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Suite 200  
Middleton, Wisconsin  
53562-2573

■ Tel 608-831-6563  
Fax 608-831-6564

May 24, 2005

Mr. Joseph L. Witmer  
Mound City Bank  
25 East Pine Street  
Platteville, WI 53818



RE: Proposal - Dry Cleaner Site Investigation  
1509 Elm Street  
Boscobel, Wisconsin

Dear Mr. Witmer:

Resource Engineering Associates, Inc. (REA) is providing you with this proposal to conduct a site investigation at 1509 Elm Street in Boscobel, Wisconsin.

It is our understanding that the site is the source of tetrachloroethylene (PCE) contamination in the groundwater at a neighboring property.

#### Scope of Work

REA's scope of work for this project installation:

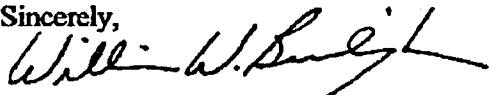
- A) Prepare a work plan for submittal to the Wisconsin Department of Natural Resources (WDNR) outlining the remedial investigation work to be performed.
- B) Coordinate and oversee the installation of six monitoring wells at the property.
- C) Survey and develop the monitoring wells after construction.
- D) Perform two rounds of groundwater sampling on a quarterly basis. Submit the samples for laboratory analysis of volatile organic compounds (VOCs).
- E) Upon receipt of the second round of groundwater samples prepare a report outlining the results of the investigation for submittal to WDNR. The report will include a discussion of the investigation procedures, the results of the investigation, and conclusions and recommendations. Additionally, the report will contain maps showing site characteristics and sampling locations, as well as tables with all of the laboratory analytical results.
- F) Assist with the DERF application and reimbursement submittals.

### Cost Estimate

REA's estimated cost to complete the work proposed above is \$23,500. This includes the cost of well installation, field work, laboratory analysis, report writing, and project management. All commodity costs will be bid, and the low bidder will be utilized in all cases. No bid will be awarded unless at least three bids have been received for that particular task. No work will be conducted outside the scope of this proposal unless first approved by your office.

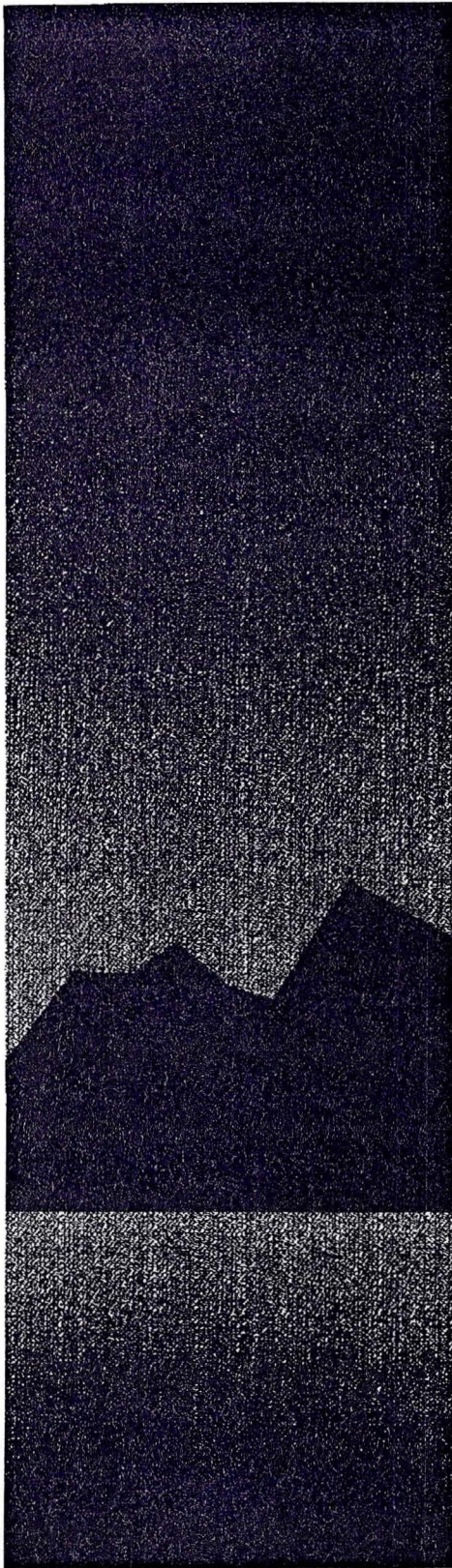
REA appreciates the opportunity to provide you with this proposal. Please feel free to call me if you have any questions or need additional information.

Sincerely,



William W. Buckingham, P.E.  
Senior Engineer

enc.



## STATEMENT OF QUALIFICATIONS

**REA** RESOURCE  
ENGINEERING  
ASSOCIATES, INC.

8505 University Green  
Suite 200  
Middleton, WI 53562-2573

■ Phone 608-831-6563  
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## **Company Overview**

Since 1987, Resource Engineering Associates, Inc. (REA) has been providing clients with quality environmental and scientific consulting services throughout Wisconsin and the Midwest. Our success has been based on our ability to work as a partner with, or extension of, our clients' staff, allowing us to be more responsive to their needs. We understand the growing demand for cost effective and value added solutions and will work closely with you to accommodate your budget and schedule. REA prides itself on:

### **Personal Attention**

We believe in providing a "single point of contact" for each of our clients. Regardless of how many projects you are pursuing, your REA representative will be responsible for reporting on all of your activities. If you have a question, you will know who to call.

### **Innovative Solutions**

Our definition of innovation is interwoven with the term "cost effective." We start by listening to you and then customize our services to meet your needs. Our staff is committed to staying on top of changing regulations, and has years of experience negotiating and working with regulatory agencies.

### **Efficient Planning**

Alternatives are evaluated with you on a continuing basis, along with the status of your budget and schedule. A quality assurance and quality control plan are a part of every project. By understanding the issues up front, we avoid surprises down the road.

### **Experienced Personnel**

Our experienced staff is actively involved in your project and is readily available to assist as questions arise. Our staff consists of registered engineers and hydrogeologists, scientists, CAD operators, and field technicians.

Please take a moment to review our service areas and consider the benefits of working with REA. For more information, call us at (808)831-6563 and ask to speak to your representative or any of the following staff:

Bob Pofahl, P.E. - President

Bill Buckingham, P.E. - Senior Engineer

John Milligan, P.E. - Civil and Environmental Engineer

Bill Buckingham, Jr - Hydrogeologist

Sean Barry - Senior Technician

Iris Westphal - Administrative Assistant

## **Service Areas**

REA typically services developers, agribusinesses, industries, municipalities, contractors, attorneys, and financial and insurance institutions. In addition to our highly experienced staff, we have developed strategic alliances with key subcontractors to provide a range of engineering, construction, and analytical laboratory services. We are able to provide service from initial site assessment through implementation, start-up, and continued operation and maintenance. Our primary service areas include:

### **Environmental & Operational Assessments**

- Environmental site assessments (ESAs), Phase I & II, for financing or property transfer closings.
- Compliance assessments for internal management decisions.

### **Property Assessment & Remediation**

- Remedial investigation plans for regulatory approval.
- Soil and groundwater sampling to define the extent of contamination from spills and tank releases.
- Hydrogeologic and subsurface drilling studies to evaluate groundwater and aquifer flow conditions.
- Remedial action system design, specifications, and monitoring including: excavation and disposal, biodegradation, vapor extraction, landspreading, thermal treatment, and product removal.

### **Property Redevelopment**

- Brownfield environmental assessments and regulatory agreements.
- Facility decommissioning, demolition, and site grading plans.

### **Waste Management**

- Agricultural and food processing by-product/waste storage and handling.
- Solid and hazardous waste handling and waste reduction assessments.
- Landfill design operations, closure and final use planning.
- Methane gas monitoring, collection, and energy recovery systems.

### **Water Resources**

- Stormwater, drainage, and erosion control studies.
- Discharge water monitoring and NPDES permitting.
- Water quality monitoring and best management practices.

## **Project Experience**

### **Environmental & Operational Assessment**

#### **Kirsh Foundry**

Kirsh Foundry required an operations and property environmental assessment to secure loans when planning expansion of its automated casting operations. Concrete work needed to start so that winter weather did not delay construction. REA performed an environmental assessment followed by a Phase II assessment including soil and groundwater sampling to screen the site for evidence of petroleum and heavy metal residues. The work was performed on time and on budget, and the expansion schedule was met.

#### **Lincoln Trails Farm Service Company**

The client planned to purchase and operate three agri-chemical facilities for the coming spring season. Phase I and Phase II environmental assessments were performed to identify possible environmental concerns. Petroleum and agri-chemical releases were identified and the sites were remediated to facilitate the property transfers.

#### **Anchor Bank**

Foreclosure of undeveloped land in an urban area was being considered, but known regional groundwater contamination and past agri-chemical use on the property were a concern because of environmental remediation costs and potential impact on planned development. REA concurrently performed a Phase I and Phase II evaluation to provide information to guide the financial decision. The site has since been sold and developed for residential use.

## **PROJECT EXPERIENCE**

### **Property Assessment and Remediation**

#### **R & L Supply Company**

R&L Supply Company purchased abandoned gasoline stations in rural communities for redevelopment to modern convenience stores. The sites required remediation before redevelopment could occur. REA investigated soil and groundwater for petroleum impact using a Geoprobe and truck-mounted soil auger to collect soil and water samples and to install groundwater monitoring wells to provide information to develop a remediation plan. Remediation consisting of soil and bedrock excavation and thermal treatment was approved by WDNR. Excavation was initiated upon regulatory approval, the site was remediated by excavation, and closure was granted by WDNR. New fuel tanks were installed and the convenience stores were constructed in coordination with site remediation and final grading plans prepared by REA.

#### **Former Fueling and Maintenance Facility**

Releases from abandoned fuel and waste oil tanks from a commercial truck fueling and repair facility resulted in fuel and oil product floating on the groundwater and absorbed in soils adjacent to and below the building basement walls. REA used hand tools to collect soil and groundwater samples in the limited available space. A remediation well was installed to collect product and to confine migration of contaminated groundwater. Horizontal perforated pipes were installed and connected to a vacuum pump to extract fuel vapors and aerate the soil to enhance biodegradation. The majority of the fuel has been removed from the soil and groundwater, migration of contaminants from the site has been controlled, and biodegradation enhanced with the aeration system is progressing. Site operations have been able to continue and the site is moving toward closure.

#### **Convenience Store**

Fuel residues were found when upgrading tanks and piping at a convenience store. REA was contacted to perform a site investigation and to develop a remedial action plan after the system had been upgraded. Soil boring information identified a gasoline release in the fuel dispenser area which had migrated into bedrock. REA designed a vapor extraction system with a catalytic thermal oxidizer to reduce air emissions to permit the vapor extraction system to operate continuously. The system is operating effectively without disruption to the business.

#### **Adams County Cooperative**

Liquid herbicides and fertilizers were spilled along a county highway from a trailer overrun. REA quickly mobilized to the spill site and identified the contaminated soils using field screening methods along with laboratory confirmation. Contaminated soils were excavated and stockpiled for landspreading, the area was back-filled and revegetated, and site closure was issued.

## **Project Experience**

### **Property Redevelopment**

#### **Ideal Vault Company**

An abandoned manufacturing site located adjacent to a desirable retail area was bypassed for development because of soil and groundwater contamination. Site improvement would not be practical if site clean-up requirements were extensive. REA screened for on-site contaminant sources starting with a Phase I environmental evaluation, expanded the research with soil and groundwater sampling, then prepared hydrogeologic data to show that the primary contaminant sources originated off-site. A phased approach was used to develop strategies based on a refined information base. A Chapter 453 limitation of liability has been issued by WDNR, based on implementation of an agreed level of remediation. Redevelopment into income-producing property is planned with significant benefit to the community.

#### **Capital Gears**

An abandoned machine tooling building was no longer of service for manufacturing, but represented a desirable expansion area for an adjacent college. The college could not justify investing funds without knowledge of likely demolition and potential soil remediation costs. REA conducted soil and groundwater sampling to identify clean-up areas, prepared demolition specifications, and negotiated clean-up requirements with the regulatory agency. A limitation of liability has been issued to the college for the level of remediation performed. The site has been redeveloped into staff parking and recreational fields.

#### **State Street Associates**

Petroleum contamination from abandoned underground storage tanks was found during redevelopment of a parking lot. REA prepared an interim action plan for immediate site clean-up to keep the project on schedule. Contaminated soil was excavated from the site and was stockpiled offsite for disposal at a later time. A grading plan was prepared and the site has been backfilled and asphalt paved to complete the parking lot.



## **Project Experience**

### **Waste Management**

#### **Dean Foods Vegetable Company**

Waste water lagoons no longer needed for vegetable processing waste and storm water runoff were taken out of service. REA prepared abandonment plans including waste sampling and characterization, waste land application rates, grading plans, and revegetation and erosion control plans. Waste was used beneficially as a soil amendment. The sites are vegetated for wildlife habitat.

#### **Abandoned Commercial Property**

Sumps, barrels, and tanks containing unknown waste products from an automotive repair shop and furniture refinishing business were abandoned in a building repossessed by a bank. REA sampled and characterized the wastes for disposal. The wastes included petroleum products, chlorinated solvents, and heavy metals. The wastes were removed and disposed of as a beneficial fuel source at a cement kiln.

#### **Metropolitan Refuse District**

After landfill closure, final use is planned as a park. REA teamed with a planner to develop a park master plan including soccer, baseball, and softball fields and hiking paths. Considerations for future settlement, groundwater monitoring, landfill gas monitoring, and gas collection and treatment were addressed to limit future park disruption and maintenance costs.

#### **Hahn By-Products Storage Structure**

Wastes from food processing facilities are accumulated, stored, and blended at the Hahn facility for use as cattle feed. REA designed a 120-by 150-foot concrete containment structure to facilitate waste delivery, by-product loadout, and storm water collection, and a concrete holding tank to store runoff for land application.

## **Project Experience**

### **Water Resources**

#### **Portage County Drainage Board**

The public drainage system passes through land owned by numerous property owners including residential and environmentally sensitive areas. REA prepared drawings and specifications in the Construction Specification Institute (CSI) format to define tree removal limits, grade stabilization work, and vegetation establishment methods to stabilize the ditch system. Contract documents were prepared to define contractor responsibilities and special requirements. A critical part of the project requirements were to present the plans at public meetings, mark the proposed work areas, and keep landowners apprised of the proposed work.

#### **Green Lake County**

Green Lake County is planning a sediment control and wildlife impoundment. REA prepared a floodplain analysis to determine a hazard classification for design requirements and permitting. The floodplain analysis included the use of several hydraulic and hydrologic models including TR20, DAMBRK, and WSP-2. Experience with numerous models and hydraulic evaluation methods were necessary to incorporate the various pieces of data into a comprehensive finding.

#### **County Drainage District**

A county drainage district and a landowner disputed operational procedures for drains passing through the landowner's farm. The District Court appointed REA to provide technical support for preparation of findings. REA prepared computer models based on DRAINMOD and WSP2 to predict channel and field water levels using historical rainfall data. Channel cross-section and profile information was prepared by a survey, and soils data was determined by in-field measurements. The results were incorporated into the court's findings and conclusions.

#### **FS Cooperative**

Stormwater runoff from a large paved surface where bulk chemicals were handled was a water quality concern. The runoff was causing erosion and potential nutrient and chemical degradation of water. REA designed clay-lined stormwater runoff basins including one with a sand filtration bed to retain sediment and a pipe drop discharge to control channel erosion. The stormwater system was an efficient design to address the erosion and water quality issues.

#### **County Drainage District**

Water Control structures consisting of culverts and a rock-lined emergency overspill were planned to control erosion and the ditch water level. REA performed a hydrology study to determine runoff rates for a 100- and 10-year frequency storm to calculate the culvert and emergency spillway capacity. Permits were issued by WDNR for construction of the structures.

## Professional Team Overview

### ■ Robert Pofahl, P.E.

Mr. Pofahl is a professional registered engineer in Wisconsin, Illinois, and Minnesota. He has over 25 years of environmental engineering experience, and holds a B.S. and M.S. in Engineering from the University of Wisconsin-Madison. Mr. Pofahl's focus is on engineering aspects of environmental compliance, waste disposal, environmental remediation, and land development, with consideration of regulatory and statutory requirements and procedures. Responsibilities are for overall company management and establishing new services to meet changing business needs.

### ■ William W. Buckingham, P.E.

Mr. Buckingham holds a B.S. in Engineering from the University of Colorado, Denver, and a M.S. in Engineering Management from the Air Force Institute of Technology, and has extensive experience as an environmental engineer for the U.S. Air Force. His focus is on environmental remediation system design and evaluation including equipment selection and performance monitoring. At REA, Mr. Buckingham is responsible for engineering services. Services are generally related to LUST and chemical spill remediation, waste management systems, and environmental compliance. He is a professional registered engineer in Wisconsin.

### ■ John E. Milligan, P.E.

Mr. Milligan has over 34 years of experience in water resource planning with emphasis on hydraulic and hydrologic studies. He holds a B.S. degree in Engineering from Michigan State University and is a professional registered engineer in Wisconsin. As a hydraulic engineer for the USDA-SCS in Madison, Wisconsin, Mr. Milligan has developed a good understanding of federal and state water resource and environmental agency methodology. His focus is on water resource management issues including surface water, erosion, and water quality control. At REA, he is responsible for surface water investigations and assists with environmental sampling and remediation equipment operation and monitoring.

### ■ William R. Buckingham

Mr. Buckingham is a certified hydrogeologist (NR 700), and holds a B.S. in Geology and Geophysics from the University of Wisconsin-Madison. At REA, Mr. Buckingham is responsible for geologic and hydrogeologic services that are generally related to environmental site assessment and remediation investigations. Soil and groundwater exploration plans, and collection and evaluation of soil, rock and groundwater samples from drilling operations for interpretation of geologic and aquifer characteristics are also included in his responsibilities.

### ■ Sean K. Barry

Mr. Barry has over 10 years of environmental management experience and holds an Associate of Science degree in Civil Engineering Technology from Madison Area Technical College. He is certified as a UST tank removal site assessor, and has participated in several UW Extension engineering waste management workshops. His focus is on environmental sampling and graphic presentation of data, site features, and engineering remediation plans. At REA, Mr. Barry is responsible for graphics and CAD services including construction and earthwork layout and volume calculations, technical support and field sampling services. He also performs environmental site investigations and prepares summary reports.

### REFERENCES

To assist you in your evaluation of REA's services to our clients, please feel free to contact the following references who are familiar with our services:

- o Mr. Tom Hubel  
Hubel Motel  
Rt 2 St Hy 60  
Boscobel, WI 53805  
(608) 375-4277
- o Mr. Dave Wartenweiler  
Director of Public Works  
City of Evansville  
150 Exchange Street  
Evansville, WI 53536  
(608) 882-2270
- o Mr. Mark Below  
Director of Public Works  
Village of Oregon  
Village Hall, 117 Spring Street  
Oregon, WI 53575  
(608) 835-6290
- o Mr. H. Dale Peterson  
Stroud, Willink & Howard, LLC  
25 West Main Street  
Madison, WI 53701-2236  
(608) 257-2281
- o Mr. Frank Sutherland  
Lathrop & Clark  
740 Regent Street, Suite 400  
Madison, WI 53701-1507  
(608) 257-7766
- o Mr. Robert Tramberg  
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(608) 250-9126
- o Mr. Ken Thompson  
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(608) 836-7261
- o Mr. Tom Amon  
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