SLADE

ENVIRONMENTAL SERVICES | GENERAL CONTRACTING

Statement of Qualifications

Geotechnical and Environmental Services

March 19, 2018

SLADE

ENVIRONMENTAL SERVICES | GENERAL CONTRACTING

SECTION 1

FIRM OVERVIEW

FIRM OVERVIEW

Slade Land Use, Environmental Services, and Transportation Planning, LLC (Slade) began in 2006, in Birmingham, Alabama. Slade is a minority woman-owned environmental services and general contracting firm (licensed in Alabama and Mississippi). Our primary focus is Environmental Services, Geotechnical Services, General Contracting, Construction Material Testing, and Urban Planning. This includes Environmental Assessments Phase I, II, and III, Ground Water and Soil Testing, Asbestos Inspections, Lead Inspections, Brownfield Redevelopment, Remediation, Restoration, Risk Assessment, Environmental Compliance, Environmental Permitting, Solid and Hazardous Waste Management/Compliance, Project Management Sustainability and Energy Efficiency. Slade provides support to public and private sector clients by assuring compliance with Federal and State environmental regulatory programs, including preparation of Environmental Impact Statements under the National Environmental Policy Act. SLADE has served clients for over 12 years throughout the United States. L'Tryce Slade is the owner and Managing Director of the Firm.

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ENVIRONMENTAL SERVICES | GENERAL CONTRACTING

SECTION 2

LICENSES AND CERTIFICATIONS

LICENSES AND CERTIFICATIONS

Our firm includes construction project managers, environmental scientists, urban planners, and construction material testing professionals for both public and private sector organizations. The staffing practices include exposing the team members to certifications that will enhance their background in environmental services and planning. Most of the staff already had educational background, training, and monitoring before coming to Slade. Slade continues to expose them to additional training and certification opportunities.

Slade is an 8(a), HubZone, DBE, WBENC, MBE, EDWOSB, 100% minority woman-owned firm. Slade is licensed to perform Environmental Assessments throughout the country. Slade is certified for:

- Hazwoper 40
- NIOSH 582 Certified
- Asbestos Inspector
- Lead Inspector
- Abatement Supervisor
- Abatement Designer
- Mold Inspector
- Environmental Institute Phase I
- Qualified Credential Inspector for Best Management Practices
- Roadway Technician
- American Concrete Institute Field Testing
- Radiation Safety Officer
- Asphalt Level I
- Aggregate Level I
- Earth Work
- American Concrete Institute Strength Testing
- OSHA 10 and OSHA 30
- ACI Field Technician and ACI Strength
- US Army Corps of Engineers and Naval Facility Engineering Command Training for Construction Quality Management for Contractors
- Green Professional National Association of Home Builders
- Completed the Green Jobs for Alabama Workforce Program
- US EPA Proposal Writing
- EPA NPDES Permit Writers' Training Course; GA Partnership for Transportation Quality
- Environmental Justice and Public Involvement Training
- DOT Context Sensitive Design
- Waste Reduction and Technology Transfer Foundation Energy Efficiency Certification

THIS CERTIFIES THAT

Slade Land Use, Environmental, and Transportation Planning, LLC

Slade

NMSDC
National Minority Supplier Development Council

* Nationally certified by the: **SOUTHERN REGION MINORITY SUPPLIER DEVELOPMENT COUNCIL**

*NAICS Code(s): 236220; 236210; 541380; 541620

* Description of their product/services as defined by the North American Industry Classification System (NAICS)

08/01/2017		SR01138
Issued Date		**Certificate Number**
05/19/2018	Louis Green	
Expiration Date		**Alvin-o Williams Interim President/CEO**

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: http://nmsdc.org

Certify, Develop, Connect, Advocate

* MBEs certified by an Affiliate of the National Minority Supplier Development Council, Inc.®

WBENC | Women's Business Enterprise National Council

hereby grants

National Women's Business Enterprise Certification

to

Slade Land Use, Environmental, and Transportation Planning
DBA Slade

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE).
This certification affirms the business is woman-owned, operated and controlled; and is valid through the date herein.

Certification Granted: August 31, 2014
Expiration Date: August 31, 2018
WBENC National Certification Number: 2005125122

WBENC National WBE Certification was processed and validated by Women's Business Enterprise Council - South, a WBENC Regional Partner Organization.

Authorized by Phala Mire, President
Women's Business Enterprise Council - South

WBEC SOUTH

NAICS: 236210, 236220, 541330, 541380, 541620, 561210
UNSPSC: 70131701, 77101600, 77101605, 81141606

ALABAMA UNIFIED CERTIFICATION PROGRAM

The WAVE Transit System | Port of Huntsville | Alabama Department of Transportation | Alabama State Port Authority | Birmingham Airport Authority

DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

This is to Certify that

SLADE LAND USE, ENVIRONMENTAL & TRANSPORTATION PLANNING

has been certified by the *Alabama Department of Transportation*
as a Disadvantaged Business Enterprise in accordance with
49 CFR Part 23 & 26 as published in the Federal Register

Certification Number: 09-00394

Issuance Date: September 22, 2017

Annual Affidavit Due Date: September 22, 2018

John R. Cooper

John R. Cooper, Transportation Director

BIRMINGHAM CONSTRUCTION INDUSTRY AUTHORITY

SLADE L.E.T PLANNING, LLC

has been Certified as a
MINORITY BUSINESS ENTERPRISE

with the Birmingham Construction Industry Authority.

Valid From: **01/01/2017** To: **12/31/2017**

Certification Number: **566-1-1-08A**

Richard H. Bell
Executive Director

Ashley Orr
Administrative Assistant

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ENVIRONMENTAL SERVICES | GENERAL CONTRACTING

SECTION 3

ENVIRONEMNTAL QUALIFICATIONS AND EXPERIENCE

ENVIRONMENTAL QUALIFICATIONS

SLADE provides comprehensive environmental services for public and private clients. We have developed an excellent reputation in providing cost-effective solutions to evaluate and resolve the environmental risks associated with your project. SLADE's technicians have years of experience in working regulatory agencies to solve complex environmental problems. Our multi-disciplined staff can provide you with comprehensive services within a regulatory compliance framework. We have established a strong relationship with several state and federal regulatory across the United States.

Slade will contract with the appropriately licensed professional engineers and/or firms to ensure the engineering services necessary for the project are completed.

The services we provide are shown below.

Site Investigation and Assessment

- Investigation/Feasibility Study
- Phase I and II Investigations

Compliance Systems

- Waste Minimization and Management Planning
- Training

Risk Assessment

- Risk-Based Cleanup Criteria
- Risk-Based Closure Analysis
- Human Risk Analysis

Underground Storage Tanks

- Site Investigation
- Groundwater Monitoring
- Removal Oversite
- Contamination Assessment
- Remedial System Implication

Safety and Training

- OSHA Compliance

Solid and Hazardous Waste

- Landfill and Impoundment Siting, Expansion, Permitting and Closure
- Waste Characterization
- Waste Minimization

Wetlands and Ecology

- Environmental Impact Studies
- Wetlands Delineation and Permitting
- Sensitive Habitat Studies
- NEPA Compliance Documentation
- Ecological Risk Assessment

Regulatory Support

- NPDES Permitting
- Best Available Technology Management Practices
- Permit Preparation and Negotiations
- Compliance Plans

Construction Management

- Building Construction

ENVIRONMENTAL EXPERIENCE

PHASE I ASSESSMENTS

University of Alabama at Birmingham, Birmingham, AL
Conducted an Environmental Assessment for the Occupational Health and Safety Environmental Site Assessment. (4/12)

University of Alabama at Birmingham, Birmingham, AL
Conducted an Environmental Assessment for purchasing property. (9/12)

Bailey Harris Construction, Auburn, AL
Conducted an Environmental Phase I study on the Samford 42.42 property. Served as an environmental consultant prime contractor. (3/14)

Jefferson County Office of Community and Economic Development, City of Midfield, AL Recreation Center
Served as an environmental services consultant prime contractor for an environmental phase I assessment.(10/15)

Jefferson County Office of Community and Economic Development, City of Trafford, AL
Provided an Environmental Phase I Assessment. (10/15)

Jefferson County Office of Community and Economic Development, Murphree Road Project, Birmingham, AL
Endangered species study, construction management, Environmental Phase I Assessment, geotechnical study and NPDES Permit. (8/11-Current)

Jefferson County Office of Community and Economic Development West Highland Water Line, Birmingham, AL
Endangered species study, construction management, Environmental Phase I Assessment and NPDES Permit. (8/11-Current)

First Baptist Church Woodlawn, Birmingham, AL
Provided an environmental phase I assessment and reconnaissance for underground tank. (1/15)

Dynamic Civil Solutions, Birmingham, AL
Provided a cultural resource assessment consisting of a Phase I shovel test survey that conforms to the standards and guidelines of the Alabama Historical Commission. (08/15)

Hatch Mott McDonald, Midfield Recreation Park Improvement
Midfield, AL
Provided assessment for the City of Midfield Recreation Center. (10/15)

City of Huntsville, Holiday Inn
Phase I Assessment for the City of Huntsville for existing hotel site. (09/14)

Silagi Development Management, Thousand Oaks, CA
Environmental Phase I for the Friskars Building in Opelika, AL

Birmingham-Jefferson Civic Center, Birmingham, AL
Conducted an Environmental Site Assessment for a purchase of property for various extension projects. (12/14)

The Integral Group, Birmingham, AL
Environmental Phase I Assessment, Powell Public School. (02/15)

City of Huntsville, AL
Environmental Phase I Assessment for Sherman Concrete (04/15) and a Phase I Assessment Williams Aquatic Center and Scruggs Center projects, (09/14)

City of Birmingham, AL
Environmental assessment a Fire Station property (12/12)

National Forests in Alabama, USDA Forest Service
Performed environmental site assessment on forestland that USDA Forest Service wanted to acquire in June of 2010 and again on a second location in November of 2010.

Birmingham-Jefferson Civic Center, Birmingham, AL
Conducted an Environmental Site Assessment for a purchase of property for an expansion project. (07/09)

Birmingham-Jefferson Civic Center, Birmingham, AL
Environmental Phase I Assessment for 1040 19th Street North. (12/14)

City of Birmingham, AL Office of Economic Development
Environmental Phase I Assessment for Ken Adams.

Nova Law, Harmony Medi Spa, Birmingham, AL
Conducted an Environmental Site Assessment for a Medi Spa location. (10/09)

J. L. Davis Consultants, Inc., Birmingham, AL
Performed environmental site assessment on strip mall that BBVA Compass Bank wanted to acquire. (6/10)

Monumental Contracting Services, Birmingham, AL
Conducted an Environmental Baseline Sampling Temporary Debris Staging and Reduction. (6/11)

Southern Cal Transportation, Birmingham, AL
Performed environmental site assessment on adjacent property for purchase. (12/10)

Volkert and Associates, Birmingham, AL
Conducted an Environmental Site Assessment on Gary's Tire Repair Shop in order for the Birmingham City Schools to acquire the property for redevelopment of Hudson Elementary. (11/07)

Alabama Power, Birmingham, AL
Conducted an Environmental Phase I in Cowarts, Alabama. (12/12)

Powell Public School, Birmingham, AL
Environmental Phase I Assessment (1/15)

Birmingham Lee County Convention Center, Birmingham, AL
Conducted an Environmental Site Assessment for a purchase of property for an expansion project. (12/14)

First National Bank, Birmingham, AL
Environmental Phase I

Birmingham-Jefferson Civic Center, Birmingham, AL.
Conducted an Environmental Site Assessment for a purchase of property for an extension project. (12/14)

Jimmie Hudson Park, Birmingham, AL
Compliant with Compliant ESA industry standards in accordance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments and HUD regulations (24 CFR Part 58). (1/16)

Scott School Environmental Phase I, Birmingham, AL
Compliant ESA industry standards in accordance with ASTM E 1527-13, Standard Practice for Environmental Site Assessments and HUD regulations (24 CFR Part 58). (1/16)

PHASE II AND III ASSESSMENTS

City of Birmingham, Tiger Grant Project
Determined Sampling and Soil Management and Capping Plan for HUD funded project. Samples were analyzed for arsenic (EPA Method 200.8), lead (EPA Method 200.8) and PAH (Method 8310). TPH-DRO should be measured using EPA Method 8015-modified or its State-specific equivalent. Provided a report regarding options to develop the land based on the current environmental contamination. (2012, 2014)

City of Birmingham, Barons Parkside Baseball Project
Provided a voluntary cleanup plan for ADEM along with a Notice of Intent to Remove Tank. Other services included ground water monitoring and samples; soil testing, performed clearance; managed removal of manifest to landfill; brownfield related due diligence; voluntary property assessment and cleanup implementation report. (10/11 – Present)

Birmingham Jefferson Civic Center, Birmingham, AL
Provided geologist field investigation, data review/report preparation, analytical, vols, semi-vols, RCRA 8 metals, and drilling/well installation, well termination/closure. (03/15)

ENVIRONMENTAL INSPECTIONS – ASBESTOS

JBLM, US Army Corp of Engineer, Seattle, WA,
Pre-demolition survey for asbestos abatement. (2015)

Radford Army Ammunition Plant, US Army Corp of Engineers
Pre-demolition survey for asbestos abatement. (2015)

MOTCO, US Army Corp of Engineers, Concord, CA
Consulting Environmental Report Pre Demolition Surveys at MOTCO (2015)

Fort Hamilton, Brooklyn, NY, US Army Corp of Engineers
Asbestos pre-demolition survey (2015)

NASA, Baltimore, MD, US Army Corp of Engineers
Asbestos pre-demolition survey (2015)

US Army Corps of Engineers, Millington, TN
Pre-demolition survey effort at NASA Goddard SFC (2015)

Bulletin Construction, Birmingham, AL
Asbestos pre-demolition survey (2015)

Alabama Credit Union, Kimberly, AL
Asbestos pre-demolition survey (2015)

City of Birmingham, AL
Abatement plans, asbestos survey and report for sever recreation centers to include McAlpine in North Birmingham, Hooper City, Wiggins, M.L.K., and Ensley. Included floor plans, figures, and photographs. (2014)

City of Eutaw, AL
Prairie Road construction inspections project.

City of Eutaw, AL
Environmental report-asbestos inspection and samples for Eutaw City Hall roof. (2014)

Frank Walker II, Kennesaw, GA
Environmental report and asbestos inspection.

Frank Walker, Birmingham, AL
Specification for a vacant apartment complex. Removal and disposal of asbestos containing materials. (2014)

Ken Potter, Birmingham, AL
Asbestos pre-demolition survey. (2014)

Jefferson County Committee for Economic Development (JCCEO), Birmingham, AL
Asbestos inspection and report for St. Joseph. (2014)

Birmingham Shuttlesworth-International Airport, Birmingham, AL
Hazardous materials testing, monitoring and management services residential structures/parcels for the regional car quick turnaround development project. The proposed services include the development of demolition specifications and final report. Based on information provided by the client, the subject sites single story duplex apartments with a total of 36 Units. The buildings are to be demolished.

ENVIRONMENTAL INSPECTIONS – LEAD AND RADON

Huntsville Housing Authority, Lincoln Park Apartments, Huntsville, AL
Provided a lead-based paint inspection and report containing information concerning lead-based paint on window components at the Lincoln Park Apartments. (2014)

Jefferson County Committee for Economic Development (JCCEO), Birmingham, AL
Lead and radon inspections of 22 buildings for the headstart program. (2015)

ENVIRONMENTAL INSPECTIONS – MOLD

Bayer Properties, Sirote Permutt Building, Birmingham, AL
Mold investigation study through air monitoring and swabs. (2011)

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ENVIRONMENTAL SERVICES | GENERAL CONTRACTING

SECTION 4

GEOTECHNICAL QUALIFICATIONS AND EXPERIENCE

GEOTECHNICAL QUALIFICATIONS

SLADE believes that geotechnical services is a much of an art as a science. There is frequently more than one way to solve a geotechnical problem. Our years of experience and an understanding of predicting the behavior of highly variable subsurface conditions will provide you with a sound, cost-effective solution for any size project. While Slade offers Construction Materials Testing and Laboratory Services, it does not offer professional engineering services. Slade will contract with the appropriately licensed professional engineers and/or firms to ensure the engineering services necessary for the project are completed.

The services we provide are shown below.

Preliminary Studies

- Site Suitability Evaluation and Project Feasibility Studies
- Preliminary Subsurface Exploration

Design

- Geotechnical Investigations and Subsurface Exploration
- Foundation
- Pavement Testing
- Fill Material Evaluation
- Machine Foundation Analysis
- Embankment Stability Analysis
- Specification Preparation and Review

Construction

- Earthwork Monitoring
- Deep/Shallow Foundation Installation

Post Construction

- Failure Investigations
- Expert Testimony

GEOTECHNICAL/CONSTRUCTION MATERIALS TESTING (CMT) EXPERIENCE

TCI-Link
Geotechnical and Construction Material Testing (2017)

Health South of Montgomery, Montgomery, AL Generator pad geotechnical and construction material testing study. (2017)

Health South Valley of the Sun. Geotechnical and Construction Material Testing for generator pad. (2016)

Health South, Scottsdale, AZ. 205-283-0523. Geotechnical and Construction Material Testing for generator pad. (2016)

Mt. Canaan Church Expansion, Birmingham, AL
Geotechnical and Construction Material Testing. (2016-Present)

Doug Hollyhand Realty, Inc., Woodlawn Wood Station, Birmingham, AL
Geotechnical Services, Asphalt Testing, Base Testing, Qualified Credential Inspection, and Radon Testing. (2015)

Housing Authority of Birmingham District, Birmingham, AL
Geotechnical Report for Marks Village Building #20 and Elyton Village Building #20. (2015)

New Start Neighborhood, Birmingham, AL
Field work, drilling for two days, labor work, atterburgs, sieves moistures, proctor, logging classifications, senior review, geotechnical report.(2014)

Trivium Contractors, Birmingham, AL
Asbestos inspection for the American Car Center. (2014)

City of Birmingham, Birmingham, AL
Qualified credential inspection and geotechnical services for construction testing, observation, and reporting for the Negro Southern League Museum. (2014)

City of Huntsville, John Hunt Park, Huntsville, AL
Preliminary geotechnical exploration performed for John Hunt Parl. The report included results of field and laboratory testing, general foundation design recommendations, and general site recommendations.

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SECTION 5

KEY PERSONNEL RESUMES

SLADE
ENVIRONMENTAL SERVICES | GENERAL CONTRACTING

Training & Certification

Licensed General Contractor for Building Construction in Alabama 47737 and Mississippi 19404

Army Corps of Engineers and Naval Facility

Engineering Command Training for Construction Quality Management for Contractors

Completed the Green Jobs for Alabama Workforce Program

Hazwooper 40

13th Annual Due Diligence at Dawn Workshop Series

National Association of Home Builders Green Professional Certification

EPA NPDES Permit Writers' Training Course

OSHA 10 and 30 Certification

L'Tryce Slade
Managing Director

BACKGROUND

Ms. Slade is the managing director and owner of Slade Land Use, Environmental, and Transportation Planning, LLC. She brings over 12 years of experience with a focus toward construction materials testing (CMT)/geotechnical, environmental, general contracting and construction management services.

Ms. Slade has been a business leader in the central Alabama contracting community for a decade serving in such roles as the chair of the Birmingham Business Alliance African American Business Council, co-chair of the Executive Women's Roundtable for the Birmingham Business Alliance, and was asked to be a member of the Steering Committee for the Pratt Community Regional Urban Design Assistance Team Landscape and Ecology and as a member of the Community Outreach Subcommittees after the 2011 tornado.

EXPERIENCE

CMT and Geotechnical

University of Alabama at Birmingham, Transit Shelter Project – Performed Performed compaction testing; observation of reinforcement steel; sampling an testing of concrete placement including monitor slump, cast cylinders for compression testing, pickup and delivery of samples to laboratory for testing, test concrete cylinders for compressive strength. (2014)

City of Birmingham, Cooper Green Park – Performed compaction testing; testing; observation of reinforcement steel; sampling an testing of concrete placement including monitor slump, cast cylinders for compression testing, pick-up and delivery of samples to laboratory for testing, test concrete cylinders for compressive strength. (2014–2015)

Negro Southern League Museum – Provided proofrolling/subgrade observation, soil testing, concrete, asphalt, unit masonry inspection and testing, structural steel inspection, and roof installation observation services. (2014–2015)

Wood Station – Provided concrete testing, asphalt testing, base testing, ail inspection, and qualified credential inspection. (2013–2014)

Housing Authority of Birmingham, Marks Village
Provided construction material testing of concrete, soil, and grout. Performed special inspections. (2015–2016)

Housing Authority of Birmingham, Elyton Village
Provided construction material testing of concrete, soil, and grout. Performed special inspections. (2015–2016)

Training & Certification

The Environmental Institute

Phase I Environmental Assessment Certification

Mold Inspector Certification

Asbestos Inspector

Abatement Supervisor

NIOSH 582

Abatement Designer

Stormwater Management Qualified Credentialed Inspector (Approved by ADEM)

GA Partnership for Transportation Quality Environmental Justice and Public Involvement Training

ACI Certified 2014

Radiological Safety

Roadway Technician

OCI Certified Since 2007

Hot Mix Asphalt Level I

JE Dunn (Columbus, GA) Columbus University – Construction material testing services for concrete.
City of Huntsville, Pin Oak Creek Trail – Subsurface exploration study on Pin Oak Creek Trail. (2014)

Environmental Consulting and Land Surveys

University of Alabama at Birmingham – Environmental Site Assessment (2012)
University of Alabama at Birmingham, Educational Foundation – Environmental Site Assessment (2012)
Barons Parkside Baseball Project – Environmental Phase I and II Assessment; Voluntary Cleanup Plan for ADEM; Notice of Intent to Remove Tank to ADEM; Ground Water Monitoring and Samples; Soil Testing, Perform Clearance; Managing Removal of manifest to landfill; Brownfield Related Due Diligence; Voluntary Property Assessment and Cleanup Implementation Report.
(2011– Current)
City of Birmingham, Tiger 12 CSX Rail Corridor – Sampling and soil management and clapping plan. (2012)

General Contractor

East Valley Pinson Recreation Center – Renovations and Accessibility Upgrades for East Valley Pinson Recreation Center. (5/12 – Current)
University of Alabama Birmingham, Birmingham, AL (2013) – General contractor for concrete sidewalk for the C-Store connecting with a campus dormitory.

Construction Management

Southern Research Institute, Birmingham, AL – Provided Quality Control Services for building construction. (2011)
Brookwood Women's Medical Center, Birmingham, AL – Provided quality quality control services for building construction. (2011)
VA Medical Center, Birmingham, AL – Provided quality control services. (2011 – Current)

EDUCATION

University of North Carolina, Chapel Hill,
BA in Political Science, 1998
Masters Degree in Regional Planning, 2000
Juris Doctorate, 2004

SLADE
ENVIRONMENTAL SERVICES | GENERAL CONTRACTING

Training & Certifications

Certified ACI Field Technician for Concrete Testing #01358048 3/20/21

Certified Asbestos Supervisor #3178

Certified Asbestos Inspector #4813

Defensive Flagging Certificate 2016

US DOT Hazmat Certification expiration April 4, 2019

Roadway Technician

Asphalt Level I

Jamaal Pumphrey, Environmental Scientist and Construction Material Testing Technician

BACKGROUND

Jamaal Pumphrey has served as a construction engineering inspector and qualified credential inspector. He holds certifications in ACI Concrete Field Testing Technician-Grade I, Flagger, Roadway Technician, CPR/First Aid Safety/Bloodborne Pathogens. He has two years of experience in providing services for airport, roadway, commercial, and municipal projects.

Mr. Pumphrey's has worked with Slade since 2015, and is an Environmental Technician. He brings Construction Engineering Inspector, Geotechnical, Subsurface Exploration, Construction Material Testing, and Project Management experience.

EXPERIENCE

Jefferson County Office of Community and Economic Development, City of Midfield, AL Recreation Center

Served as an environmental services consultant prime contractor for an environmental phase I assessment (2015) and ADA side walk assessment 2017.

Jefferson County Office of Community and Economic Development, City of Trafford, AL

Provided an Environmental Phase I Assessment. (2015)

First Baptist Church Woodlawn, Birmingham, AL

Provided an environmental phase I assessment and reconnaissance for underground tank. (2015)

Dynamic Civil Solutions, Birmingham, AL

Provided a cultural resource assessment consisting of a Phase I shovel test survey that conforms to the standards and guidelines of the Alabama Historical Commission. (2015)

Dynamic Civil Solution, Midfield, AL

Construction Engineering Inspector for two projects-Woodlawn Road Improvement and 1st Avenue North Project (10/17)

JBLM, US Army Corp of Engineer, Seattle, WA,

Pre-demolition survey for asbestos abatement. (2015)

Radford Army Ammunition Plant, US Army Corp of Engineers

Pre-demolition survey for asbestos abatement. (2015)

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ENVIRONMENTAL SERVICES | GENERAL CONTRACTING

Training & Certifications

ACI Certification

Nuclear Certification

Hazmat Certification

Soil Testing

Concrete Testing

Asphalt Testing

Evaluations

CPR/First Aid Safety/Bloodborne Pathogens

OSHA 30

Charles Adams, Jr.
Geotechnical Technician

BACKGROUND

Mr. Adams brings 15 years of experience in geotechnical and construction services. He has completed inspections on soil analysis, aggregate gradation tests, quality control tests on hot mix asphalt, and calculated pay-factors accordingly for major highway construction projects.

PROJECT EXPERIENCE

TCI-Link, Birmingham AL
Geotechnical and construction material testing services. (2017)

Health South of Montgomery, Montgomery, AL Generator pad geotechnical and construction material testing study. (2017)

Health South Valley of the Sun. Geotechnical and Construction Material Testing for generator pad. (2016)

Health South, Scottsdale, AZ.
Geotechnical and Construction Material Testing for generator pad. (2016)

Mt. Canaan Church Expansion, Birmingham, AL
Geotechnical and Construction Material Testing. (1/16-Current)

Doug Hollyhand Realty, Inc., Woodlawn Wood Station, Birmingham, AL
Geotechnical Engineering Service, Asphalt Testing, Base Testing, Qualified Credential Inspection, and Radon Testing. (2015)

Housing Authority of Birmingham District, Birmingham, AL
Geotechnical Report for Marks Village Building #20 and Elyton Village Building #20. (2015)

New Start Neighborhood, Birmingham, AL
Field work, drilling for two days, labor work, atterburgs, sieves moistures, proctor, logging classifications, senior review, geotechnical report.(2014)

City of Birmingham, Negro Southern League Museum, Birmingham, AL
Qualified credential inspection and geotechnical engineering services for construction testing, observation, and reporting. (2014)

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Training & Certifications

Asbestos in Buildings: Inspection and Assessment

QCI Certification

US D.O.T. Hazmat Certification

Paul Goldsmith
Geotechnical Technician

BACKGROUND

Mr. Goldsmith serves as a Geotechnical Technician as well as a technician for Construction Material Testing.

EXPERIENCE

University of Alabama at Birmingham, Birmingham, AL
Conducted an Environmental Assessment for the Occupational Health and Safety Environmental Site Assessment. (2012)

University of Alabama at Birmingham, Birmingham, AL
Conducted an Environmental Assessment for purchasing property. (2012)

TCI-Link
Geotechnical and Construction Material Testing (2017)

Health South of Montgomery, Montgomery, AL Generator pad geotechnical and construction material testing study. (2017)

Health South Valley of the Sun. Geotechnical and Construction Material Testing for generator pad. (2016)

Health South, Scottsdale, AZ. 205-283-0523. Geotechnical and Construction Material Testing for generator pad. (2016)

Mt. Canaan Church Expansion, Birmingham, AL
Geotechnical and Construction Material Testing. (1/16-Current)

Doug Hollyhand Realty, Inc., Woodlawn Wood Station, Birmingham, AL
Geotechnical Engineering Service, Asphalt Testing, Base Testing, Qualified Credential Inspection, and Radon Testing. (9/15)

Housing Authority of Birmingham District, Birmingham, AL
Geotechnical Report for Marks Village Building #20 and Elyton Village Building #20. (01/15)

New Start Neighborhood, Birmingham, AL
Field work, drilling for two days, labor work, atterburgs, sieves moistures, proctor, logging classifications, senior review, geotechnical report.(11/14)

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Training & Certifications

CPR/First Aid Safety 2016

Bloodborne Pathogens 2016

OSHA 10 2017

OSHA 30 2017

Defensive Flagging Certificate 2016

Marwan Mickens
Geotechnical/Environmental Technician

BACKGROUND

Marwan Mickens has served as a geotechnical/environmental technician for three years and holds certifications in OSHA 10, OSHA 30, Flagger, and CPR/First Aid Safety/Bloodborne Pathogens. His experience includes in commercial, airport, roadway, and municipal projects. He brings geotechnical, construction engineering inspector, subsurface exploration, construction material testing, and project management experience.

EXPERIENCE

TCI-Link
Geotechnical and Construction Material Testing (2/17)

Health South of Montgomery, Montgomery, AL Generator pad geotechnical and construction material testing study. (2017)

Health South Valley of the Sun. Geotechnical and Construction Material Testing for generator pad. (2016)

Mt. Canaan Church Expansion, Birmingham, AL
Geotechnical and Construction Material Testing. (1/16-Current)

Doug Hollyhand Realty, Inc., Woodlawn Wood Station, Birmingham, AL
Geotechnical Engineering Service, Asphalt Testing, Base Testing, Qualified Credential Inspection, and Radon Testing. (2015)

Housing Authority of Birmingham District, Birmingham, AL
Geotechnical Report for Marks Village Building #20 and Elyton Village Building #20. (2015)

New Start Neighborhood, Birmingham, AL
Field work, drilling for two days, labor work, atterburgs, sieves moistures, proctor, logging classifications, senior review, geotechnical report.(2014)

City of Birmingham, Birmingham, AL
Qualified credential inspection and geotechnical engineering services for construction testing, observation, and reporting for the Negro Southern League Museum. (11/14)

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Dakota Brodie
Engineering Intern

BACKGROUND

Mr. Brodie works as an engineering intern for SLADE serving as an assistance project manager. His responsibilities include writing technical reports for asbestos/lead testing, updating safety manuals, and communicating with field techs to verify incoming data/field reports.

EXPERIENCE

SLADE, LLC Engineering Intern (Summer 2017 – Present)

- Assistant project manager for multiple projects
- Wrote technical reports for asbestos/lead testing on residential housing complex
- Lead writer for updated safety manual
- Communicated with field techs to verify incoming data/field reports

U.S. Army Corps of Engineers Summer Intern, (Summer 2016)

- Mapped regional waterways using ARCgis
- Monitored location and time of dredging loads/disposals
- Met weekly with DQM team to discuss project updates/future opportunities
- Visited multiple dam sites/dredges with inspection crew

Maji:Hope Water Project Team Member, Tanzania (2010 - Present)*

- Take various teams to rural villages in Tanzania to work on drilling projects that provide clean water to the people in these areas
- Meet with native Tanzanian engineers and visited multiple project sites
- Discuss future projects with regional and community leaders

* *Have made 6 trips to Tanzania resulting in 14 wells completed and 7 more in progress*

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PATRICK RITCHIE, M.S., P.W.S.
Environmental Technician/Project Manager

EXPERT REPORTS AND REGULATORY RESPONSE REPORTS

Rodgers, John, Connelly, Helen R., Ritchie, Patrick, M. *Ecological Assessment of Wetland Communities in Bully Camp Oil and Gas Field;* February 2018.

Performed and co-authored an ecological assessment report of a saline to brackish coastal marsh for the purpose of litigation defense. The Site is an oil and gas field which has been operating for approximately 60 years. The assessment metrics included surface water parameters and living systems. Vegetation, fish, bird, and benthic macroinvertebrate communities were identified, observed, counted, and evaluated to determine the current functions and services provided to the wildlife population, the human population, and the watershed. Statistical analysis of population dynamics and index of biological integrity were considered when assessing impacts from oil and gas exploration and production activities.

Miller, Jonathan, Q., Connelly, Helen R., Ritchie, Patrick, M. *Management Option 1 (MO-1) Risk Evaluation/Corrective Action Program (RECAP) Groundwater Assessment*; June 19, 2017.

The report includes a LDNR RECAP evaluation of groundwater at a brine mining and storage facility. The groundwater assessment evaluated the 35-foot Groundwater Zone (31 feet to 38 feet below ground surface) in the vicinity of two brine storage ponds at a facility in Ascension Parish, Louisiana.
Groundwater has been monitored for chlorides for the last ten years, and the LDNR requested an assessment of current groundwater conditions at the Site. This report was in response to that request and concluded that there are no complete pathways of exposure to chlorides at the Site and recommended no further action at this time.

Adams, Gray W., Ritchie, Patrick, M. *Prospectus – Ballandock Mitigation Bank*; January 2017.

The Ballandock Mitigation Bank Prospectus includes a proposed freshwater diversion of the Mississippi River to restore, re-establish, and enhance the coastal wetlands of the client's property and provide compensatory mitigation credits for unavoidable, permitted impacts to "Waters of the United States" and coastal wetlands. I assisted in the technical feasibility of the plan, development of the project goals and

objectives, and the determination of current site conditions and compensatory mitigation credits.

Ritchie, Patrick. *Supplemental Fishing Report*; September 26, 2016.

The Supplemental Fishing Report includes data obtained to assess current fish assemblage biodiversity in a man-made lake created by a sinkhole containment system in a Cypress-Tupelo swamp. Statistical ecological metrics were used to evaluate biodiversity and abundance of the fish assemblage. Results of this supplemental investigation demonstrate the fish communities in the waters within the sinkhole containment system are typical native or known invasive species, and present at expected numbers for the water body surveyed based upon the methods of fishing.

Ritchie, Patrick, M. *Ecological Assessment Report*; June 10, 2016.

The Ecological Assessment Report appropriately focused on fish and vegetative communities as representative of the health and functioning of the ecosystem in the vicinity of an industrial accident. Field observations and literature review were used to evaluate the current ecological conditions of wetlands and fish assemblages. The results of the Ecological Assessment provide evidence based upon defined ecological metrics compared to independently produced datasets of similar ecological communities that the current wetland and fish communities are healthy and functioning properly.

Ritchie, Patrick M., Connelly, Helen R., Angle, David G. *Rapid Bioassessment of Streams Sampling Report – Hercules Site Vicinity.* December 17, 2015.

A Rapid Bioassessment is an evaluation of the condition of a waterbody using visual observations of habitat and physical characteristics, biological surveys and other direct measurements of the resident biota in surface waters. Field efforts included a physical characterization of streams, field water quality measurements, habitat assessment, and periphyton, benthic macroinvertebrate and fish sampling and collection. The report documented the procedures for assessment and sample collection and results.

Ritchie, Patrick M. *Blue Crab Population Health and Human Health Risk Assessment in a Mixed Natural and Man-made Habitat.* November 2015.

This Technical Paper was submitted to the Soil and Water Science Department of the University of Florida in partial fulfillment of the

requirements for the Degree of Master of Science. A blue crab, *Callinectes sapidus*, population in a mixed natural and man-made habitat of the White Lake watershed located in Vermilion Parish, Louisiana was evaluated for animal health and human consumption. Crab carapace width, length, weight, and sex were measured. Crabs were further evaluated for total and individual muscle, exoskeleton, hepatopancreas, other soft tissue weight. Water chemistry including temperature, electrical conductivity, pH and DO were measured at each crab sampling location. Blue crabs sold from markets along the Gulf Coast were also purchased and submitted for laboratory measurements of total and individual tissue weight. A laboratory study was conducted in the same man- made canals by the Louisiana Department of Health and Hospitals to evaluate the human health risk from total arsenic and barium exposure associated with consuming blue crabs.

Pisani, Michael E. and Ritchie, Patrick M. *Site Assessment Report – Minvielle Property.* April 15, 2011.

Performed a Louisiana Department of Environmental Quality (LDEQ) Risk Evaluation/Corrective Action Plan (RECAP) Management Option-1 (MO-1) evaluation of a former oil and gas field in response to a Louisiana Department of Natural Resources (LDNR) Office of Conservation Compliance Order. The RECAP MO-1 evaluation addressed constituents of concern (arsenic, barium, chlorides) in groundwater. The assessment included evaluation of site setting (location, current and future land use, topography, regional geology, habitat) review of historical operations on the property including former oil and gas exploration and production activities, soil assessment, soil stratigraphy and lithology, groundwater assessment, groundwater flow, and aquifer testing and classification. The LDNR Office of Conservation reviewed the Site Assessment Report, concurred with the conclusions of the report and determined that no further action (NFA) is deemed necessary at the site.