

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CONSULTANT QUALIFICATION QUESTIONNAIRE**

PROJECT NAME City of Wheeling Landfill Closure Cap	DATE (DAY, MONTH, YEAR) 22, November, 2016	FEIN 13-0408630
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1. FIRM NAME TRC Engineers, Inc.	2. HOME OFFICE BUSINESS ADDRESS 7 Skyline Drive, Hawthorne, NY 10532	3. FORMER FIRM NAME <small>SITE-Blauvelt Engineers, Inc. 1996; SITE Engineers, Inc. - 1961; Brown and Blauvelt - 1946; Blauvelt Engineering Company - 1957; Blauvelt Engineers, P.C. - 1987</small>
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4. HOME OFFICE TELEPHONE 914-592-4040	5. ESTABLISHED (YEAR) 2006	6. TYPE OWNERSHIP INDIVIDUAL, CORPORATION, PARTNERSHIP, JOINT-VENTURE Corporation	6A. WV REGISTERED DBE (DISAVANTAGED BUSINESS ENTERPRISE) YES NO X
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7. PRIMARY OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. (name particular type) PERSONNEL EACH OFFICE
1 Kenton Drive, Suite 200, Charleston, WV 25311 / 304-346-2599 / David E. Clevenger, P.E. / 20 Employees

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM David E. Clevenger, P.E.	8a. NAME, TITLE, & TELEPHONE NUMBER-OTHER PRINCIPALS <small>Douglas R. Genthe, P.E., D.GE, VP Geotechnical Engineering and Solid Waste Management, 608-826-3624</small>
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9. NUMBER OF PERSONNEL BY DISPLINE (**Bold Lettering Indicates Minimum Design Team Members**)
Detailed information On Team To Be Included

<u>1</u> ADMINSIRATIVE	<u>1</u> ECOLOGISTS	<u>1</u> LANDSCAPE	<u>1</u> STRUCTURAL
<u>1</u> ARCHITECTS	<u>1</u> ECONOMISTS	<u>1</u> ARCHITECTS	<u>1</u> ENGINEERS
<u>1</u> BIOLOGIST	<u>1</u> ELECTRICAL	<u>1</u> MECHANICAL	2 SURVEYORS
2 CADD OPERATORS	<u>1</u> ENGINEERS	<u>1</u> ENGINEERS	<u>1</u> OTHER
<u>1</u> CHEMICAL ENGINEERS	<u>1</u> ENVIRONMENTALISTS	<u>1</u> MINING	
<u>1</u> CIVIL ENGINEERS	<u>1</u> ESTIMATORS	<u>1</u> ENGINEERS	
2 CONSTRUCTION	<u>1</u> GEOLOGIST	<u>1</u> PHOTOGRAMMETRISTS	
<u>1</u> INSPECTORS	<u>1</u> HISTORIANS	<u>1</u> PLANNERS:	<u>14</u> TOTAL
<u>1</u> DESIGNERS	<u>1</u> HYDROLOGISTS	<u>1</u> URBAN/REGIONAL	<u>1</u> PERSONNEL
<u>1</u> DRAFTSMEN		<u>1</u> SANITARY	
		<u>1</u> ENGINEERS	
		1 SIOLS ENGINEERS	
		<u>1</u> SPECIFICATION	
		<u>1</u> WRITERS	

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE:
12

*RPEs other than Civil must provide supporting documentation that qualifies them to supervise and perform this type of work.

10. If submittal is by joint venture, list participating firms & outline specific areas of responsibility (including administrative, technical, & financial) for each firm. Each participating firm must complete a "Consultant Confidential Qualification Questionnaire". **Not Applicable**

10a. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO

11. OUTSIDE KEY CONSULTANTS/ SUB-CONSULTANTS ANTICIPATED TO BE USED.

NAME AND ADDRESS: Not Applicable	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
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NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO

12. A. Is your firm experienced in (Solid Waste Landfill Closure Design)?

YES Description and Number of Projects:

Over the last 35+ years TRC has completed in excess of 230 landfill closure designs

in 31 states, primarily in the Midwest, Southeast and Southwest. The designs were associated with public and private municipal solid waste as well as industrial waste landfills.

NO

B. Is your firm experienced in Solid Waste landfill site characterization assessment and evaluation?

YES Description and Number of Projects:

TRC has completed 50+ projects associated with evaluating closed municipal and industrial waste landfill sites relative to potential groundwater impacts, confirming limits of actual waste placement & condition of the existing final cover system prior to recommending and/or implementing final cover system improvements to minimize environmental impacts. Possible end use options of the final cover green space are also evaluated.

NO

C. Is your firm experienced in landfill closure construction inspection?

YES Description and Number of Projects:

TRC provides landfill construction observation and documentation services for landfill liner and final cover systems on a regular basis. For 2016 we were the engineer of record for 6 industrial and municipal solid waste landfill projects in 4 states that involved 21 acres of liner and 13 acres of final cover construction.

NO

D. Is your firm experienced in Aerial Photography and the Development of Contour Mapping?

YES Description and Number of Projects:

TRC coordinates aerial photography and/or Lidar surveys on a regular basis for use in contour map development for purposes of landfill construction design and cost estimates as well as annual waste fill volume estimates. On average approximately 5 to 7 landfill contour mapping projects are completed every year.

NO

E. Is your firm experienced in evaluating ground water contamination, such as may be associated with landfills?

YES Description and Number of Projects:

TRC has a deep bench of hydrogeologists and chemists whose primary focus is the investigation and remediation of groundwater contamination. We perform the regulatory required periodic environmental reporting and assessments for 22 closed municipal and industrial landfills sites on an ongoing basis.

NO

F. Is your firm experienced in Landfill Closure cost estimating?

YES Description and Number of Projects:

Over the last 3-years we have provided construction engineering and documentation services on 15 landfill liner (10) and final cover (5) projects. These projects were located in 7 states including WV, SC, OH, IN, IL, WI and TX. An engineering opinion of probable construction cost was prepared for each of these projects.

NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (describe project) (Furnish Complete data but keep to essentials)			
NAME & TITLE (Last, first, Middle Int.)	YEARS OR EXPERIENCE		
Tiemann, Gregory, E. Senior Client Service Manager	32		
	YEARS OF (type) EXPERIENCE: Landfill (Closure) Design & Construction (9 yrs.)	YEARS OF (type) EXPERIENCE: Hydrogeology and Groundwater Assessment (10yrs.)	YEARS OF (name type) EXPERIENCE: Project Management (13 years)
Brief Explanation of Responsibilities: Responsibilities and roles served will include Primary Point of Contact (POC) with the WVDEP LCAP Project Manager, QA/QC of project deliverables, and management of the project budget. Will provide technical support as part of hydrogeological assessment, groundwater fate and transport modeling, and potential remediation design and implementation.			
EDUCATION (DEGREE, YEAR, SPECIALIZATION) BS Degree, 1986, Geology; BA Degree, 1986 History; MS Degree, Geology (WVU)			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: WV Chamber of Commerce, Air & Waste Management Association		REGISTRATION (Type, Year, State) LRS, WV, 1998; PG, PA, 2003	
13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE DESIGN (name type of design or work) (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Amstadt, Michael, J.	YEARS OF EXPERIENCE (name type): Landfill (Closure) Design & Construction (25 yrs.)	YEARS OF EXPERIENCE (name type): Landfill Groundwater Remediation (18 yrs.)	YEARS OF EXPERIENCE (name type): Landfill Gas System Design & Monitoring (15 yrs.)
	Brief Explanation of Responsibilities: Responsibilities and roles served may include senior design engineer, technical coordinator, project manager for all aspects associated with permitting, design, and construction and closure of various solid waste management landfill, environmental, and remediation projects. Is responsible for preparation of opinions of probable construction cost.		
EDUCATION (Degree, Year, Specialization) BS Degree, 1990, Civil & Environmental Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS USWAG, ACAA		REGISTRATION (Type, Year, State) (PE, 2010, WV), (PE, 1996, WI), (PE in 14 other states)	

13b. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR LANDFILL CLOSURE QA/QC (Furnish complete data but keep to essentials)			
NAME & TITLE (last, first, middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE (name type):	YEARS OF EXPERIENCE (name type):	YEARS OF EXPERIENCE (name type):
Madsen, Curtis D.	Landfill (Closure) Design & Construction (38 yrs.)	Landfill Groundwater Remediation (25 yrs.)	Landfill Gas System Design & Monitoring (22 yrs.)
Brief Explanation of Responsibilities: Responsibilities include project management and as well as functioning periodically as a senior consulting engineer for all aspects of permitting, design, construction (including opinions of probable cost), operation and/or closure of various solid waste management projects. Experience also includes the design of landfill gas collection and control systems that may include energy recovery.			
EDUCATION (Degree, Year, Specialization) BS/MS Degrees, 1979/1995, Civil & Environmental Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS ASCE, SWANA, USWAG, ACAA		REGISTRATION (Type, Year, State) (PE, 1984, WI), (PE, 1998, IN), (PE, 1999, IL)	
13c. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR HEAVY EARTH WORK CONSTRUCTION PROJECTS (Furnish complete data but keep to essentials)			
NAME & TITLE (last, first, middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF EXPERIENCE (name type)	YEARS OF EXPERIENCE (name type)	YEARS OF EXPERIENCE (name type)
Martin, Todd, W.	Construction Management & Quality Assurance (35 yrs.)	Landfill Construction Permitting (28 yrs.)	Preparation of Construction Plans & Specifications (28 yrs.)
Brief Explanation of Responsibilities Serves as a project manager and solid waste team leader. Provides guidance and assists with landfill and containment system permitting and design, storm water management permitting and design, site civil design, construction management and construction quality assurance, and preparation of opinions of probable cost.			
EDUCATION (Degree, Year, Specialization) Associate Degree, Civil & Highway Technology, 1981			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS N/A		REGISTRATION (Type, Year, State) N/A	

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE THIS PROJECT (name project)
The following is a partial list of software and equipment that may be utilized on this project:
Computer-Aided Design: InRoads MicroStation, AutoCAD, Civil 3D
Civil Engineering Tasks: InRoads (full capacity design), HYDRAIN (hydraulic and hydrologic design and analysis for storm sewer pipes, culverts and open channels), KYPIPE, KYGAS, HydroCAD, HEC-RAS (water surface modeling for bridges, major culverts, and flood plains), HY-8 (hydraulic analysis of culverts), TR-20 (watershed hydraulic analysis), TR-55 (hydrology for small watersheds), HYCHL (flexible and rigid channel lining design and analysis), HYEHYEQT (flow equation), WSPRO (open channel water surface analysis), Flowmaster (open channel, pipe, ditch, and pressure flow), WinSLAMM (TSS treatment and water quality)
Geotechnical Engineering Tasks: ReSlope (reinforced embankments and slopes), SRWall (segmental retaining wall design), XSTABL (circular/non-circular surfaces and reinforced slope stability analysis), CONSOL (settlement analysis), GMS (interface for groundwater modeling), SlopeW (slope stability modeling), HELP (water balance modeling), Pcase (pavement design)
Geographic Information Systems (GIS): ArcMap 10.2.2, ArcCatalog 10.2.2
Visual MODFLOW (MODFLOW, MT3DMS); BioChlor and BioScreen; SeaWat; Geochemical Analysis software; Trilinear Plotting software; Gint; Database capabilities linked to GIS (water quality/plumes plotting capabilities); EVS and MVS (for 3D mapping, visualization and calculations)

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD ASSOCIATED WITH OR RELATING TO LANDFILL CLOSURE OR CONSTRUCTION.

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESOPNSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Power plant; Closer/reconstruction of multiple lined (6 acres) containment structures/Water treatment plant; WV	Confidential Client	Engineering design; Construction drawings & specifications; Construction observation; Documentation report	\$30,000,000	30%
Metal Foundry; 8-acre landfill liner; Defiance, OH	Confidential Client	Engineering design; Construction drawings & specifications; Construction observation; Documentation report	\$1,300,000	90%
Municipal landfill; 7-acre composite final cover construction; WI	Lincoln County Landfill, N 4750 Landfill Lane, Merrill, WI, 54452; Dan Miller, Manager, (608) 715-0424; DMiller@co.lincoln.wi.gov	Engineering design; Construction drawings & specifications; Construction observation; Documentation report	\$1,300,000	95%
Metal Foundry; 7-acre composite liner; Waupaca, WI	Confidential Client	Engineering design; Construction drawings & specifications; Construction observation; Documentation report	\$1,400,000	85%
Power plant; 3-acre landfill composite final cover system; WI	Dairyland Power Coop, 3200 E. Ave. S, La Crosse, WI; 54602, Mike McCullick, (608) 792-5193, mam@dairy.net.com	Engineering design; Construction drawings & specifications; Construction observation; Documentation report	\$500,000	90%
TOTAL NUMBER OF PROJECTS:			TOTAL ESTIMATED CONSTRUCTION COSTS:	
# 5			\$ 34,500,000	

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD (List 5 to 7)				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Industrial Landfill; Closure with storm water management features of 18-acre cap; TX	Retia Col-Tex; c/o Fraser Will; Houston, TX; (713) 483-5051	\$2,100,000	2012-2016	Yes
Power plant landfill; 3.5-acre composite cover system; WI	Dairyland Power Coop; 3200 E. Ave. S, La Crosse, WI, 54602; Mike McCullick, (608) 792-5193, mam@dairyland.com	\$726,000	2015	Yes
New landfill; Initial 15-acre composite liner system; WI	Wisconsin Public Service Corp; 700 North Adams, Green Bay, WI; Dawn DeJardin, (920) 433-5787	\$7,000,000	2015	Yes
Private municipal waste landfill; Waste relocation and 8-acre composite liner cell; IL	Advanced Disposal Systems; St. Louis, MO; Tim Curry, tim.curry@advanceddisposal.com	\$1,700,000	2015	Yes
Private Landfill; 6-acre composite final cover system; MI	Confidential Client	\$600,000	2015	Yes
Foundry Landfill; 4-acre final cover; IN	ThyssenKrupp Waupaca Corp; 1955 Brunner Dr.; Waupaca, WI 54981; Bryant Esch, (715) 258-9268	\$400,000	2014	Yes
Foundry Landfill, 6-acre liner; TN	ThyssenKrupp Waupaca Corp; 1955 Brunner Dr.; Waupaca, WI 54981; Bryant Esch, (715) 258-9268	\$600,000	2014	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS IN WHICH YOUR FIRM HAS BEEN A SUBCONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK WHICH YOUR FIRM WAS RESPONSIBLE) LIST 5 TO 7.

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Not Applicable					

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the WV Department of Environmental Protection.


TRC Engineers, Inc. (TRC) is an engineering, design and consulting firm that offers a diversity of expertise in environmental-related consulting, civil design, geotechnical engineering, construction engineering and inspection to both public and private-sector clients throughout the United States. Nationally, our firm employs nearly 4,000 administrative, engineering, scientists and technical personnel in more than 100 offices.

Relative to the types of technical services that may be required for the site characterization, leachate management, and closure cap design for the City of Wheeling Landfill, TRC has a deep bench of staff specifically experienced in remedial site investigations, landfill design and closure, landfill gas and leachate management, electrical power and automation, and operations and maintenance (O&M) of systems associated with our designs. Our project staff also have access to in-house services that include geotechnical and geosynthetics laboratories, an applied chemistry laboratory, and subsurface drilling capabilities for site investigations.

TRC has been providing engineering and environmental consulting services to both the State of West Virginia and other clients out of our Charleston, WV, office for over 20 years. Greg Tieman, PG, LRS, is the client/project manager who would be involved with the City of Wheeling Landfill project is located in Charleston. Greg is a senior hydrogeologist with significant experience in site investigations and remedial design, and has provided MSW landfill closure design, operations assistance, and hydrogeological investigation at West Virginia landfills since 1989. He was involved with the original site investigation of the Ravenswood (WV) Landfill beginning approximately 12 years ago, subsequent implementation of the remedial design, and maintains his involvement with the follow-on environmental monitoring and periodic regulatory reporting that is required.

In summary TRC has the staffing resources, technical expertise, and support capabilities to undertake projects of varying scope and complexity as they pertain to environmental site investigations, engineering design, preparation of site closure construction drawings and specifications, and preparation of appropriate documents and application for all required permits related to a project. These efforts will be supported by any required survey and mapping, laboratory analysis, subsurface investigations to determine limits and depth of waste, and location of potential borrow areas either on site or near-by. We appreciate your evaluation and look forward to having the opportunity to meet with you regarding our involvement on this project.

20. The foregoing is a statement of facts

Signature: 
Title: Principal, Transportation Design

Date: 11/17/16

Printed
Name: David Clevenger



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 254208

Doc Description: Addendum 2-EOI: City of Wheeling Landfill Closure Cap

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2016-11-04	2016-11-22 13:30:00	CEOI 0313 DEP1700000002	3

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

TRC Engineers, Inc.
 1 Kenton Drive, Suite 200
 Charleston, WV 25311
 304-346-2599
 David E. Clevenger, P.E.

FOR INFORMATION CONTACT THE BUYER

Jessica S Chambers
 (304) 558-0246
 jessica.s.chambers@wv.gov

Signature X

FEIN # 13-0408630

DATE 11/17/16

All offers subject to all terms and conditions contained in this solicitation

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0313 DEP1700000002

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.


Addendum Numbers Received:
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

TRC Engineers, Inc.

Company



Authorized Signature

11/17/16

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012