



**State of West Virginia  
Department of Administration  
Purchasing Division**

**NOTICE**

Due to the size of this bid, it was impractical to scan every page for online viewing. We have made an attempt to scan and publish all pertinent bid information. However, it is important to note that some pages were necessarily omitted.

If you would like to review the bid in its entirety, please contact the buyer. Thank you.

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**Stantec Consulting Services Inc.**  
1 Moore Avenue  
Buckhannon, WV 26201  
Tel: (888) 830-1272  
Fax: (304) 472-6239

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**Stantec**

May 21, 2008

West Virginia Department of Environmental Protection  
Office of Abandoned Mine Lands  
601 57<sup>th</sup> Street, SE – Box 20  
Charleston, West Virginia 25304-2345

**Attention: Mr. Nick Estes, P.E., Design Administrator**

Dear Mr. Estes:

**Reference: Maben Preparation Plant and Refuse Pile Design Services**

Please find enclosed an Expression of Interest (EOI) for Stantec Consulting Services Inc. to perform engineering services for the Maben Preparation Plant and Refuse Pile Design Services, P.O. Number DEP 14237, West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands (WVAML) reclamation project. Stantec Consulting Services Inc. is an 8,700 member engineering company with two offices in West Virginia at Charleston and Buckhannon. Please review the enclosed completed "AML Consultant Confidential Qualification Questionnaire", "AML and Related Project Experience Matrix", and Purchasing Affidavit for Stantec to perform engineering services for the Maben Preparation Plant and Refuse Pile Design Services project.

Stantec's Charleston office teamed with our Buckhannon office recently completed the Price Hill Air Shaft/Buildings AML project in the same geologic and hydrologic setting located just 18 air-miles at Price Hill, West Virginia from the Maben Preparation Plant and Refuse Pile project. In addition, Stantec has employee experience completing the record search, field tasks (surveying and subsurface investigation), and preliminary design on the Slab Fork Mine Dump also located in the same geologic and hydrologic setting and just 3.6 air-miles from the Maben Preparation Plant and Refuse Pile project. The Slab Fork Mine Dump AML project had burning refuse that required quenching and cooling, re-compacting, storm runoff and groundwater diversion, and soil cover.

Stantec also has EOI-specific experience successfully completing other projects for the WVAML Program; for the West Virginia Department of Environmental Protection, Office of Special Reclamation; for the Ohio Department of Natural Resources (ODNR) AML Program; and for the West Virginia Conservation Agency. In addition, Stantec has employee project-specific experience completing other Projects for the WVAML Program. Our AML Project experience includes surveying and mapping; subsurface investigations; slope stability analyses, design, and stabilization; groundwater and surface water testing, analyses, and reporting; refuse and overburden neutralization calculations and design; wet mine seals design, modified wet mine seals with bat gates design, and vertical shaft mitigation design; mass balanced earthwork quantities;

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structure demolition and removal plans; site drainage design including hydrologic and hydraulic studies for bridges, natural stream designs; channels, ditches, pipes and box culverts; civil site design; sediment control; and revegetation plans as well as construction plans and specifications. Approximately half of these projects involved passive acid mine drainage treatment designs ranging from simple limestone beds to complex interactive systems that boost AMD pH to precipitate metals, settle and filter dissolved metals, and polish effluent water with alkalinity prior to release of near neutral waters from the Project area. In addition, Stantec designed the first active alkaline treatment system for the State of West Virginia (Special Reclamation), which is nearing completion with start-up operations currently underway.

Other Project-Specific AML reclamation and related experience competed for the WVDEP includes:

1.	WVDEP: Price Hill Airshaft/Buildings;		
\$627,000	1,300 C.Y. Earthwork	<b>2 Vertical Mine Seals</b>	Construction Plans and
Eng.	53 "V" Ditches	Structure Demolition and	Specifications, Geotechnical
Estimate	42 L.Ft. Grouted "V" Ditches	Debris Removal	Subsurface Investigation, <b>Cost</b>
	20 L.Ft. Flat Bottom Ditches	Refuse Re-Soiling Plan	<b>Estimates</b> , Project Mapping,
	150 L.Ft. Subsurface Drain	De-watering Plan	Hydrologic Investigation,
	48" Aerial Leaking Pipe	<b>Access Road Improvement</b>	<b>Revegetation Plan</b> , Project
	Replacement	<b>and Construction</b>	Reporting and Invoicing
2.	WVDEP Emergency AML: Laurel Valley (Daniels) Landslide;		
\$284,000	<b>13,000 C.Y. Earthwork</b>	Surveying and Mapping	Construction Plans and
Eng.	<b>182 L.Ft. "V" Ditches</b>	<b>200 L.Ft. Subs. Drain</b>	Specifications, <b>Geotechnical</b>
Estimate	<b>696 L.Ft. Culverts</b>	Debris Removal	<b>Subsurface Investigation</b> ,
		<b>Existing and Proposed Slope</b>	Cost Estimates, Project
		<b>Stability Analysis</b>	Mapping, Hydrologic
		Sediment Control Plan	Investigation, <b>Revegetation</b>
		Revegetation 4.0 Acs.	<b>Plan</b> , Project Reporting and
			Invoicing
3.	WVDEP: Weaver Portals and Mine Drainage, Phase I and Phase II;		
\$2,200,000	<b>162,821 C.Y. Earthwork</b>	<b>14 Wet Mine Seals</b>	Construction Plans and
Eng.	<b>6,543 L.Ft. "V" Ditches</b>	<b>1,170 L.Ft. Subs. Drain</b>	Specifications, Geotechnical
Estimate	<b>1,947 L.Ft. Flat Btm Ditches</b>	Debris Removal	Subsurface Investigation, <b>Cost</b>
	<b>321 L.Ft. Culverts</b>	<b>De-watering Plan</b>	<b>Estimates</b> , Project Mapping,
		Six Limestone Beds	Hydrologic Investigation,
		w/Aluminators and Flush Ponds	<b>Revegetation Plan</b> , Project
			Reporting and Invoicing

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4.	ODNR AML: Nutter Brothers Tipple, Permit D-716;		
\$96,000	<b>14,200 C.Y. Earthwork</b>	<b>HAZMAT Debris Removal</b>	Construction Plans and Specifications, Geotechnical <b>Subsurface Investigation, Cost Estimates</b> , Project Mapping, Hydrologic Investigation, <b>Revegetation Plan</b> , Project Reporting and Invoicing
Eng.	<b>1,500 L.Ft. Ditches</b>	<b>(UST's, AST's)</b>	
Estimate	<b>225 L.Ft. Subsurface Drain</b>	<b>7.2 Ac. Resoiling Plan with Refuse Neutralization Structure Removal</b>	

At the request of WVDEP, Stantec can provide Quality Control/Quality Assurance and Construction Observation for the Maben Preparation Plant and Refuse Pile Design Services project. Some Project-Specific design and associated QA/QC experience includes:

1.	WVDEP: Gladly Fork Mining D-35-82 Bond Forfeiture \$3.0M	Active Alkaline Treatment Plant;	
\$3,100,000	Active Alkaline Treatment	Concrete Aeration Basin	<b>Construction Inspection: Concrete testing and reporting, Compaction testing and reporting, Full Time Construction Observation and Reporting</b>
Bid	Plant - Single Train to Treat	Concrete Flocculator	
Estimate	1,000 GPM	Concrete Settling Basin	
	Construction Plans and Specifications Project	Concrete Sludge Thickener	
	Mapping	Concrete Geo-Tube Slab	
	Hydrologic Investigation	Bridge over Stonecoal Creek	
2.	WVCA: Fisher-Mill Creek Bank Stabilization;		
\$284,000	148 L.Ft. Drilled Pile	<b>Construction Inspection:</b>	Construction Plans and Specifications, Project Mapping, Hydrologic Investigation Geotechnical Investigation Existing and Proposed Slope Stability
Eng. Est.	and Lag Wall,	<b>Concrete testing and reporting,</b>	
	Ground Water and	<b>Compaction testing and reporting,</b>	
	Surface Water	<b>Full Time Construction Observation</b>	
	Diversions	<b>and Reporting</b>	

The above Projects demonstrate some of our Project-Specific and Project-Related experience and details a "one-stop shopping" solution for the Maben Preparation Plant and Refuse Pile Design Services project. Projects outlined in our attached AMLCCQQ provide more details on the above Projects as well as others completed by Stantec and our employees for the West Virginia Department of Environmental Protection AML and Special Reclamation Programs; the Ohio Department of Natural Resources AML Program; the West Virginia Conservation Agency; and others. Stantec also has employee experience with numerous Small Operators Assistance Program Applications for surface and deep mine applications in West Virginia and Maryland, as well as over 438 hydrologic investigations for Special Reclamation on bond forfeited sites, all involving hydrologic and geologic investigations and Probable Consequences of Mining in different geologic and hydrologic settings across the State.

Stantec can allot three (3) design teams to this project. Design Team leaders are: Gregory Linder, P.E., Will Thornton, P.E., and Randy Calkins, P.S. Each design team will have necessary support personnel CADD Operators, Staff Engineers, Survey Crews, and other support personnel to ensure the project is completed

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within WVDEP timeframes. In addition, Randy Calkins will serve as AML Corporate Manager to ensure the project achieves WVAML goals and is in compliance with WVAML standards.

We are very excited about the opportunity to continue our working relationship with the West Virginia Department of Environmental Protection and look forward to providing engineering services on this most important Project. We believe no other company can meet our quality of work, which, when coupled with our experience, allows us to be more efficient and therefore very cost competitive. Our Charleston office, in collaboration with our Buckhannon office, will respond quickly, effectively, and in the most economical way. If chosen, our primary objective will be to address WVAML needs complimented by other professionals in varying fields of expertise available on an "as needed" basis from our pool of over 8,700 professionals in Surveying and Mapping, Civil and Site Engineering, Geotechnical Engineering, and Construction.

Should any questions arise, or if we can supply additional information or be of further service to you, the Purchasing Division, or the West Virginia Department of Environmental Protection, please contact me anytime at (304) 472-7140.

Respectfully Submitted,

**STANTEC CONSULTING SERVICES INC. (Formerly R.D. Zande and Associates, Inc.)**



Dennis E. Miller, Principal

Tel: (304) 472-7140  
Fax: (304) 472-6239  
Dennis.Miller@stantec.com

Attachment: Stantec EOI for Maben Preparation Plant and Refuse Pile Design Services Project