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# Le Sueur County, MN

Tuesday, July 1, 2014

Board Meeting

## Item 6

**10:05 Darrell Pettis, County Administrator / County Engineer**

*RE: Action on 2013 Unimin Annual Reports and Bonding Requirements*

*RE: Phase II Proposal for Weaver Property*

*RE: Flood Damage*

*RE: Other*

Staff Contact:



CONSULTANTS  
• ENVIRONMENTAL  
• GEOTECHNICAL  
• MATERIALS  
• FORENSICS

June 24, 2014

Le Sueur County  
88 S Park St  
Le Center MN 56057

Attn: Darrell Pettis  
[dpettis@co.le-sueur.mn.us](mailto:dpettis@co.le-sueur.mn.us)

RE: Phase II Environmental Site Assessment Proposal  
Weaver Property  
XXX 1<sup>st</sup> St S, Waterville, Le Sueur Co, MN 56096  
AET Proposal No. 03-05212.2

Dear Mr Pettis:

American Engineering Testing (AET) is pleased to offer services to Le Sueur County for conducting a Phase II Environmental Site Assessment (ESA) at the above-referenced site, hereafter referred to as the Site. This proposal describes the scope of services, schedule, fees, and other information regarding our services.

### **Project Information**

The site had been occupied by rail lines from sometime before 1894 until sometime before 1998 and a bulk oil station from sometime before 1937 until sometime before 2008. It has been vacant land since then.

AET previously performed a Phase I ESA (AET Project No. 03-05212, report dated June 23, 2014) on the Site and identified the following recognized environmental conditions (RECs):

- Potential soil and groundwater contamination from the historic presence of trains and their emissions, and
- Potential soil and groundwater contamination from the historic presence of bulk oil tanks.

### **Purpose**

The purpose of this Phase II ESA scope of services is to determine whether subsurface soils and/or groundwater have been environmentally impacted by former bulk oil facility and rail line.

### **Scope of Services**

In order to achieve the purpose of this service, AET will perform the following scope of services:

- Advance five (5) push-probe soil borings on the Site to the depth of groundwater (estimated between 10 and 15' below grade).

550 Cleveland Avenue North | St. Paul, MN 55114  
Phone 651-659-9001 | Toll Free 800-972-6364 | Fax 651-659-1379 | [www.amengtest.com](http://www.amengtest.com) | AA/EEO  
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- Field screen soil at about 2' intervals with a photoionization detector (PID) for the presence of organic vapors.
- Collect zero to one soil sample from each boring for chemical analysis for volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH) as diesel range organics (DRO), TPH as gasoline range organics (GRO), polychlorinated biphenyls (PCBs), polynuclear aromatic hydrocarbons (PAHs), and/or heavy metals.
- Collect 0-3 groundwater samples for chemical analysis for VOCs, GRO, DRO, and/or heavy metals.
- Upon completion of the fieldwork and receipt of analytical results, prepare a written report that summarizes the work and gives our conclusions, opinions, and recommendations. Oral results will be provided as they are available. The report will include the boring logs, methodologies used, a sketch showing the soil boring and/or sampling locations, and the results of analytical testing.

### **Limitations**

Contamination may exist outside the locations of the planned soil borings and would not be discovered by this investigation.

### **Remarks**

As the borings from which we collect groundwater samples for chemical analysis are considered temporary monitor wells, we will need to obtain a permit from the Minnesota Department of Health (MDH) prior to collecting the groundwater samples. Upon completion of collecting groundwater samples, the borings will be sealed in accordance with Well Code enforced by the MDH.

### **Performance Schedule**

Based on current schedule, we are available to perform the field screening and sample collection within 3 weeks. Fieldwork is expected to be complete within one day. Results of the screening and observations of the recovered samples will be available at the completion of fieldwork. Upon completion of fieldwork, samples will be submitted for laboratory analysis. Normal laboratory turn-around time is approximately two weeks with completion of the report within one to two weeks after receipt of the laboratory results.

### **Conditions**

The attached Service Agreement and Subsurface Boring Supplement apply to this project.

### **Fees**

Our fees for services will be charged on a time and materials basis in accordance with our current

Le Sueur County  
AET Proposal No. 03-05212.2  
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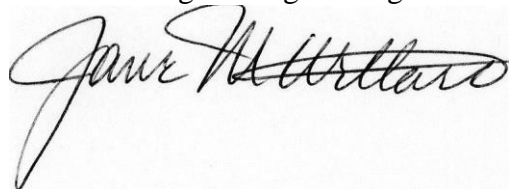
schedule of fees, which is attached. For the Phase II ESA scope of services described above, the cost will not exceed \$8500.00 without prior written approval. We will sample the rail line area first. If we encounter petroleum in the bulk storage facility area, we will cease sampling as the Site will then require a Petrofund bid Limited Site Investigation or Remedial Investigation. If we do not encounter evidence of diesel range organics in either area, we will not analyze for PAHs, PCBs, or heavy metals.

### **Acceptance**

Please indicate your acceptance of this proposal and authorization to proceed by signing, dating and returning one copy of this proposal to us.

American Engineering Testing appreciates the opportunity to provide this service for you and looks forward to working with you on this project. If you have any questions, or need additional information, please contact me.

Sincerely,  
American Engineering Testing



Jane M Willard, PG, CPG  
Senior Geologist

Phone: (651) 603-2236  
e-mail: [jwillard@amengtest.com](mailto:jwillard@amengtest.com)

Attachments: Service Agreement  
Subsurface Boring Supplement  
2014 Environmental Fee Schedule

#### **PROPOSAL ACCEPTANCE**

Signature	_____	Date	_____
Typed/Printed Name	_____		
Company	_____		

**SECTION 1 - RESPONSIBILITIES**

**1.1** - The party to whom the proposal/contract is addressed is considered the Client of American Engineering Testing, Inc. (AET). The terms and conditions stated are binding, upon acceptance, on the Client, its successors, assignees, joint ventures and third-party beneficiaries. **Verbal proposal acceptance or authorizing purchase orders from the Client are considered formal acceptance of AET's terms and conditions. By signing the proposal or verbally authorizing the services, the authorizing party attests that they have the authority to legally bind the Client to agreement.**

**1.2** - Prior to AET performing services, Client will provide AET with all information that may affect the cost, progress, safety and performance of the services. This includes, but is not limited to, information on proposed and existing construction, all pertinent sections of contracts between Client and property owner, site safety plans or other documents which may control or affect AET's services. If new information becomes available during AET's services, Client will provide such information to AET in a timely manner. Failure of client to timely notify AET of changes to the project including, but not limited to, location, elevation, loading, or configuration of the structure or improvement will constitute a release of any liability of AET. Client will provide a representative for timely answers to project-related questions by AET.

**1.3** - Services performed by AET will not relieve other persons of their responsibilities according to the contract documents or specifications, and AET will not be held responsible for work or omissions by Client or other persons. AET does not perform construction management, general contracting or surveying services and our involvement with the project does not constitute any assumption of those responsibilities. AET will not be responsible for directing or supervising the work of others, unless specifically authorized and agreed to in writing.

**1.4** - Services performed by AET often include sampling at specific locations. Inherent with such sampling is variation of conditions between sampling locations. Client recognizes this uncertainty and the associated risk, and acknowledges that opinions developed by AET, based on samples so taken, are qualified to that extent.

**1.5** - AET is not responsible for interpretations or modifications of AET's recommendations by other persons.

**1.6** - Should changed conditions be alleged, Client agrees to notify AET before evidence of alleged change is no longer accessible for evaluation.

**1.7** - AET reserves the right to charge for time to negotiate new terms and conditions from those portrayed in our proposal or should the Client require the use of their contract format. If mutually acceptable terms cannot be established, AET shall have the right to withdraw their proposal without any liability to the Client, Owner or other parties and assigns associated with the project. If Client requests use of their contract format after the services have already been authorized, AET will be compensated for services rendered prior to approval of the Client's contract by both parties according to the AET Terms and Conditions.

**1.8** - The AET proposal accompanying these terms and conditions is valid for sixty (60) days after the proposal issuance date to the Client. If Client authorizes the services after the expiration date, AET reserves the right to review and revise the proposal as necessary.

**SECTION 2 - SITE ACCESS, RESTORATION AND UTILITIES**

**2.1** - Client will furnish AET safe and legal site access.

**2.2** - It is understood by Client that in the normal course of its services AET may unavoidably alter existing site conditions or affect the environment in the area being studied. AET will take reasonable precautions to minimize alterations to the site or existing materials. Restoration of the site is the responsibility of the Client.

**2.3** - If AET is required to locate public or private underground utilities or subsurface structures ("hidden features") in its efforts to conform to reasonable standards of care, AET is entitled to rely on the location information provided by locating vendors. Client shall provide AET with any information available or reasonably obtainable to help prevent our services from encountering such hidden features. AET will not accept liability for encounters with hidden features.

**SECTION 3 - SAFETY**

**3.1** - Client shall inform AET of any known or suspected hazardous materials or unsafe conditions at the site. If, during the course of AET's services, such materials or conditions are discovered, AET reserves the right to take measures to protect AET personnel and equipment or to immediately terminate services. Client shall be responsible for payment of such additional protection costs.

**3.2** - AET shall only be responsible for safety of AET employees at the site. The Client or other persons shall be responsible for the safety of all other persons at the site.

**SECTION 4 - SAMPLES**

**4.1** - Client is responsible for informing AET of any known or suspected hazardous materials prior to submittal to AET. All samples obtained by or submitted to AET remain the property of the Client during and after the services. Any known or suspected hazardous material samples will be returned to the Client at AET's discretion.

**4.2** - Non-hazardous samples will be held for 30 days and then discarded unless, within 30 days of the report date, the Client provides a written request that AET store or ship the samples, at the Client's expense.

**SECTION 5 - PROJECT RECORDS**

The original project records prepared by AET will remain the property of AET. AET shall retain these original records for a period of three years following submission of the report, during which period the project records can be made available to Client at AET's office at reasonable times.

**SECTION 6 - STANDARD OF CARE**

AET performs its services consistent with the level of care and skill normally performed by other firms in the profession at the time of this service and in this geographic area, under similar budgetary constraints.

**SECTION 7 - INSURANCE**

AET maintains Worker's Compensation, Comprehensive General Liability, Automobile Liability and Professional Liability insurance, as described below. Upon request, prior to commencing the Services, AET can furnish Client with Certificates of Insurance evidencing that the insurance is in effect and in full force.

**7.1** - Commercial General Liability insurance will include coverage for Products/Completed Operations (extending two (2) years after final acceptance of the Project by Owner or such longer period as the Contract Documents may require), Broad Form Property Damage including Completed Operations, Personal Injury, and Blanket Contractual Liability insurance applicable to AET's indemnity obligations under this Agreement.

**7.2** - Automobile Liability insurance shall include coverage for all owned, hired and non-owned automobiles.

**7.3** - Professional Liability Insurance is written on a claims-made basis and coverage will be maintained for two years after final acceptance of the Project by Owner or such longer period as the Contract Documents may require. Renewal policies during this period shall maintain the same retroactive date.

**7.4** - AET can, if requested by client and permitted by AET's insurer, endorse its Commercial General Liability (including Products/Completed Operations coverage) to add Client and Owner as an "additional insured" with respect to liability arising out of the Services performed for Client or Owner by AET. Such insurance afforded to Client and Owner as an additional insured under AET's policies shall be primary insurance and not contributory with, any insurance purchased or maintained by Client or Owner.

**7.5** - AET will maintain in effect all insurance coverage required by this Agreement at its sole expense, provided such insurance is reasonably available, and with insurance carriers licensed to do business in the state in which the Project is located and having a current A.M. Best rating of no less than A minus (A-).

**7.6** - AET reserves the right to charge Client for additional coverage, coverage limits or policy modification including waiver of subrogation and other project specific requirements not known at the time of our proposal, subject to approval by AET's insurance providers.

**SECTION 8 - DELAYS**

If delays to AET's services are caused by Client or Owner, work of others, strikes, natural causes, weather, or other items beyond AET's control, a reasonable time extension for performance of work shall be granted, and AET shall receive an equitable fee adjustment.

**SECTION 9 - PAYMENT, INTEREST AND BREACH**

**9.1** - Invoices are due on receipt. Client will inform AET of invoice questions or disagreements within 15 days of invoice date; unless so informed, invoices are deemed correct. In any case, Client shall pay for services of AET within 30 days of invoice.

**9.2** - Client agrees to pay interest on unpaid invoice balances at a rate of 1.5% per month, or the maximum allowed by law, whichever is less, beginning 30 days after invoice date.

**9.3** - If any invoice remains unpaid for 60 days, such non-payment shall be a material breach of this agreement. As a result of such material breach, AET may, at its sole option, terminate all duties to the Client or other persons, without liability as well as withhold any and all data from Client until such invoice payments are restored to a current status.

**9.4** - Client will pay all AET collection expenses and attorney fees relating to past due fees which the Client owes under this agreement.

**SECTION 10 - MEDIATION**

**10.1** - Except for enforcement of AET's rights to payment for services rendered or to assert and/or enforce its lien rights, including without limitation assertion and enforcement of mechanic's lien rights and foreclosure of the same, Client and AET agree that any claim, dispute or other matter in question arising out of or related to this Agreement shall be subject to mediation as a condition precedent to arbitration or the institution of legal or equitable proceedings by either party; provided however that if either party should fail to respond to a request for mediation within 60 days after the request, this requirement for mediation as a condition precedent to arbitration or the institution of legal or equitable proceedings shall be of no force and effect.

**10.2** - Unless Client and AET mutually agree otherwise, mediation shall be in accordance with the Construction Industry Mediation Rules of the American Arbitration Association. Request for mediation shall be in writing and the parties shall share the mediator's fee and any filing fees equally. The mediator shall be acceptable to both parties and shall have experience in commercial construction matters.

**SECTION 11 - LITIGATION REIMBURSEMENT**

Payment of AET costs for Client lawsuits against AET which are dismissed or are judged substantially in AET's favor will be the Client's responsibility. Applicable costs include, but are not limited to, attorney and expert witness fees, court costs, and AET costs.

**SECTION 12 - MUTUAL INDEMNIFICATION**

**12.1** - AET agrees to indemnify Client from and against liability arising out of AET's negligent performance of the services, subject to Section 13 and any other limitations, other indemnifications or other provisions Client and AET have agreed to in writing.

**12.2** - Client agrees to indemnify AET from and against liability arising from the negligent conduct of the Client, Owner, Client's Contractors/Subcontractors or other third parties, subject to any limitations, other indemnifications or other provisions Client and AET have agreed to in writing.

**12.3** - If Client has indemnity agreement with other persons, the Client shall include AET as a beneficiary.

**12.4** - AET's indemnification to the Client is limited solely to losses or damages caused by its failure to meet the standard of care and only to the extent of its negligence

**12.5** - AET will not accept any obligation to indemnify Client other than to meet the standard of care. If a court of competent jurisdiction rules that indemnity is implied or if required by law, AET's obligation for the costs of indemnity is only to the extent due to AET's negligent acts, errors or omissions.

**SECTION 13 - LIMITATION OF LIABILITY**

Client agrees to limit AET's liability to Client arising from AET's negligent acts, errors or omissions, such that **the total liability of AET shall not exceed \$25,000.**

**SECTION 14 - UNIONIZATION**

AET reserves the right to renegotiate an appropriate fee increase or to terminate its contract on three (3) days written notice to Client and will not accept any liability for any penalties or costs from Client, Owner and their successors, assignees, joint-venturers, Contractors and Subcontractors, or any other parties involved with the project for claims, liabilities, damages or consequential damages directly or indirectly related to AET being required to provide unionized personnel on the project. Reservation of this right on the part of AET represents neither approval nor disapproval of unions in general or the use of collective bargaining agreements.

**SECTION 15 - POSTING OF NOTICES ON EMPLOYEE RIGHTS**

Effective June 21, 2010, prime contracts with a value of \$100,000 or more and signed by federal contractors on projects with any agency of the United States government must comply with 29 CFR Part 471, which requires physical posting of a notice to employees of their rights under Federal labor laws. The required notice may be found at 29 Code of Federal Regulations Part 471, Appendix A to Subpart A. The regulation also has a "flow-down" requirement for subcontractors under the prime agreement for subcontracts with a value of \$10,000 or more. AET requires strict compliance of its subcontractors working on federal contracts subject to this regulation. The regulation has specific requirements for location of posting and language(s) for the poster.

**SECTION 16 - TERMINATION**

After 7 days written notice, either party may elect to terminate work for justifiable reasons. In this event, the Client shall pay AET for all work performed, including demobilization and reporting costs to complete the file.

**SECTION 17 - SEVERABILITY**

Any provisions of this agreement later held to violate a law or regulation shall be deemed void, and all remaining provisions shall continue in force. However, Client and AET will in good faith attempt to replace an invalid or unenforceable provision with one that is valid and enforceable, and which comes as close as possible to expressing the intent of the original provision.

**SECTION 18 - GOVERNING LAW**

This Agreement shall be construed, and the rights of the parties shall be determined, in accordance with the Laws of the State of Minnesota.

**SECTION 19 - ENTIRE AGREEMENT**

This agreement, including attached appendices, is the entire agreement between AET and Client. Regardless of method of acceptance of AET's proposal and general conditions by the Client, this agreement nullifies any previous written or oral agreements, including purchase/work orders. Any modifications to this agreement must be mutually acceptable to both parties and accepted in writing. No considerations will be given to revisions to AET's general conditions or alternate contract format submitted by the Client as a condition for payment of AET's accrued services.

**SECTION 1 - UNDERGROUND UTILITY AND STRUCTURE CLEARANCE**

**1.1** - It is necessary that borings, excavations and other penetrations be located such that they maintain a minimum safe distance from underground utilities or other man-made objects. Client shall advise AET of all utilities that service or are located on the site, as well as any underground improvements located on the site. AET will contact state notification centers, where available, or individual utility owners where a state notification center is not available prior to drilling.

**1.2** - Public utility owners may not provide the locating service on private property. In such situations, the Client is responsible for location of such utilities prior to drilling.

**1.3** - The property owner may have private underground improvements which cannot be cleared through the state notification center or public utility owners. The Client is responsible for location of these improvements.

**1.4** - AET will not be responsible for any damages to "non-located" or incorrectly located underground utilities or other man-made improvements.

**SECTION 2 - SITE RESTORATION**

**2.1** - Client accepts that in the normal course of field exploration work, certain types of damage to the site may occur which are inherent with this type of work, such as tire indentations to lawns and landscape areas. It is the responsibility of AET to take reasonable precautions to minimize such damage. It is also AET's responsibility to patch boreholes placed through pavement or slab areas after performance of borings. Otherwise, restoration of the site is the responsibility of the client.

**SECTION 3 - CONTAMINATION**

**3.1** - Client acknowledges and accepts that unavoidable contamination risks may be associated with AET's subsurface drilling, sampling and installation of monitoring devices. Risks include, but are not limited to, cross contamination created by linking contaminated zones to uncontaminated zones during the drilling process; containment and proper disposal of known or suspected hazardous materials, drill cuttings and drill fluids; and decontamination of equipment and disposal and replacement of contaminated consumables. Client and AET agree that the discovery of unanticipated actual or suspected hazardous materials may make it necessary for AET to take immediate measures, including regulatory notification, to protect human health and safety, and/or the environment. Client and AET also agree that the discovery of such materials constitutes a changed condition which may result in added costs to the Client, and may require a renegotiation of work scope or termination of services.

**3.2** - Pursuant to risks set forth in Section 3.1, which are inherent with AET's work performed on the Client's behalf, Client agrees to hold harmless and indemnify AET from and against liability associated with contamination resulting there from.

**SECTION 4 - LOST EQUIPMENT**

Equipment lost in bore holes may be required to be retrieved or properly abandoned by government agencies. Client agrees to pay AET all costs related to retrieving and/or abandoning such equipment at AET fee schedule rates, unless agreed otherwise.

**SECTION 5 - LIMITATIONS OF SUBSURFACE EXPLORATION**

Client recognizes that unavoidable risks occur whenever engineering or related disciplines are applied to identify subsurface conditions. Variations in soil conditions usually occur between and beyond sampled/tested locations. Even a comprehensive sampling and testing program performed in accordance with a professional standard of care may fail to detect certain conditions, because the variability of conditions cannot be seen. For similar reasons, actual environmental, geologic and geotechnical conditions that AET characterizes to exist between sampling points may differ significantly from those that actually exist. The passage of time also must be considered, and Client recognizes that, due to natural occurrences or direct or indirect human activities at the site or distant from it, actual conditions discovered may change. Client recognizes that nothing can be done to eliminate the risks associated with these limitations.





# American Engineering Testing, Inc. 2014 Environmental Fee Schedule

**CONSULTANTS**  
• ENVIRONMENTAL  
• GEOTECHNICAL  
• MATERIALS  
• FORENSICS

## Engineering/Technical Personnel Rates

A. Administrative Assistant	\$63/hr
B. Engineering/Environmental Technician I	69/hr
C. Draftsperson	77/hr
D. Engineering/Environmental Technician II	81/hr
E. Drill Technician/Geotechnical Lab Technician	91/hr
F. Technician Level II CWI/ICBO	93/hr
G. Senior Engineering/Environmental Technician III	97/hr
H. Engineering Assistant	107/hr
I. Engineer I, Geologist I, Scientist I	115/hr
J. Senior Engineering Assistant	120/hr
K. Engineer II, Geologist II, Scientist II,	131/hr
L. Senior Engineer, Geologist, Scientist	147/hr
M. Principal Engineer, Geologist, Scientist	176/hr
N. Principal of Firm	188/hr
O. Litigation Preparation	240/hr
P. Deposition or Court Time (4-hour minimum)	305/hr

The rates presented are portal to portal, with vehicle mileage, expenses and equipment rentals being additional. Reduced rates may be negotiated for long-term projects.

Overtime for personnel categories A-E charged at above cost plus 25% for over 8 hours per day or Saturday; and at above cost plus 50% for Sundays or Holidays. Night time shift work will include a premium charge of \$30.00 per person per shift.

## Vehicle Mileage (personnel time and rental extra)

A. Personal Automobile/Truck	\$.75/mi
B. ½ or ¾-ton Auxiliary Truck/Van	1.00/mi
C. Truck with Coring Equipment	1.10/mi
D. 1 or 2-ton Rig Auxiliary Truck	1.15/mi
E. Truck with Warning Sign/Crash Trailer	1.20/mi
F. 1-ton Truck with Drill Rig	1.20/mi
G. 1½ to 2½-ton Truck with Drill Rig	1.35/mi
H. 20-Ton CPT Truck Rig	1.60/mi
I. Tractor/Lowboy Trailer	1.80/mi

## Site Exploration Equipment Rental/Services

A. Drill Rig Rental	
1. Rotary Drill on 4WD 1-ton Truck	\$67/hr
2. Rotary Drill on 2WD 1½ to 2½-ton Truck	77/hr
3. Rotary Drill on 4WD 1½ to 2½-ton Truck	79/hr
4. Rotary Drill on All-Terrain Vehicle	107/hr
5. Portable, Non-rotary Rig	77/hr
B. Rig Auxiliary/Specialty Vehicle Rental	
1. Trailer	8/hr
2. ¾-ton Truck	17/hr
3. 1-ton or 2-ton Truck	22/hr
4. Truck with Warning Sign/Crash Trailer	27.50/hr
5. Truck with Coring Equipment	43/hr
C. Cone (CPT) Rig/Equipment Rental	
1. 20-Ton CPT Rig, Truck or ATV	\$140/hr
2. Electronic Cone or Piezocone w/computer	40/hr

4. Soil Sampler	3.50/hr
5. Water Sampler	20/hr
D. Geotechnical Equipment Rental	
1. Field Vane Shear	315/day
2. Inclinator Reading Equipment	325/day
3. Pneumatic Transducer Reading Equipment (pore pressure, settlement or earth pressure)	165/day
4. Bore Hole Permeability	
a) Open End Casing Method	133/day
b) HQ Wireline Packer	325/day
5. Borehole Pressuremeter	67/hr
6. Iowa Borehole Shear Tester	330/day
7. Double Ring Infiltrometer	255/day
8. GPS Mapping System Equipment	15/hr
9. Pile Driving Analyzer (PDA)	730/day
10. Calibrated SPT Rod	195/day
11. Field Electrical Resistivity Equipment (Wenner 4-Pin)	230/day
12. Field Seismic Refraction Equipment (ReMi)	400/day
E. Geotechnical Software Rental	
1. Finite Element (seepage or soil deformation)	55/hr
2. CAPWAP	30/hr
3. Wave Equation (WEAP)	15/hr
4. LPILE or Group	15/hr
5. Slope Stability (ReSSA)	15/hr
6. Stabilized Earth Slopes and Walls	15/hr
7. Settlement (FoSSA)	15/hr
8. SHAFT	15/hr
F. Bit Wear	
1. Diamond Bit - Sedimentary Rock	
a) B, NQ	10/ft
b) HQ	12/ft
2. Diamond Bit - Metamorphic and Igneous	
a) B, NQ	17/ft
b) HQ	20/ft

## Water and Wastewater Monitoring Equipment Rental

A. ISCO Autosampler	\$55/day
B. Refrigerated ISCO Autosampler	100/day
C. Liquid Level Recorder	50/day
D. Flow Meter	85/day
E. Confined Entry Equipment	140/day
F. Weir Materials	40/day
G. Recording pH Meter	45/day
H. Kemmerer Type Sampler	45/day
I. Chlorine Residual Meter	45/day
J. DR2000 Spectrophotometer	85/day

## Groundwater Monitoring Equipment Rental

A. Dissolved Oxygen Meter	\$50/day
B. pH Meter	25/day
C. Conductivity Meter	25/day
D. Redox Potential Meter	25/day



## American Engineering Testing, Inc. 2014 Environmental Fee Schedule

**CONSULTANTS**  
• ENVIRONMENTAL  
• GEOTECHNICAL  
• MATERIALS  
• FORENSICS

E. Bailers-Polypropylene	15/ea
F. Bailers-Teflon	30/ea
G. Groundwater Modeling Software	25/hr
H. Water Level Probe	50/day
I. Oil-Water Interface Sensor	90/day
J. Well Rate of Recovery Equipment	150/day
K. 2" Pump Assembly	110/day
L. Peristaltic Assembly	60/day
M. YSI Multi-Parameter Meter	120/day
N. Turbidity Meter	25/day
O. Groundwater Filter – Nalgene	10/ea
P. HydroPunch	250/day

Q. Vacuum Sampler Assembly	100/day
R. Heated Sample Line Assembly	150/day
S. Orsat Analyzer	100/day
T. 40L Tedlar Bag	35/ea
U. Three-Dimensional Pitot Tube Assembly	200/day
V. EPA Method 6C Analyzer	325/day
W. EPA Method 7E Analyzer	325/day
X. EPA Method 10 Analyzer	325/day
Y. Sample Gas Conditioner	100/day
Z. Extractive FTIR Analyzer	3000/week
AA. Gas Chromatograph	quoted per job

### Soil Sampling and Support Equipment Rental

A. Direct Push Sampling System (Geoprobe 7)	\$95/hr
B. XRF Analyzer	550/day
C. Soil Auger Assembly	50/day
D. Power Auger	65/day
E. Hammer Drill, small	25/day
F. Site Trailer	85/day
G. Level A, B, or C Protective Gear	quoted per job
H. Vacuum Blower	quoted per job
I. ColiWassa Sampler	15/ea
J. Steam Cleaning Service (includes rental)	
1. Drill Rig/Tools	315/clean
2. Down Hole Drill Tools Only	210/clean
K. Steam Cleaner	140/day
L. Portable Generator (220 volt)	25/day
M. Magnetic Locator	25/day

### Industrial Hygiene Equipment Rental

A. Sampling Pump, 28.3 liter	\$50/day
B. Sampling Pump, High Flow	100/day
C. Sampling Pump, Dragger	25/day
D. Protimeter Moisture Monitor	100/day
E. Bore Scope	25/day
F. Wet Wall Detector	25/day

### Air Monitoring Equipment Rental

A. Photoionization Detector	\$115/day
B. Flame Ionization Detector	175/day
C. LEL Meter	100/day
D. Landtec Methane Meter	175/day
E. Gas Meter (LEL, O <sub>2</sub> , H <sub>2</sub> S, CO)	115/day
F. Methane Meter	100/day
G. Air Velocity Meter	100/day
H. Air Flow Measurement Instrumentation	100/day
I. EPA Method 25 Analyzer	325/day
J. Impinger/Meter Console Assembly	250/day
K. EPA Method 3A Analyzers	325/day
L. EPA Method 5/17 Sampling Train	375/day
M. EPA Method 201A Sampling Train	425/day
N. EPA Method 23 Sampling Train	550/day
O. EPA Method 26A Sampling Train	325/day
P. EPA Method 29 Sampling Train	550/day

### Expenses

Direct Project Expenses:

includes out-of-town per diem; plowing and towing; special equipment, materials and supplies; special travel, transportation and freight; subcontracted services, and miscellaneous costs      Cost + 15%

Equipment Replacement –

(when abandonment is more feasible than recovery)      Cost

Equipment Recovery –

(when required by regulatory agencies or project specifications)      Cost + 15%

### Clerical/Drafting Services and Rentals

A. Report Reproduction	
1. Minimum (copying additional)	50/report
2. Copying	.35/sheet
B. Computer and Software Rental (personnel time extra)	
1. AutoCAD or Microstation	25/hr
2. CADD Plotting	1.00/sq.ft.
3. Air Dispersion Modeling	25/hr
4. Ground Water Modeling	25/hr
C. Digital Camera/Photographs	
1. Camera Rental	25/day
2. Color Photographs	1.50/page
D. Direct Project Expenses	Cost + 15%

A minimum charge of \$100.00 per job may be assessed to cover administrative costs.