Heuresis*
Models: *Model Pb200i*
Source: *⁵⁷Co, 5 mCi (nominal – new source)*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm ² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading})/6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm ²)	Mean Reading Time (seconds)	Standard Deviation (seconds)
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

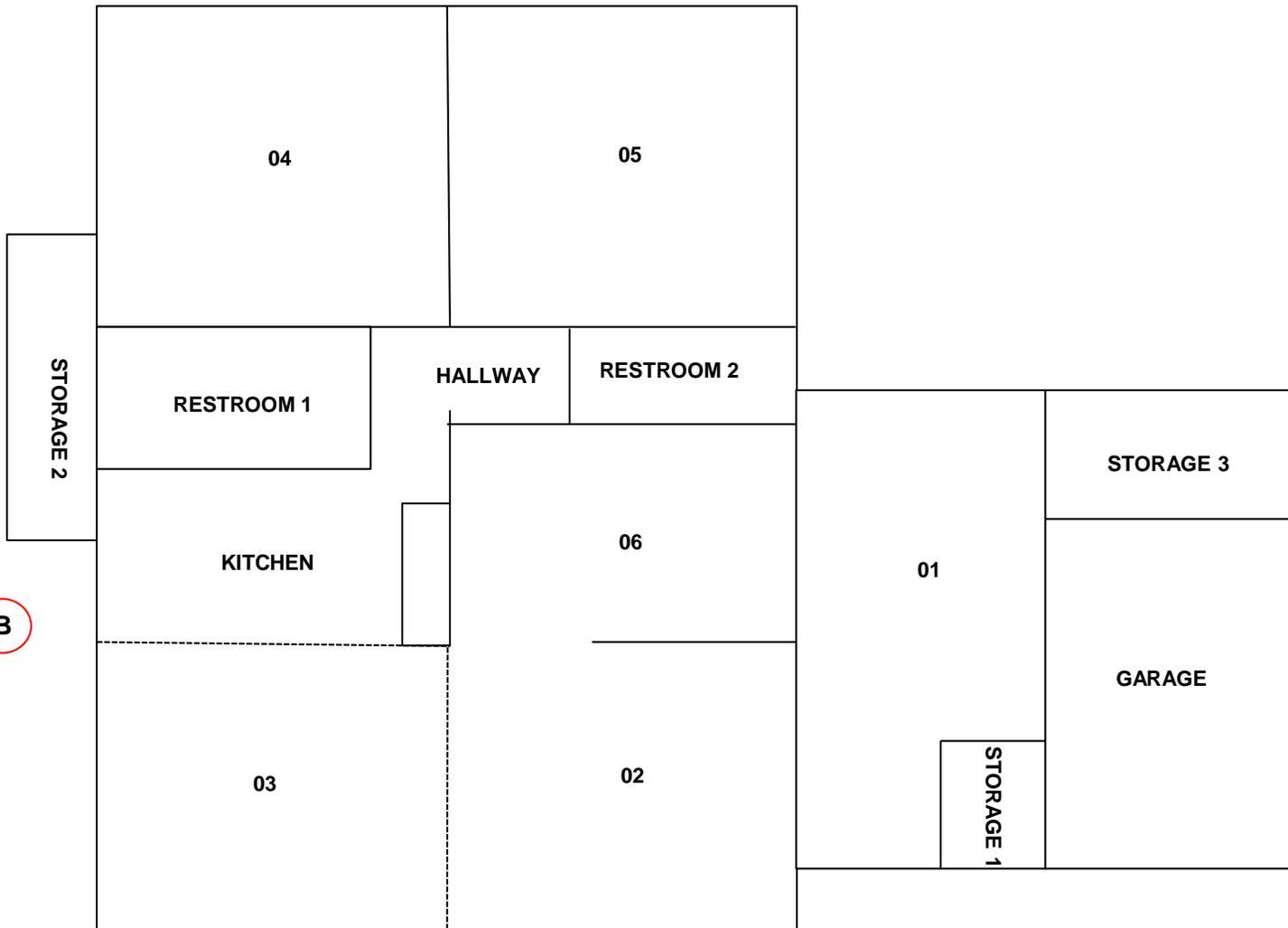
A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.

APPENDIX D
SITE DRAWING

SWINGSET

C



D

B

A

HIGHWAY 933

*DRAWING NOT TO SCALE

EXHIBIT 1.0

SITE MAP

████████████████████
 ████████████████████
 PRAIRIEVILLE, LOUISIANA
 TERRACON PROJECT ET207139



APPENDIX E
SITE PHOTOGRAPHS



View of Side A of the subject structure. Components assumed with LBP identified with red arrows.



View of Side B of the subject structure. Components identified with LBP shown with red arrows.



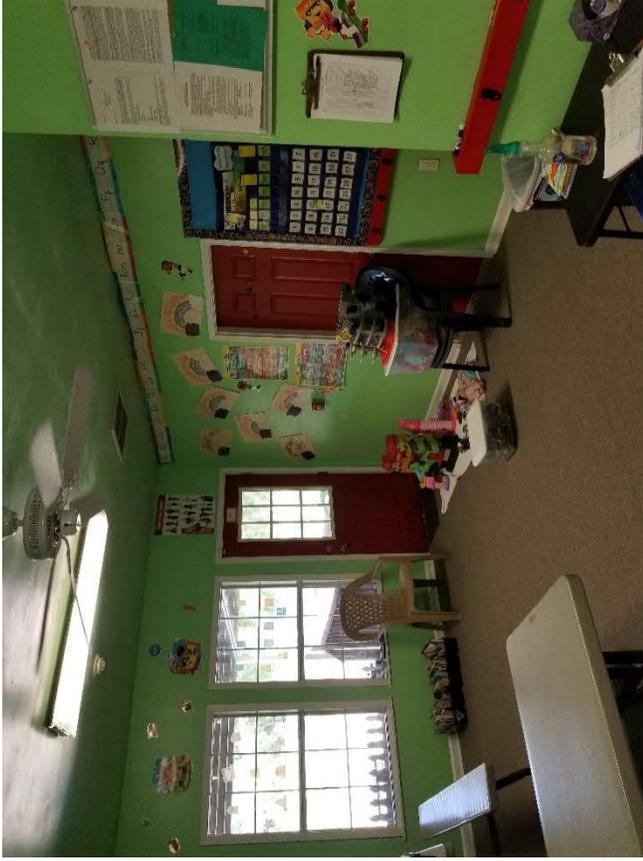
View of Side C of the subject structure. Window systems identified with LBP shown with red arrows.



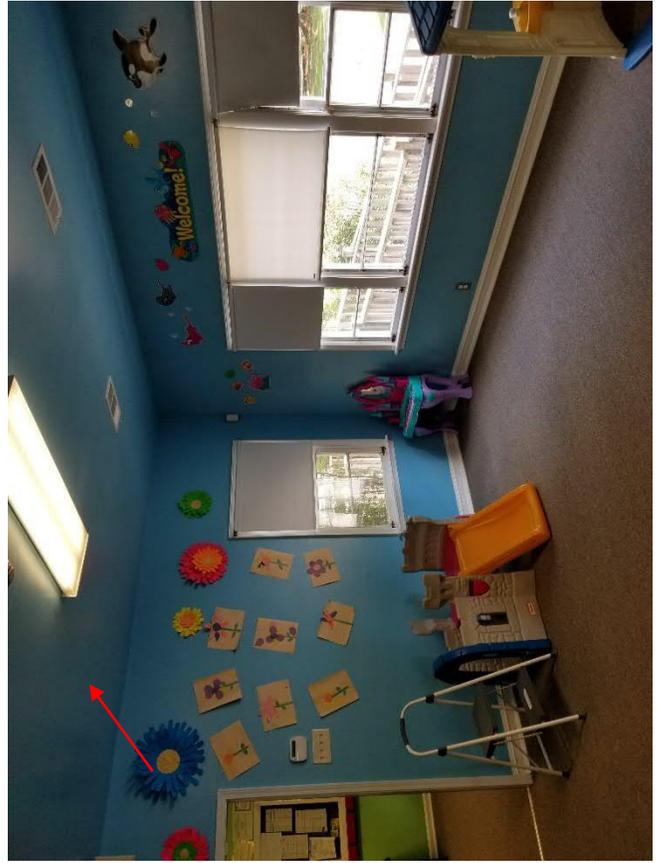
Additional view of Side C of the subject structure. Components identified with LBP shown with red arrows.



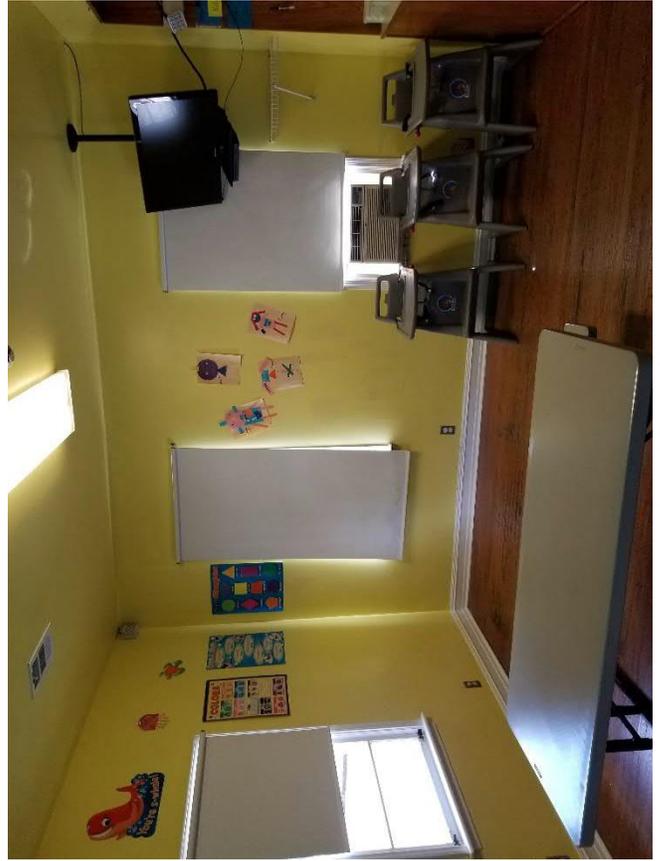
View of Side D of the subject structure. Components identified/assumed with LBP shown with red arrows.



View of Room 01.



View of Room 02. Component identified with LBP shown with red arrow.



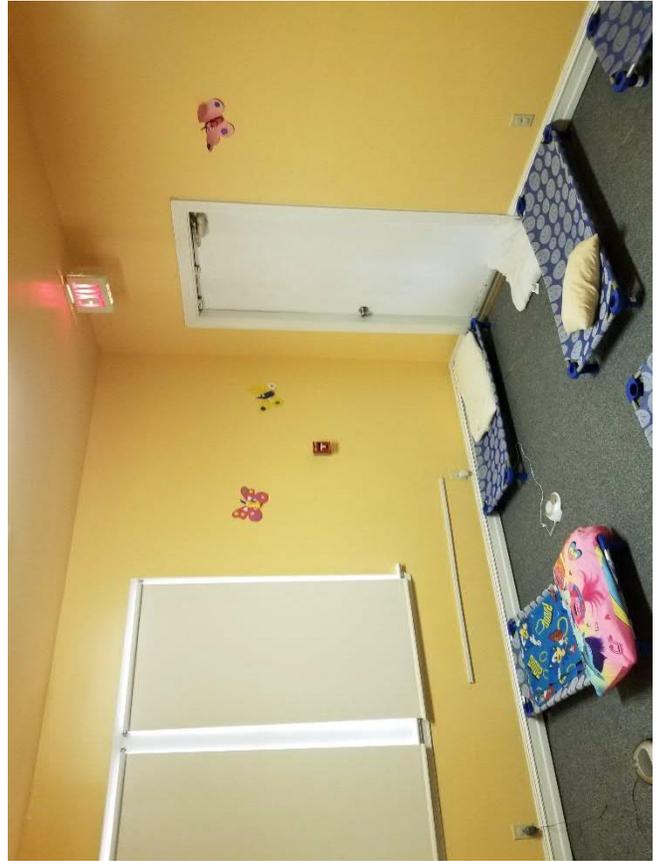
View of Room 03.



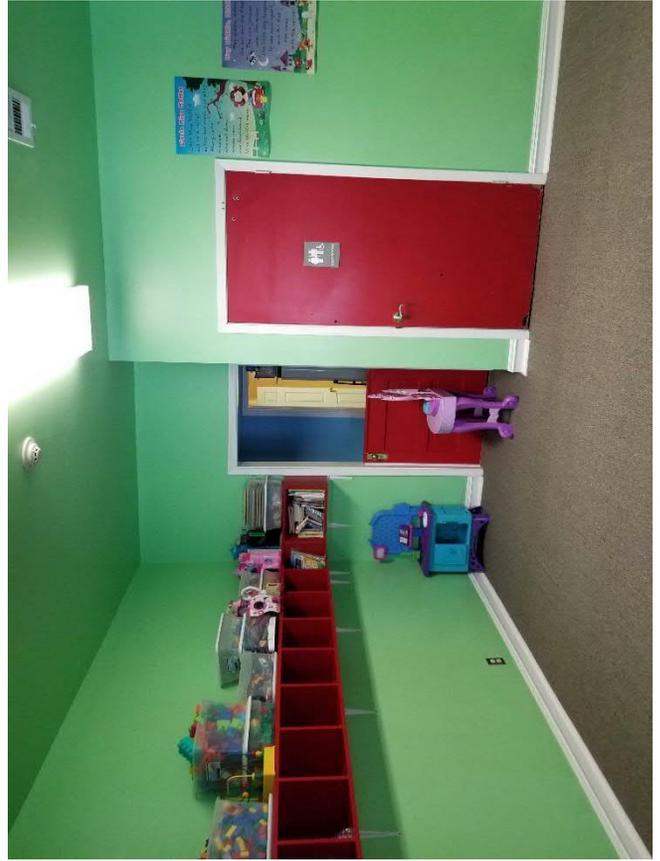
View of the Kitchen.



View of Room 04.



View of room 05



View of Room 06



View of window system identified with LBP in Room 01/06.

APPENDIX F
CERTIFICATIONS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Steven Latiolais

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

Lead Risk Assessor

Accreditation No. MR200658

AI No. 200658

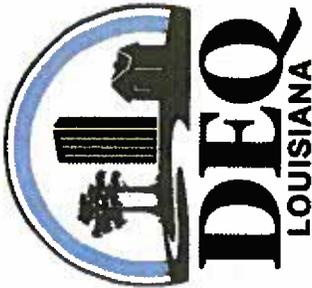
Date of Issuance June 5, 2020

Expiration March 4, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division
Office of Environmental Services



**STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY**

Is hereby granting a Louisiana Environmental Laboratory Accreditation to



**EMSL Analytical Inc
18369 Petroleum Dr
Baton Rouge, Louisiana 70809**

**Agency Interest No. 205208
Activity No. ACC20190001**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Cheryl Sonnier Nolan
Administrator
Public Participation and Permit Support Services Division

Issued Date: 27 June 2019
Effective Date: July 1, 2019
Expiration Date: June 30, 2020
Certificate Number: 01950



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2019

18369 Petroleum Dr, Baton Rouge, Louisiana 70809

Certificate Number: 01950

EMSL Analytical Inc
AI Number: 205208
Activity No. ACC20190001
Expiration Date: June 30, 2020

Air Emissions

Analyte	Method Name	Method Code	Type	AB
1520 - Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NVLAP	LA
100683 - Fungal - Direct Examination (Air)	EMSL Micro-SOP-201	9321	A2LA	LA
1075 - Lead	NIOSH 7082, Rev.2	90012230	A2LA	LA

Non Potable Water

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
100095 - Asbestos in Bulk Insulation	40 CFR 763, Subpart E, Appendix E (Section 1.PLM)	2004	NVLAP	LA
100681 - Fungal - Direct Examination (Bulk)	EMSL Micro-SOP-200	9322	A2LA	LA
100682 - Fungal - Direct Examination (Surface)	EMSL Micro-SOP-200	9322	A2LA	LA
1075 - Lead	EPA 3050	10135203	A2LA	LA
1075 - Lead	EPA 7000	10157401	A2LA	LA
1520 - Asbestos	EPA 600/R-93/116	10294583	NVLAP	LA

Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE



Accredited Laboratory

A2LA has accredited

EMSL ANALYTICAL, INC.

Baton Rouge, LA

for technical competence in the field of

Environmental Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This laboratory also meets the requirements of A2LA R207 – Environmental Lead Testing Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 14th day of March 2019.

A blue ink signature of the Vice President, Accreditation Services, for the Accreditation Council.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2845.03
Valid to March 31, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL ANALYTICAL, INC.
18369 Petroleum Drive
Baton Rouge, LA 70809
Jamie Laginess Phone: (225) 755-1920

ENVIRONMENTAL

Valid To: March 31, 2021

Certificate Number: 2845.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below; for the test methods applicable to the National Environmental Lead Laboratory Accreditation Program (NLLAP).

ENVIRONMENTAL LEAD	
Test	Test Method(s)
Total Lead (Pb) in Dust Wipes	EPA 7000B – (FLAA), 3050 Modified Hotblock Digestion
Total Lead (Pb) in Paint Chips	EPA 7000B – (FLAA), 3050 Modified Hotblock Digestion
Total Lead (Pb) in Soil	EPA 7000B – (FLAA), 3050 Modified Hotblock Digestion
AIR MATRIX*	
Total Lead (Pb) in Airborne Dust – Filter/Cassette	Air NIOSH 7082 – (FLAA), 3050 Modified Hotblock Digestion

*Not NLLAP program

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

ENVIRONMENTAL MICROBIOLOGY	
Test	Test Method(s)
Fungal – Direct Examination (Bulk)	MICRO-SOP-200 – Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments, and Fibrous Material from Surface Samples.

Test	Test Method(s)
Fungal – Direct Examination (Surface)	MICRO-SOP-200 – Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments, and Fibrous Material from Surface Samples.
AIR MATRIX	
Fungal – Spore Traps Direct Examination	MICRO-SOP-201, ASTM D7391 – Standard Operating Procedure for the Analysis of Airborne Fungal Spores, Hyphal Fragments, Pollen, Insect Fragments, Skin Fragments and Fibrous Particulate by Optical Microscopy of Spore Trap Samples.





STATE OF LOUISIANA

DEPARTMENT OF HEALTH
OFFICE OF PUBLIC HEALTH



PACE ANALYTICAL SERVICES, LLC. ORMOND BEACH, FL

8 East Tower Circle

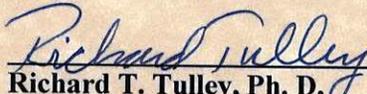
Ormond Beach, FL 32174

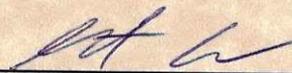
is accredited by the State of Louisiana in accordance with
the 2009 TNI Standard and/or Department of Health regulations
Louisiana Administrative Code 48:V.Chapter 80 and
Louisiana Administrative Code 51:XII.101 and 301

Scope of accreditation is limited to the
“TNI Accredited Fields of Testing”
which accompany this certificate

Continued accredited status depends on successful
ongoing participation in the program

CERTIFICATE NUMBER: LA013
EFFECTIVE DATE: January 1, 2020
EXPIRATION DATE: December 31, 2020


Richard T. Tulley, Ph. D.,
Public Health Laboratory Director
1209 Leesville Avenue
Baton Rouge, Louisiana 70802


Grant Aucoin
Laboratory Accreditation Program
Manager

subject to forfeiture or revocation



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Is hereby granting a Louisiana Environmental Laboratory Accreditation to



Pace Analytical Services LLC Ormond Beach Fl
8 E Lower Cir
Ormond Beach, Florida 32174-8759

Agency Interest No. 169038
Activity No. ACC20190001

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and agrees to adapt to any changes in the requirements. It also acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I and the 2009 TNI Standard by which the laboratory was assessed. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.



Cheryl Sonnier Nolan
Administrator
Public Participation and Permit Support Services Division

Issued Date:  26 June 2019

Effective Date: July 1, 2019
Expiration Date: June 30, 2020
Certificate Number: 05007