



CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

April 8, 2019

Wisconsin Department of Natural Resources

Attn: Mr. B.J. Leroy

2984 Shawano Avenue

Green Bay, WI 54313-6727



Subject:

STH 22/45/76
Town of Bear Creek
Waupaca County, WI

Mr. Leroy:

Enclosed is the proposal for geoprobe soil boring installation, sapling and reporting. A task cost spreadsheet with staff type and billing rate, statement of qualifications, and applicable staff resumes are attached.

Thank you for the opportunity to assist you with this project. Please contact with questions or comments at (715) 675-9784 or Adelforge@REIengineering.com.

Sincerely,
REI Engineering, Inc.

Andrew R. Delforge, P.G.
Senior Hydrogeologist



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4080 N. 20th Avenue Wausau, WI 54401
715-675-9784 REIengineering.com



REI

**CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING**

LIMITED SOIL AND GROUNDWATER INVESTIGATION PROPOSAL

**STH 22/45/76
TOWN OF BEAR CREEK
WAUPACA COUNTY, WI**



Submitted To:

B.J. Leroy
WDNR - NER
2984 Shawano Avenue
Green Bay, WI 54313
April 9, 2019

Prepared By:

REI Engineering, Inc.
4080 N 20th Avenue
Wausau, WI 54401
(715) 675-9784

**COMPREHENSIVE
SERVICES WITH
PRACTICAL
SOLUTIONS**



Why Choose REI?



CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Thank you for requesting a proposal from REI Engineering, Inc. (REI). We have enclosed a copy of REI's Professional Services Agreement. If the Agreement is acceptable, please sign and return to our office. We will begin our services upon receipt of the executed agreement and your authorization.

We offer comprehensive services with practical solutions. Client satisfaction is achieved through a

clear understanding of the regulatory process and applying it to your project.

At REI, your opinion matters. We contact every client to evaluate and improve our services. We listen to you and offer solutions according to your expectations.

The following statistics demonstrate our commitment to exceeding your expectations and are based on a 5 year average.

What are our clients saying?

"From the initial contact and continued direction...I have found REI to be an absolute asset to see the pace of my projections and projects to be fully completed on time. Very knowledgeable and professional."

Northcentral Technical College

"I can always count on REI to provide me the services they promise by the deadlines we (sometimes even unreasonably) set for them."

Ruder Ware

"REI does that little bit extra that makes projects go as smoothly as possible and they are very nice people."

Merrill Area Development

"REI has been an excellent organization to work with. They make it a pleasure to do business with them. As we at River Valley Bank would say REI is incredible."

River Valley Bank

"REI Continues to be a very reliable and capable business partner. They instill confidence, meet deadlines, and are just good people to do business with. From the person that answers the phone, to the various individuals engaged in the final outcome; professionalism, courtesy and service is outstanding."

Greenheck Fan Corporation

REIengineering.com



Would you hire REI again?

100%



Did REI meet your expectation on the quality of service?

99.6%



99.4%

Did REI keep you informed on project progress?



Did REI meet your deadlines?

99%

How would you rate REI out of 5 stars?



What REI Can Do For You

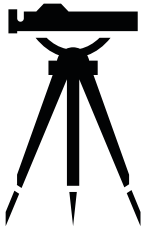
REI Engineering specializes in exceeding client expectations in civil engineering, surveying, environmental and safety consulting. Client satisfaction is achieved through a clear understanding of the regulatory

process and applying it to individual projects. Simply put - the vast number of repeat clients at REI indicate that we align our priorities with those of the client's to accomplish success.



CIVIL ENGINEERING DESIGN AND CONSTRUCTION

Unmatched project delivery supported by integrity and quality



LAND SURVEYING

Premier, accurate provider of surveying and land planning services, with commitment to efficient technology utilization and regulatory developments



ENVIRONMENTAL CONSULTING AND EMERGENCY RESPONSE

Dedicated and experienced professionals apply critical thinking to deliver cost effective solutions



SAFETY CONSULTING

Identifying economic solutions to comply with safety and regulatory compliance, implementing plans and executing training



Our Sister Company

Our sister company, Northwest Petroleum Service, Inc. has been installing and servicing complete fueling systems for over 45 years. NPS works closely with our customers in Wisconsin and Michigan's Upper Peninsula to choose the most efficient design for Aboveground, Underground, Point of Sale (POS), and EMV compliance.

INTRODUCTION

REI is pleased to submit a proposal to complete a limited soil and groundwater investigation on the Highway 76 right of way in the Town of Bear Creek, Waupaca County, WI. Based on the documents provided, the right of way is adjacent to a closed LUST site. Petroleum odors were observed during work in the right of way, and this scope of work is intended to quantify the residual contamination.

PROPOSED WORK SCOPE BASED ON APRIL 2019 BID DOCUMENT

Work Plan – REI will provide a brief work plan outlining methods and procedures for sample collection and an anticipated schedule.

Soil Sampling – REI will solicit a DOT permit for the installation of geoprobe soil borings in the Highway 76 right of way at the locations specified by the WDNR project manager. Geoprobos will be installed by Geiss Soil and Samples of Merrill, WI. Utilities will be located, and the Waupaca County Highway Department will be retained to provide traffic control.

Four (4) geoprobe soil borings will be installed to the water table, estimated at 3-8 feet below land surface (bls). Soil samples will be collected every two (2) feet and field screened with a RAE Plus Classic photoionization detector (PID) for the presence of organic vapor. One sample from each boring with the highest field screening will be submitted to Pace Analytical of Green Bay, WI for Petroleum Volatile Organic Compounds (PVOC) analysis. Remaining soil will be containerized in a DOT approved drum and transported to the Lincoln County Landfill biopile for treatment.

One (1) temporary well will be installed at the location specified using temporary one-inch casing and screen. One (1) groundwater sample will be collected using a peristaltic pump and disposable tubing and laboratory analyzed for PVOCs.

All boreholes will be abandoned immediately following sample collection.

Summary Report - REI will prepare a summary report including boring logs, tabulated soil and groundwater data for comparison to NR 720 and NR 140 standards, photographs, scaled site maps, observations and conclusions.

SCHEDULE

- May 2019 – DOT permit, geoprobe installation
- June 2019 – Summary Report

CONDITIONS

Should unanticipated conditions develop necessitating changes in the work scope, REI will notify you immediately. The cost will be based on the actual work completed in accordance with our current standard fee schedule. The client encourages REI to take all measures that are necessary to preserve and protect the safety of REI's personnel, the public, and/or the environment.



Professional Services Agreement

Proposed Services: Limited Soil and Groundwater Investigation
Site Name: STH 22/45/76, Town of Bear Creek, Waupaca County,
WI

Client: WDNR Attn: Mr. B.J. Leroy

Date: April 9, 2019

REI Project No.:

REI's Scope of Services on the project is limited to the Work Scope previously stated in the proposal document.

REI has relied on the following understanding in preparing the Work Scope and basis of payment: Bid documents provided by DNR

REI will provide the following deliverables: Summary Report

Services provided by REI will be reimbursed by the Client at the estimated specified fee listed below. The fee will be invoiced upon completion of services. The following breakdown is provided for information purposes.

Commodity Costs

Geoprobe	\$950.00
Soil Disposal	\$165.00
Laboratory (Soil and Groundwater)	\$138.00
Traffic Control	\$440.00

Consulting Costs

Job Prep, Field Time, Mileage and Equipment	\$2,241.00
Data Interpretation and Reporting	\$465.00
Estimated Project Total	\$4,399.00

**Bear Creek STH 22/45/76
Soil Borings**

Staff Type	Description	Units	Quantity	Unit Cost	Event Cost	Events	Total Cost (subs at 1.1%)	Subtotal
Commodity Services								
Geiss Soil & Samples	Geoprobe	foot	32	\$27.00	\$864.00	1	\$950.40	
Lincoln Co. Landfill	Soil Cuttings Disposal	Drums	1	\$150.00	\$150.00	1	\$165.00	
Pace Analytical	Soil Samples PVOC	each	4	\$25.00	\$100.00	1	\$110.00	
Pace Analytical	Groundwater Samples PVOC	each	1	\$25.00	\$25.00	1	\$27.50	
Waupaca County	Traffic Control	hr	2	\$200.00	\$400.00	1	\$440.00	
Total Commodity Services								\$1,692.90
Job Prep								
Senior Hydrogeologist	Work Plan	hr	2	\$114.00	\$228.00	1	\$228.00	
Senior Hydrogeologist	DOT permit	hr	2	\$114.00	\$228.00	1	\$228.00	
Field Activities								
Senior Hydrogeologist	Project Management/Job Prep	hr	2	\$114.00	\$228.00	1	\$228.00	
Senior Hydrogeologist	Geoprobe Installation	hr	4	\$114.00	\$456.00	1	\$456.00	
Travel	Travel Time	hr	2.5	\$78.00	\$195.00	1	\$195.00	
Waste Disposal								
Administrative	Invoicing	hr	1	\$61.00	\$61.00	1	\$61.00	
Senior Hydrogeologist	Profiling	hr	1	\$114.00	\$114.00	1	\$114.00	
Enviro Tech II	Waste Disposal	hr	1.5	\$83.00	\$124.50	1	\$124.50	
Travel (Env. Sci)	Trav Tm - LCLF	hr	1	\$78.00	\$78.00	1	\$78.00	
Mileage and Equipment								
192	Drums	Each	1	\$60.30	\$60.30	1	\$60.30	
	PID	day	1	\$100.00	\$100.00	1	\$100.00	
	Equipment Charge	day	1	\$250.00	\$250.00	1	\$250.00	
107	Mileage	mi	150	\$0.62	\$93.00	1	\$93.00	
107	Mileage (Waste Disposal)	mi	40	\$0.62	\$24.80	1	\$24.80	
Documentation and Reporting								
Senior Hydrogeologist	Boring Logs, geolocation	hr	1.5	\$114.00	\$171.00	1	\$171.00	
CAD Technician	Drafting	hr	2	\$86.00	\$172.00	1	\$172.00	
Admin	Report	hr	2	\$61.00	\$122.00	1	\$122.00	
Total Consulting								\$2,705.60
Total Consulting & Commodity								\$4,398.50



Andrew R. Delforge, P.G.

Senior Hydrogeologist



Education

B.S., Water Resources, Groundwater, University of Wisconsin – Stevens Point
Minor, Geology, University of Wisconsin – Stevens Point

Registration

Registered Professional Geologist, Wisconsin #PG-1175
Licensed Asbestos Inspector, Wisconsin #AIII19968
Registered PECFA Consultant, Wisconsin #243858
Registered Site Assessor, Wisconsin #243858
Registered Tank System Remover-Cleaner #243858
Certified Underground Storage Tank Professional, Michigan # 998

Summary of Qualifications

25 years of experience with an emphasis in Hydrogeologic investigations, tank removals emergency response, environmental assessments, remediation, redevelopment and project management.

Related Project Experience

Emergency Response Coordinator

Direct emergency resources to properly and effectively complete the cleanup of hazardous materials. This involves corresponding with local, state and governmental agencies and responsible parties to effectively communicate and successfully initiate the cleanup activities. As part of the follow up once the emergency has been eliminated, helps clients review existing or initiate emergency contingency plans to better prepare or prevent possible future emergencies.

Environmental Assessments (Phase I & II)

Responsible for conducting historical search, mapping, site reconnaissance, site investigation and site interpretation and characterization as it relates to potential and existing contamination.

Remediation

Analyze remedial alternatives for cost effective source removal. Solicit approval from regulatory agencies, arrange disposal profiling, documentation of remediation.

Property Redevelopment and Post Closure Modification

Identification and solutions for redevelopment pitfalls specific to environmental issues including new and historical contamination, dewatering, geotechnical, asbestos and demolition.

Project Management

Accountable for project management direction for large and small-scale projects. Responsibilities include commodity bidding, scheduling, implementing and directing field investigations, feasibility testing, documenting and interpreting data.



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Kenneth J. Lassa, P.S.

Senior Consultant/
Department Manager



Education B.S., Soil Science, University of Wisconsin – Stevens Point

**Registrations/
Certifications** Professional Soil Scientist (PS-84), Wisconsin
OSHA 40- Hour Hazardous Waste Site Worker
OSHA 10-hour General Industry Safety and Health

**Summary of
Qualifications** 32 years of experience as an environmental professional with an extensive background in client relations, proposal and work scope development, group presentations, environmental due diligence, brownfields, grant writing, environmental liability exemptions, emergency spill response coordination, project management. As a senior consultant and department manager - managing and leading a team of environmental professionals. Coaching and mentoring of younger professionals, team building. Encouraging collaboration and creativity in problem solving and exceeding expectations for our performance.

**Related
Project
Experience** **Environmental Due Diligence/Phase I Hazardous Material Assessments**
Extensive experience conducting environmental due diligence in accordance with ASTM 1527 and US EPA All Appropriate Inquiry (AAI). Procedure 21-35-5 in WisDOT FDM for real estate transactions in Wisconsin. Conduct Phase II Environmental Site Assessments in order to determine if properties are contaminated. Communicating with buyers, sellers and property representatives throughout the process on expedited schedules.

Project Management/Regulatory Liaison
Responsible for project management for numerous projects throughout Wisconsin. Coordination of subcontractors, bidding, scheduling, implementing and directing field investigations, scheduling personnel and resources, documenting and interpreting data, preparing reports, maintaining budgets and serving as a client/regulatory liaison for the project to achieve the goal of case closure.

Environmental Liability Exemption Processes
Guide lenders and local governmental units through environmental regulatory requirements to obtain environmental liability exemptions when taking property through foreclosure or tax delinquency. Work with private parties through the Voluntary Party Liability Exemption (VPLE) process to obtain certificate of completion. Work with impacted property owners for off-site environmental liability exemption.

Site Characterization/Remedial Actions
Extensive experience in soil classification, placement of soil borings, groundwater monitoring wells and vapor sampling locations to define degree and extent of contamination through sampling of soil, groundwater and vapor in accordance with WDNR regulations. Determine comprehensive remedial options for different sites based on site specific conditions such as soil type and depth to groundwater to demonstrate site cleanup to achieve site closure.

Emergency Spill Response
Responsible for coordinating, managing and performing cleanup activities resultant from petroleum and hazardous material releases. Coordination with responsible party, insurance company and their representatives, local emergency management personnel, state regulatory personnel.

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Matthew C. Michalski

Hydrogeologist/
Environmental Compliance Consultant



Education

B.S. in Geography, Earth Science Minor, University of Wisconsin – La Crosse
B.S. in Geology, Hydrogeology and Water Chemistry Emphasis, University of Wisconsin – Eau Claire
Hydrogeology Field Course, Western Michigan University

Certifications

40 Hour HAZWOPER Training – 29 CFR 1910.120/29 CFR 1926.65
8 Hour HAZWOPER Refresher – 29 CFR 1910.120/29 CFR 1926.65
Registered Tank-System Site Assessor, Wisconsin #468998

Summary of Qualifications

Five years of experience in environmental consulting primarily focused on hydrogeologic investigations, environmental monitoring and compliance, environmental assessments, tank removals, and emergency response. Experience includes work in the following areas:

Related Project Experience

Environmental Due Diligence/Phase I Hazardous Material Assessments

Experience conducting environmental due diligence in accordance with ASTM 1527 and US EPA All Appropriate Inquiry (AAI). Conduct Phase II Environmental Site Assessments to assess the current environmental condition of properties following the identification of recognized environmental conditions.

Drilling/Direct Push Boring Oversight

Inspected drilling operations for environmental sampling projects. Collected samples for chemical analysis. Provided oversight of direct push borings in order to define degree and extent of contamination at numerous sites in Wisconsin.

Monitoring Well and Piezometer Installation and Development

Responsible for selecting placement and depth along with installation inspection and development of wells according to Department of Natural Resources (DNR) regulations at numerous sites in Wisconsin.

Soil/Groundwater Sampling

Collected soil samples for laboratory analysis of various contaminants from split-spoons, direct push borings, and hand auger samples. Collected groundwater samples using multiple sampling techniques for field evaluation of chemistry parameters in addition to submittal for laboratory analysis. Implemented field tests for determination of petroleum, chloride and other impacted soils.

Laser Induced Fluorescence and Electrical Conductivity Survey Oversight and Interpretation

Provided oversight for direct push Laser Induced Fluorescence and Electrical Conductivity borings in order to define degree and extent of Light Non-Aqueous Phase Liquids (LNAPL). Interpretation of data to determine extent and thickness of LNAPL in subsurface and stratigraphic units containing LNAPL.

Interpretation and Documentation of Data

Responsible for interpreting and deciphering laboratory analytical data to aid in project progression. Mr. Michalski is fluent in managing excel spreadsheets.

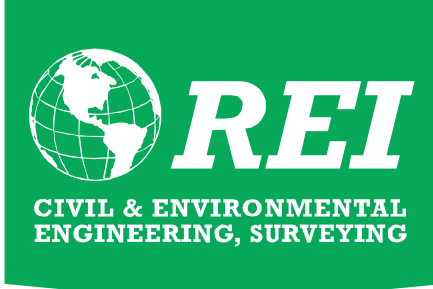
EPCRA Regulatory Compliance

Tier II Inventory Reporting and TRI Form R reporting. Clients include numerous industrial and healthcare clients.



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Ryan M. Resch

Hydrogeologist



Education

B.S. in Geology, University of Wisconsin - Madison
Environmental Studies Certificate, University of Wisconsin - Madison

Certifications

40 Hour HAZWOPER Training – 29 CFR 1910.120/29 CFR 1926.65
8 Hour HAZWOPER Refresher – 29 CFR 1910.120/29 CFR 1926.65
CPR/AED Certified – American Red Cross

Summary of Qualifications

Two years of experience in the environmental field primarily involving hazardous waste management, safety compliance, environmental monitoring, emergency spill response, and project management. Experience includes work in the following areas:

Related Project Experience

Project Management

Responsible for coordinating hazardous waste treatment and disposal plans and implementing effective health and safety plans. Design and direct large-scale collections of household hazardous waste products.

Emergency Spill Response

Responsible for performing and documenting cleanup activities resultant from petroleum and hazardous material releases. Corresponding with local, state, and governmental agencies as well as responsible parties to effectively communicate and successfully complete cleanup activities.

Excavation of Contaminated Soils

Responsible for determining limits of excavation, collecting soil samples for analysis, backfilling of excavated area, and site restoration.

Drilling/Direct Push Boring Oversight

Oversee drilling operations for environmental sampling projects and geotechnical evaluations. Provide oversight of direct push borings to define degree and extent of contamination.

Soil/Groundwater Sampling

Collect soil samples for laboratory analysis of various contaminants from split-spoons, direct push borings, and hand auger samples. Collect groundwater samples using multiple sampling techniques for laboratory analysis. Perform field screening to determine if chlorinated compounds and/or volatiles are present in environmental media.

Interpretation and Documentation of Data

Responsible for interpreting and deciphering laboratory analytical data to aid in project progression.



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