

Wednesday, September 05, 2012

Proposal #12P132

State of West Virginia  
Department of Administration  
Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

RECEIVED

2012 SEP -6 AM 8:57

ATTN: Guy Nisbet

RE: IDIQ for Mapping Services in the Southern Counties  
Solicitation #DEP15938

WV PURCHASING  
DIVISION

Dear Mr. Nisbet:

Land & Mapping Services is pleased to provide these qualifications for professional aerial photography, photogrammetric and surveying services related to future West Virginia Department of Environmental Protection projects. Land & Mapping Services is strongly qualified to perform all of the tasks outlined in this solicitation.

Our abilities and staffing include:

- Multiple state-of-the-art fixed wing twin engine aircraft/camera platforms and a helicopter camera platform operated by experienced pilot/photographer crews. All platforms have GPS interfaces for airborne applications. Cameras are calibrated Zeiss DMC Digital Aerial Cameras and Leica RC30 film based cameras (based from hangers located in PA, MD, and WV).
- Multiple LiDAR Sensors including  
Trimble Harrier 68i and Optech Gemini Airborne LiDAR Mapping Sensors for terrain surface and obstruction surveys. LiDAR Sensors are part of entire mapping system including digital camera, flight control and management, final processing and manipulation of measured point files. Sensor can be mounted in fixed wing and rotary aircraft dependent on application and accuracy required.  
  
Cyrax Terrestrial Laser Scanners for detailed remote (3D) measurement of high walls and inaccessible surfaces. Cyclone 3D processing software is included with each station.
- Multiple (4+) fully equipped conventional survey parties with (1.0") robotic total stations, data collectors, digital levels, laptop computers and 4 Wheel Drive vehicles. Crews located in or within 100 miles of WV borders.
- Multiple GPS crews with state-of-the-art Trimble/Leica dual frequency and code based real time receivers. Multiple software seats and laptop computers for mobile processing/adjustments. Crews located in or within 100 miles of WV borders.
- Fully Analytical Digital Aerial Triangulation, projects managed by a Certified Photogrammetrist. Measurement by Intergraph ISDM AT Station, computing

and output done on a high end PC running Intergraph, Trimble and Albany adjustment software.

- Experienced map compilation staff of twenty (20) working two (2) production shifts compiling clean accurate digital maps on Cardinal Systems VR Softcopy stereo plotting instruments and ZI Imaging SSK Softcopy Work Stations. Mapping is compiled seamlessly utilizing Cadmap software by ZI Imaging an Cardinal VR Photogrammetric software. Output will match any supplied specifications.
- Experienced mapping edit/QC staff performing compiled map data conversion, edit and output. Staff includes several GIS analysts with extensive data translation and formatting experience (ARC-INFO).
- Voxel Ultra Scan 5000 Precision Aerial Film Scanner (4000 DPI) with capture and image handling software for image manipulation, compressing and output.
- Intergraph Image Station Ortho Pro or Cardinal VR Ortho Software for production of high quality digital ortho photos. IRAS/C and Descarte software allow for edit and output of ortho tiles.
- Multiple work seats each of Microstation, Autocad (Rel. 12 thru 2011); ARC-INFO, Terramodel and Civil Design suites of Softdesk and Eagle Point. Output mediums include CD, zip disk or transfer electronically by e-mail or FTP Protocol.
- Land & Mapping Services has available for this contract a strong administrative group of highly qualified professionals including ASPRS Certified Photogrammetrists and Registered Professional Land Surveyors (with registrations in 14 states including West Virginia for all important project management and supervision tasks.

### SERVICE AREA

Land & Mapping Services, LLC has successfully performed multiple projects throughout the United States in the past 15 years, many within the State of West Virginia. Please note the multiple state registrations for Professional Land Surveying (particularly West Virginia).

We look forward to a positive response to this submission and appreciate the opportunity to work with the Philadelphia District.

Sincerely,



James E. Pahel, P.L.S. (WV #724), C.P., P.S.M., R.P.P., S.P., GISP  
Project Manager/Partner

# *CURRENT PROJECTS*

## Project Facts

### **Client / Owner:**

**Allegheny Power/Allegheny Energy Service Corporation**

800 Cabin Hill Road  
Greensburg, PA 15601

### **Project Manager:**

Matt Urban  
(724) 837-3000

### **Project Name & Location:**

3 Yr. Open-end Professional Services Contract (2010 thru 2012)  
Aerial Surveying, Mapping, Volumetrics, Etc.  
Covering all Unregulated Facilities & Stations  
Including Six Power Plants and Eight Related Facility Sites

### **Products & Services Provided to Client:**

Color Aerial Photography  
Color Aerial Spot Shots and Obliques  
Color Photographic Lab Services  
Analytical Bridging  
Digital Photogrammetric Mapping  
Digital Orthos  
Volumetric Calculations

**Cost of Entire Project: Ongoing**

### **Sites:**

Armstrong  
Hatfield  
Mitchell  
Harrison  
Pleasants (McElroy's Run)  
R. Paul Smith  
Dam #4, 5 & 6  
Millville  
Warren  
Luray  
Newport  
Shenandoah  
AE Units 1, 2, 8, 9, 12, & 13  
Hunlock Unit

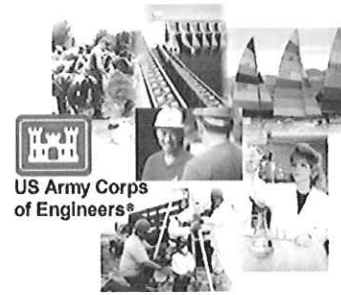


**New contract, additional aerial photos/pictures coming soon!**

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## Project Facts

**Project Engineer & Manager:**  
**U. S. Army Corps of Engineers**  
Pittsburgh District  
Moorhead Federal Building  
1000 Liberty Avenue, W.S., 21<sup>st</sup> Floor  
Pittsburgh, PA 15222-4186



**Teamed With:**  
**INCA / Gannett Fleming J.V.**  
400 112<sup>th</sup> NE, Suite 400  
Bellevue, WA 98004-5540

**Project Manager:**  
Amy Fattore (425) 732-5676

**Contract Duties & Locations:**  
Hydrographic Surveys, Engineering Surveys,  
Aerial Photography, Lab Services, Precision  
Aerial Film Scanning, GPS Location Services,  
Control Surveys, Photogrammetric Mapping,  
Cadastral Surveys, Laser Scanning and More.

Multiple Locations throughout the Pittsburgh  
District

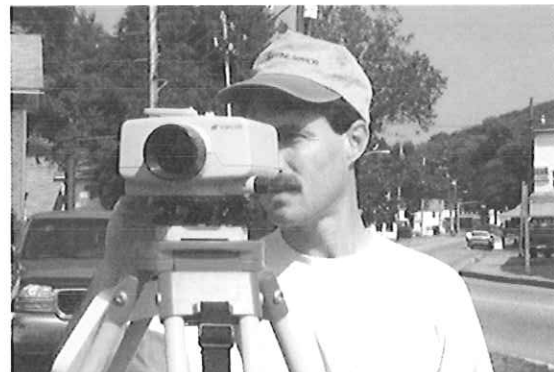
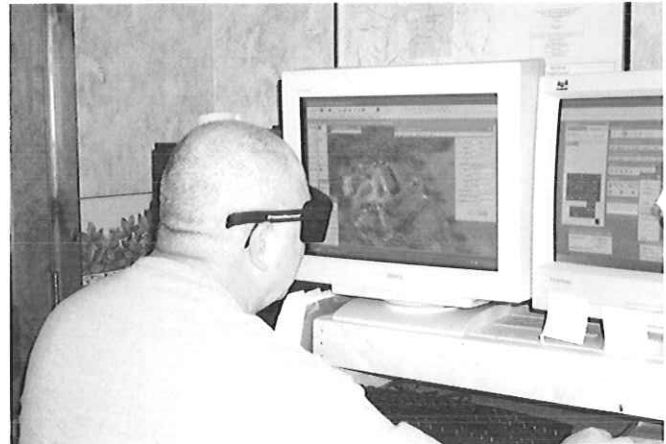
**Contract Award Number:**  
W911WN10D0003 / IDIQ for Engineering  
& Design Related Services

**Start Date:** December 2009

**Cost of Entire Project:** Unknown

**Total Contract Amount:** \$10 Million

**Nature of Firms Responsibility:**  
Land & Mapping Services, along with being a  
HUBZone Small Business Concern will also serve  
this contract in the capacity of surveying and  
mapping firm.



## Project Facts



**Project Owner / Engineer:**  
Kansas Department of Health and Environment  
Division of Environment  
Bureau of Environmental Remediation  
Surface Mining Section  
4033 Parkview Drive  
Frontenac, KS 66763

**Project Manager:**  
Fredrick Foshag  
(620) 231-8540

**Project Sites:**  
PAD-KS-0215, 0227, 0218, 0222,  
0229, 0232, 0231, 0232, 0377, 0388,  
0390, 0247, 0248, 0411, 0447, 0448,  
0449, 0489, 0490, 0493, 0494, 0488,  
0491, 0492, 0495, 0568, Sportsman's  
Pit, Lee Hurt Road and E. Mineral

**Type of Project:**  
Environmental Engineering

**Products & Services Provided  
to Client:**  
Aerial Photography, Lab  
Services, Fully Automatic  
Analytical Bridging and  
Digital Photogrammetric Mapping



**Cost of Entire Project: Unknown (\$150, 000+ L&MS)**

**Annual Contracts: 2006 thru 2011**



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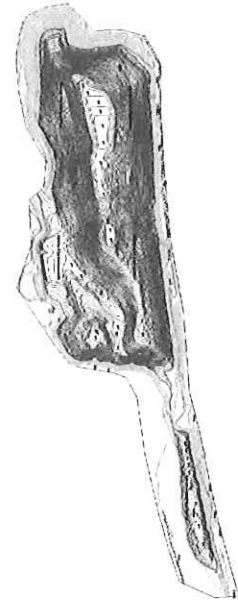
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## *Project Facts*

**Contract Owner: Alder Run Engineering**  
107 Coal Street  
Osceola Mills, PA 16666

**Client: Commonwealth of Pennsylvania**  
Department of Environmental Protection  
Bureau of Mining Programs  
Division of Environmental Analysis and Support  
P. O. Box 8461  
Harrisburg, PA 17105-8461

**Contract Number, Term & Location:**  
BMP PA (DES-11) Five-Year, State-Wide Open-End Contract



### **Types of Projects:**

Projects to include professional design services, feasibility studies and other technical services involved the development of plans used for the reclamation of abandoned mine lands.

### **Project Engineer / Manager:**

Michelle M. Merrow, P.E. / President (814) 339-6998

**Total Contract Amount: Unknown**

### **Nature of Firms Responsibility:**

Land & Mapping Services was contracted to provide Alder Run Engineering with a wide range of surveying and mapping services including; property surveys, engineering surveys, control surveys, hydrographic surveys, GPS services, aerial photography, precision film scanning, photographic products, analytical aerial triangulation, digital photogrammetric mapping, digital orthos and more.

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## *Project Facts*

**Owner:**

**PPL Generation, LLC**

Two North Ninth Street  
Allentown, PA 18101

**Contact Information:**

Andrew Spear, P.E. (610) 774-4135

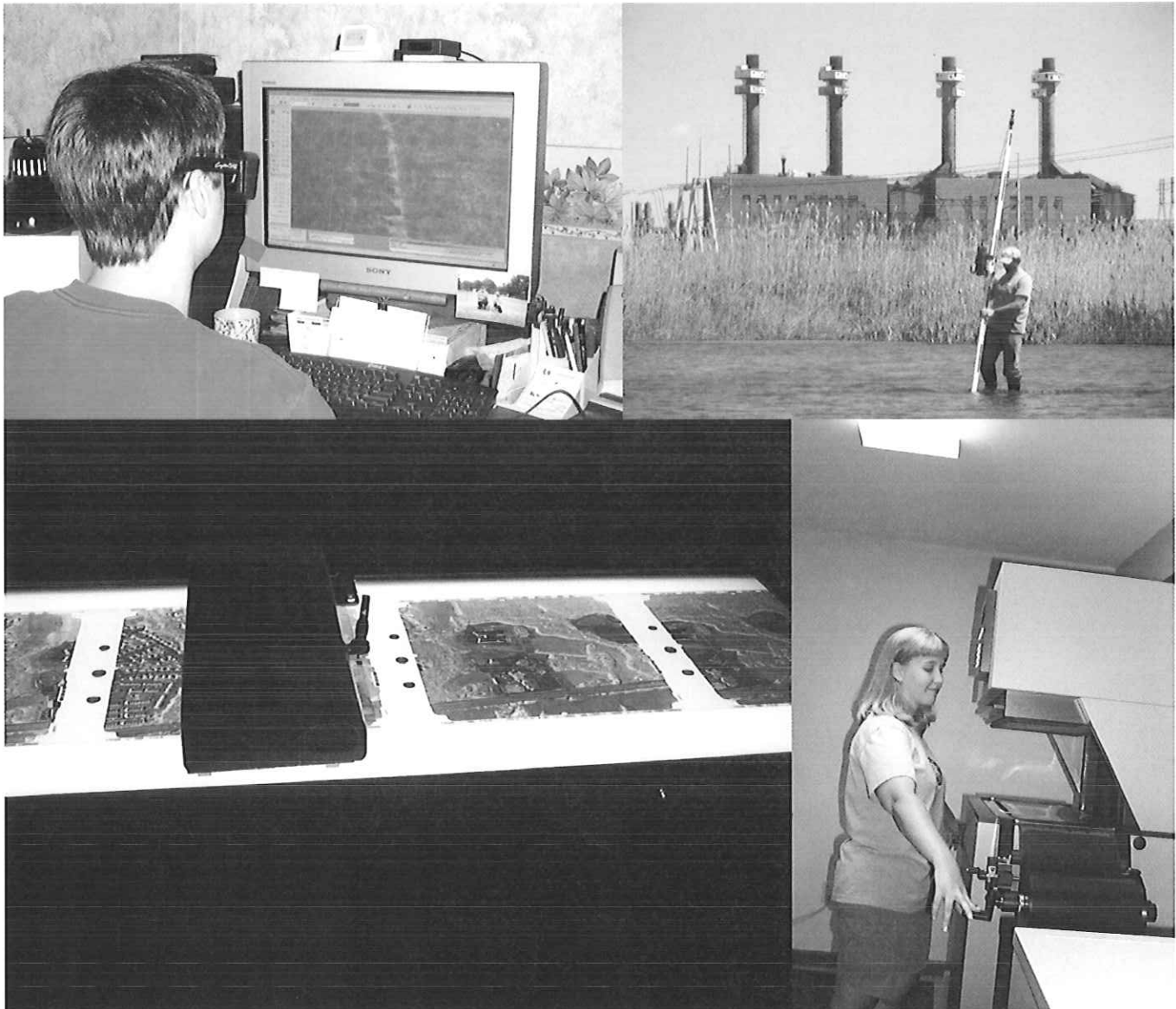
**Type of Projects:** Color aerial photography, photographic lab services, control surveys, analytical bridging, digital mapping and the generation of digital orthos.

**Sites:** Brunner Island York County, PA (335 acres mapped 2010)

Brunner Island Ash Site (153 acres mapped 2011)

Montour Plant Washingtonville, PA (555 acres mapped 2011)

Royal Manchester GC (135 acres mapped 2011)





# *PAST PROJECTS*

## Project Facts

### Project Name & Location:

**FBI Biometrics Technology Center**  
Clarksburg, WV

### Project Engineer & Manager:

**Tetra Tech EC, Inc.**  
820 Town Center Drive, Suite 100  
Langhorne, PA 19047-1748

**Contact: Matt Allen (215) 702-4000**

**Project Location: Clarksburg, WV**

**Owner: Federal Bureau of Investigation**  
Washington, DC

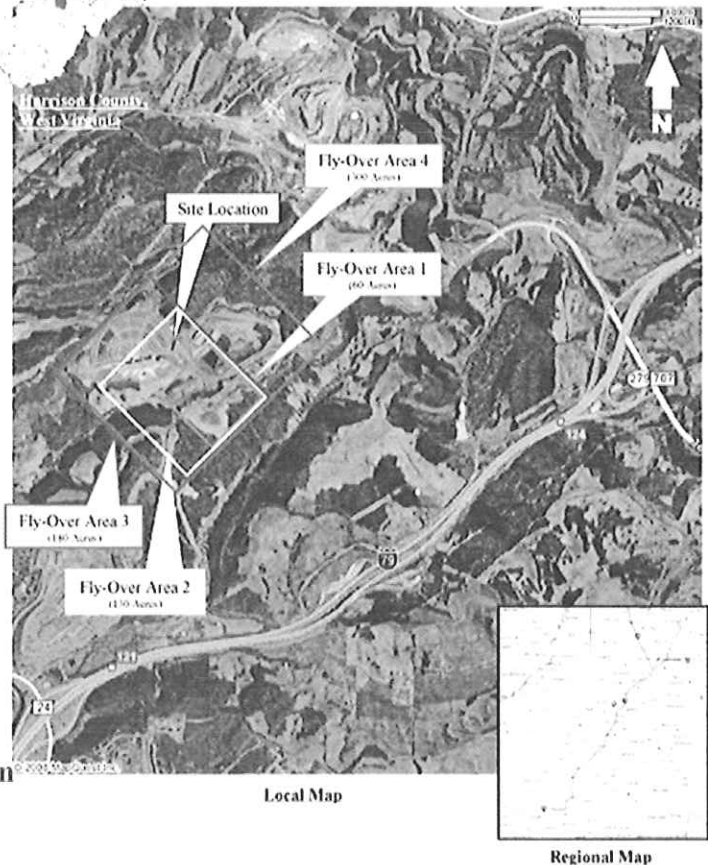
**Completion Date: Ongoing**

**Cost of Entire List Projects: Confidential**

**Work for Which the Firm Was Responsible:**

- Project Security Plan
- Color Aerial Photography
  - 1" = 333' & 400' Negatives
- Photographic Reproduction Products
- GPS Control Surveys & Monumentation
  - NAD 83 / NAVD 88
- Digital Photogrammetric Mapping
  - 1" = 100' Scale Mapping W/1' Contour Interval
- Color Digital Orthophotos
- 2D & 3D Engineering Surveys
- Soil Boring Hole Locations, Building Stake-out, Utility Location Surveys, Air-Lance Soil Vacuum "Soft-Dig" Services, Etc.

Figure 1. Site Location Map (Rev 1)



## Project Facts

### Project Names & Locations:

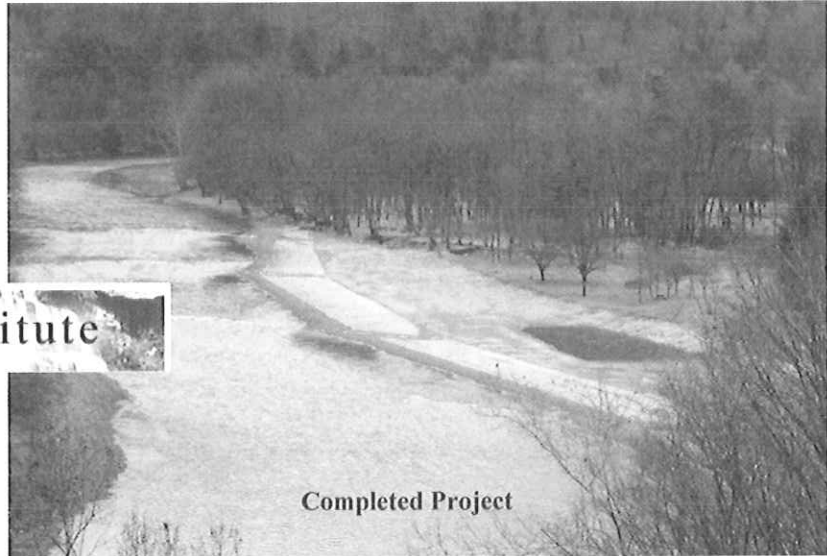
Bennett Branch of  
Sinnemahoning Creek  
Benezette Township  
Clearfield County  
Pennsylvania

### Project Manager:

**Canaan Valley Institute**

### Canaan Valley Institute & Bennett Branch Watershed Association

P.O. Box 99  
Benezette, PA 15821-0099  
Attn.: Larry Kestner



**Completion Date:** August 2000

**Cost of Entire Project:** \$170,000

### Nature of Firms Responsibility:

Aerial Photography, Photo Products, GPS Control & Mon., Stream Cross-sections,  
Analytical Bridging and Digital Photogrammetric Mapping

### Project Information:

Mapping Area: 40 to 50 Acres

Negative Scale: 1' = 300" or 1800' AMT

Control Survey: Horizontal NAD 83 / Vertical NGVD 29

Map Scale: 1" = 50' with a One (1) Foot Contour Interval

Final Output Format: AutoCAD DWG and Intergraph DGN



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## Project Facts

### **Project Names & Locations:**

Dents Run Watershed  
ACOE Section 206  
Ecosystem Restoration  
Benzette Township  
Clearfield County  
Pennsylvania

### **Project Sponsors:**

U. S. Army Corps of Engineers  
Baltimore District  
Western Pennsylvania Conservancy  
Bennett's Branch Watershed Association  
Pennsylvania Game Commission  
Pennsylvania Department of Conservation and  
Natural Resources  
Pennsylvania Department of Environmental Protection  
Bureau of Abandoned Mine Reclamation

**Completion Date:** 2012 (Estimated)

**Cost of Entire Project:** \$9.5 Million

**Work for Which Firm Was Responsible:**  
\$250,000 (Budgeted)

### **Nature of Firms Responsibility:**

Aerial Photography, Photo Products, GPS Control  
& Monumentation, Analytical Bridging and Digital  
Photogrammetric Mapping, Digital Orthophotos,  
Construction Stake-out, Property Surveys, Deed  
Descriptions and Right of Ways.

### **Project Information:**

**Mapping Area:** 1320 Acres

**Negative Scale:** 1' = 600"

**Control Survey:**

Horizontal NAD 88

Vertical NGVD 29

**Map Scale**

1" = 100' with a

Two (2) Foot Contour Interval

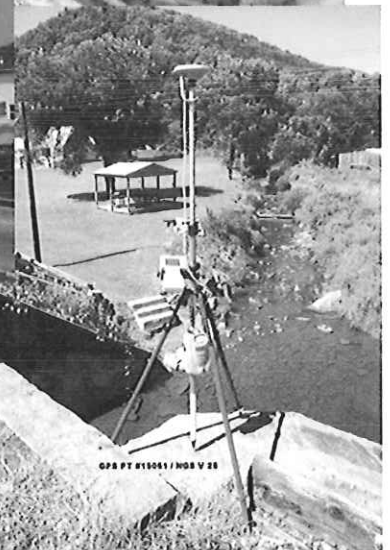
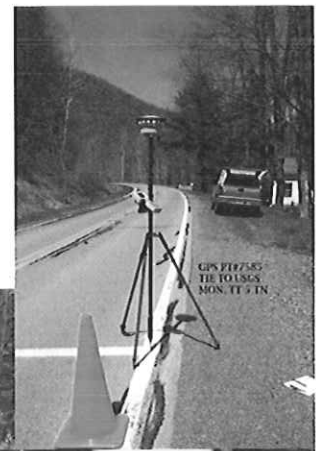
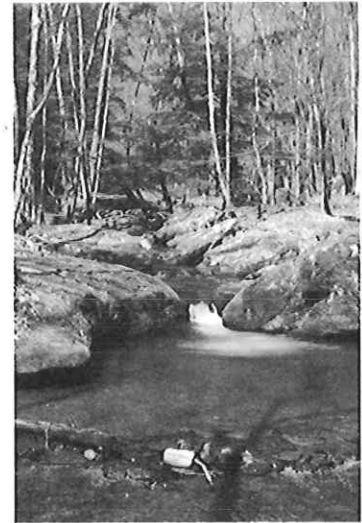
**Final Output Format**

AutoCAD DWG and

Intergraph DGN

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## Project Facts

**Project Engineer:**

**Advanced Hydro Solutions, LLC.**

150 North Miller Road  
Fairlawn, OH 44333 and

**Stantec**

3505 Butler Street  
Pittsburgh, PA 15201

**Project Manager:**

David C. Sinclair  
V (330) 869-8451

**Jennings  
Randolph  
Lake**

**Project Owner, Type, Project Name & Location:**

**U. S. Army Corps of Engineers**

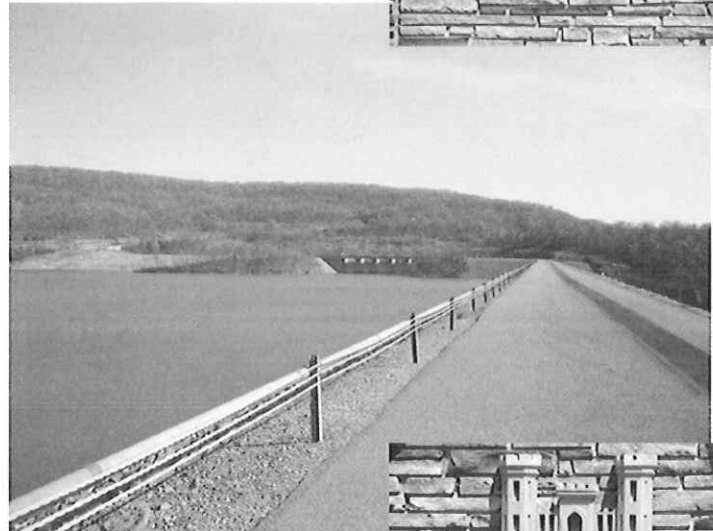
Jennings Randolph Dam

Study for Hydro Electric Project

North Branch of the Potomac River

Garrett County, MD

Mineral County, WV



**Project Developer:** Unknown

**Project Size & Shape:**

**Photogrammetric Mapping Area: 3,000' X 5,000'**

**Power Capacity: Unknown**

**Expected Output: Unknown**

**Total Project Cost: Unknown**

**Products & Services Provided to Client:**

**Vertical Black & White Aerial  
Photography**

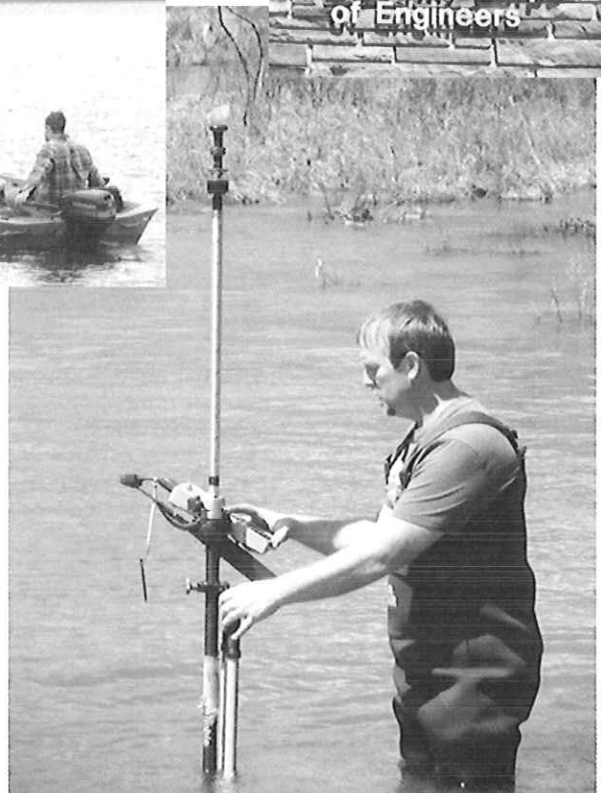
**Photographic Lab Services**

**GPS Photo Control & Site Monumentation**

**Analytical Bridging (2 Flight Lines, 10 Exposures Total)**

**Digital Photogrammetric Mapping @ 1" = 30' W/1' CI**

**Highly detailed hydrographic surveys via conventional survey, multi-beam and side-scan sonar of outflow channel and large area of impoundment.**



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## Project Facts

### Owner:

**Pennsylvania Department of Conservation and Natural Resources**

### Project Names & Locations:

**Multi-Year State Wide Contract**



### Types of Projects:

Projects involved everything from dam replacements & alterations including the mapping of twelve state parks.

### Products Provided to Client:

**Aerial Photography, Airborne GPS, GPS & Conventional Field Surveying, Engineering Surveys, Color Photographic Enlargements & Digital Photogrammetric Mapping**

### Sites That Have Been Completed:

**Sinnemahoning State Park & Surrounding Drainage Area (Total Mapping Area Over 7,000 Acres)**

<b>Cowans Gap State Park</b>	<b>French Creek State Park</b>
<b>Shawnee State Park</b>	<b>Keystone State Park</b>
<b>Raccoon Creek State Park</b>	<b>Worlds End State Park</b>
<b>Pymatuning State Park</b>	<b>Caledonia State Park</b>
<b>Whipple Dam State Park</b>	<b>Colonel Denning State Park</b>
<b>Kings Gap Environmental Education Center</b>	

### Work Also Completed Indirectly For:

**The Susquehanna River Basin Commission**

**Project Engineer: Roger Cook (717) 783-7943**

**Cost of Entire Project: Unknown**

### Work for Which Firm Was Responsible:

**\$600,000**

### Total Contract Amount:

**\$600,000**

### Nature of Firms Responsibility:

Land & Mapping Services was contracted to provide PA DCNR with a wide range of surveying and mapping services; Conventional Survey, GPS Code & Carrier Phase, Hydrographic Survey, Aerial Photography, Precision Film Scanning, Photographic Products, Analytical Aerial Triangulation, Preparation of Materials for Display at Public Meetings, Digital Photogrammetric Mapping and Hard Copy to Softcopy Conversion of Tax Parcel Maps. Digital Mapping was provided at 1"=100' W/2" CI & 1"=50' W/1"CI



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# *RESUMES*

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>James E. Pahel, P.L.S., C.P., P.S.M., R.P.P.</b>	13. ROLE IN THIS CONTRACT Chief Surveyor / Chief Hydrographer Chief Photogrammetrist / Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 39+	b. WITH CURRENT FIRM 14+
15. FIRM NAME AND LOCATION <i>(City and State)</i> Land & Mapping Services / Clearfield Pennsylvania Office			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Parkway West Area Technical School, Pennsylvania State University, Geneva College, Allegheny Community College, International Correspondence School & Others Certified Instructor Pennsylvania State Fire Academy in Rope, Rigging and High Angle Rescue		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Registered as a Professional Land Surveyor and/or Registered Photogrammetrist in the following 14 states; PA, NY, NJ, OH, KY, TN, WV, MD, DE, NC, SC, OR, VA & FL.	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Certified Photogrammetrist #929 by The American Society for Photogrammetry & Remote Sensing, Certified GPS Technician, Certified GIS Professional (GISP) & Certified Diver (Open Water, Mixed Gas & Others) Certified HAZWOPER Trained (24 Hour Field Technician) / Member of the Tri-County Hazmat Crew & Cameron County Incident response Team			

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S Army Corps of Engineers / Pittsburgh District Surveying, Hydrographic and Photogrammetric Mapping</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009 - 2014	CONSTRUCTION <i>(If applicable)</i> Unknown
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Working as a sub-contractor to INCA/Gannett Fleming, JV L&MS has completed: aerial photog., lab services, analytical bridging, monumentation, digital photogrammetric mapping, GPS & conventional control surveys and engineering surveys. All final output to current ACOE Spatial Data Standards.		
b. (1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Coast Guard / Cleveland Engineering Unit Pre-dredge Survey / Fishing Creek Annapolis, MD</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(If applicable)</i> Unknown
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Jim served this contract as project manager, hydrographer and boat operator. Work included the capture of seventy (70) cross sections, the generation of cross sections and cut volumes. Work was completed Tetra Tech, Inc. of Richmond, MI utilizing 16' Aluminum boat W/25 HP motor, DGPS receiver, Hypack MAX / HySweep navigation software and an Odom Hydrotrac echo sounder.		
c. (1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army Corps of Engineers / New York District IDIQ Surveying &amp; Hydrographic Survey Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006 to 2009	CONSTRUCTION <i>(If applicable)</i> Unknown
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Working as a sub-contractor to Aquatic Sciences, Inc. L&MS was contracted for: aerial photog., lab services, analytical bridging, monumentation, digital photogrammetric mapping, hydrographic surveys, GPS & conventional control surveys and engineering surveys. Final output to current ACOE Spatial Data Standards, multiple work orders completed to date.		
d. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Bennett's Branch Watershed Assoc. (for the U.S. ACOE) ACOE Section 206 Ecosystem Restoration Project</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES On Going	CONSTRUCTION <i>(If applicable)</i> Unknown
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Jim served as the professional in charge of all work completed on this project. Work included aerial flights, control of aerial mapping, project monumentation, photogrammetric mapping, engineering surveys, property surveys, ROW agreements, etc. Final products provided in MicroStation to strict client specifications. Budget Amount: \$250,000		
e. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Advanced Hydro Solutions, LLC Jennings Randolph Dam, WV &amp; MD</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> Unknown
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm L&MS provided Advanced Hydro Solutions, LLC with the following services: Aerial Photography, Lab Services, Analytical Bridging, GPS Control & Site Monumentation, Digital Mapping, Digital Ortho Photo's, Engineering Surveys, and Hydrographic Surveys (including multi-beam and side-scan sonar mapping).		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Jeffrey P. Gilmore</b>	13. ROLE IN THIS CONTRACT Partner / Office Manager Project QC/QA Chief	14. YEARS EXPERIENCE	
		a. TOTAL 35+	b. WITH CURRENT FIRM 14+
15. FIRM NAME AND LOCATION <i>(City and State)</i> Land & Mapping Services / Clearfield Pennsylvania Office			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Central Westmoreland Technical School Westmoreland County Community College / Assoc. Degree, Univ. of Pittsburg, Point Park Community College & Other		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>  None	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Certified GPS Operator

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Somerset Planning &amp; Engineering Services, LLC</b> <b>Savage Mountain Wind Farm / 6,500 Acres</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2009</b>	CONSTRUCTION <i>(If applicable)</i> <b>Unknown</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jeff was responsible for the day to day PM and QC/QA on this project. Work included: color aerial flights, airborne GPS, lab services, LiDAR data collection, analytical bridging, DEM point and brake-line collection, contour generation (2'), color ortho generation, completed under very tight time constraints.		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Selfridge Air National Guard Base / Selfridge, MI</b> <b>Aeronautical Survey of One Runway (Both Approaches)</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2008</b>	CONSTRUCTION <i>(If applicable)</i> <b>Unknown</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jeff was responsible for the day to day PM and QC/QA on this project. Work included everything from project planning to final map review. Specialty work included LiDAR data acquisition. Work included color aerial photography, lab services. GPS control surveys, location and ID of all airport facilities, analytical bridging, generation of color digital orthos, complete glide slope obstruction		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Sanborn (for U.S. Department of Defense)</b> <b>Photogrammetric Mapping of Four (4) Military Bases</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2007</b>	CONSTRUCTION <i>(If applicable)</i> <b>Unknown</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE L&MS provided Sanborn with softcopy analytical bridging (including airborne GPS and LiDAR data), DTM data collection and orthophoto generation of four (4) military bases. The bases included: Fort Beaufort Aux, Fort Le Jeune, Parris Island and Quantico. Work included bridging 1427 DMC images, DEM point collection of 385 stereo models and ortho generation of 278 tiles.		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Cabot Oil &amp; Gas Corporation</b> <b>North Central PA Operating Area / 240,000 Acre Project</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2009 to 2010</b>	CONSTRUCTION <i>(If applicable)</i> <b>Unknown</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jeff was responsible for the day to day PM and all QA/QC on this project. Work included everything from project planning to final map review. Specialty work included LiDAR of a 240,000 acre tract. Final output was color digital orthos at 1" = 200' at a 0.5' ground resolution via Geo.TIFF.		
e.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>URS / Potter County Wind Farm</b> <b>Potter County, PA</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2008</b>	CONSTRUCTION <i>(If applicable)</i> <b>Unknown</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jeff was responsible for the day to day PM and QC/QA on this project. Work included: color aerial flights, airborne GPS, lab services, LiDAR data collection, analytical bridging, DEM point and brake-line collection, contour generation (1'), color ortho generation, completed under very tight time constraints.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

<b>12. NAME</b> <b>Christopher J. Dumm, P.L.S.</b>	<b>13. ROLE IN THIS CONTRACT</b> Analytical Bridging Project Manager	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> 39	<b>b. WITH CURRENT FIRM</b> 12+
<b>15. FIRM NAME AND LOCATION (City and State)</b> Land & Mapping Services, LLC			
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> Bishop Carroll High School Ebensburg, PA General Business U.S. Army Signal Corp School of Photography FT. Mammoth		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Land Surveyor North Carolina & South Carolina	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<p><b>Advanced hydro Solutions, LLC</b> <b>U.S. ACOE Jennings Randolph Dam Mineral Co., WV</b></p> <p><b>a.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a subcontractor to Advanced Hydro Chris is acting as the firms project manager for all completed by our office located in Ebensburg, PA. Services to include: surveying monumentation, hydrographic surveys (conventional, multi-beam &amp; side-scan sonar), conventional &amp; fully automatic analytical bridging, digital photogrammetric mapping, and digital orthos.</p>	2010	Unknown
<input checked="" type="checkbox"/> Check if project performed with current firm		
<p><b>U.S. Army Corps of Engineers / New York District</b> <b>IDIQ Surveying &amp; Hydrographic Mapping Contract</b></p> <p><b>b.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE L&amp;MS is a subcontractor to Aquatic Sciences in this project and is providing all surveying and photogrammetry. Chris' involvement on these projects included: analytical bridging and digital map compilation. Final output was in MicroStation file format to U.S. ACOE specifications.</p>	2006 to 2009	Unknown
<input checked="" type="checkbox"/> Check if project performed with current firm		
<p><b>Tetra Tech EC, Inc. for FBI / Clarksburg, WV</b> <b>Expansion of the FBI Biometrics Technology Center</b></p> <p><b>c.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chris was responsible for all project management for this project. Work included: control surveys, monumentation, underground utility locations, construction lay-out, engineering surveys, air-lance soft-dig services, analytical bridging, digital orthos &amp; digital topographic mapping.</p>	2010	Confidential
<input checked="" type="checkbox"/> Check if project performed with current firm		
<p><b>Cabot Oil &amp; Gas Corporation</b> <b>North Central PA Operating Area / 240,000 Acre Project</b></p> <p><b>d.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chris was responsible for all analytical bridging work completed by our firm. Work included the analytical bridging of airborne controlled photography along with LiDAR of a 240,000 acre tract. Final output was color digital orthos at 1" = 200' at a 0.5' ground resolution via Geo.TIFF.</p>	2009 thru 2010	Unknown
<input checked="" type="checkbox"/> Check if project performed with current firm		
<p><b>Selfridge Air National Guard Base / Selfridge, MI</b> <b>Aeronautical Survey of One Runway (Both Approaches)</b></p> <p><b>e.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chris served as mapping supervisor for all work completed by our firm. Work included color aerial photography, lab services. GPS control surveys, location and ID of all airport facilities, analytical bridging, generation of color digital orthos, complete glide slope obstruction mapping out to 25,000 beyond land thresholds. Total mapping area 5,900+ acres. Submitted in AutoCAD &amp; ARC/INFO.</p>	2008	Unknown
<input checked="" type="checkbox"/> Check if project performed with current firm		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>James F. Pedrazzani, PLS</b>	13. ROLE IN THIS CONTRACT Survey Party Chief / Staff Geodesist / GPS Dept. Chief	14. YEARS EXPERIENCE	
		a. TOTAL 42+	b. WITH CURRENT FIRM 11+

15. FIRM NAME AND LOCATION *(City and State)*

Land & Mapping Services / Ebensburg Pennsylvania Office

16. EDUCATION *(DEGREE AND SPECIALIZATION)*

University of New Brunswick  
BS / Surveying / 1973  
Pennsylvania State University  
Assoc. Surveying technology / 1969

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

Professional Land Surveyor  
State of Pennsylvania License #SU-021169 / 1974  
State of Kentucky License #2772 / 1985  
Certified GPS Technician

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Jim is highly skilled in the operation of a wide variety of equipment and software types including: GPS, Trimble, GeoLab, digital levels, total stations, robotic total stations & data collectors & more.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Bennett's Branch Watershed Assoc. (for the U.S. ACOE) ACOE Section 206 Ecosystem Restoration Project</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On Going	CONSTRUCTION <i>(If applicable)</i> Unknown
a.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim was responsible for the collection and processing of all GPS related products on this project. Work included control of aerial mapping, project monumentation, engineering surveys, project Q & A (all field and related office work) and final output & report publication. Final products provided in MicroStation to strict client specifications. Budget for this phase: \$250,000	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Tetra Tech, Inc. for EPA Region III Surveying &amp; Photogrammetric Mapping</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(If applicable)</i> Unknown
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim was responsible for the collection and processing of all GPS related products on this project. Work included control of aerial mapping, project monumentation, engineering surveys, hydrographic surveys, project Q & A (all field and related office work) and report publication. Final products provided in MicroStation to strict client specifications. Total Billings: \$125,000	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army Corps of Engineers / New York District IDIQ Surveying &amp; Hydrographic Mapping Contract</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2006 thru 2009	CONSTRUCTION <i>(If applicable)</i> N/A
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE L&MS is a subcontractor to Aquatic Sciences on this IDIQ contract. Work to day has included the control of hydrographic surveying services along with the control and monumentation of photogrammetric mapping. Final output was in MicroStation file format to U.S. ACOE specifications. Work completed to date: \$250,000+ / Total contract value: \$3 million	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Williamsport Municipal Water Authority / ACOE System-wide Surveying &amp; Mapping</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2005 thru 2006	CONSTRUCTION <i>(If applicable)</i> Unknown
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim was responsible for all GPS related procedures including: GPS data collection planning, GPS data collection, data adjustment procedures, QC procedures, construction & output of final reports. All work completed to ACOE Data Standards. Total Contract: \$260,000	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S Fish &amp; Wildlife Service State College, PA Office / Work on six (6) project sites</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2000 to Date	CONSTRUCTION <i>(If applicable)</i> Unknown
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim was responsible for all GPS work completed on these projects. Work included GPS data collection, site monumentation, data processing and report publication. Total Contract Amount: \$75,000	<input checked="" type="checkbox"/> Check if project performed with current firm	

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME <b>Steven A. Dobo</b>	13. ROLE IN THIS CONTRACT <b>Manager of Photogrammetric Production</b>	14. YEARS EXPERIENCE	
		a. TOTAL 27	b. WITH CURRENT FIRM 14
15. FIRM NAME AND LOCATION (City and State) <b>Land &amp; Mapping Services / Clearfield Pennsylvania Office</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) East Detroit HS ~ Architectural Drafting West Branch Area HS ~ General Studies Clearfield County Vocational School 2 Year/Mechanical Drafting & Design		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>U.S. Army COE Louisville District IDIQ Surveying and Photogrammetric Mapping Contract</b>	2004 - 2007	Unknown
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Steve served as our Manager of Photogrammetric Production and as one of our lead compilers on this project. His responsibilities include the day to day management of the collection of 3D information including DTM/DEM data and point measurements utilized in the analytical bridging process. Total contract: \$3,000,000		
<b>U.S. Army Corps of Engineers / New York District IDIQ Surveying &amp; Hydrographic Mapping Contract</b>	2006 - 2009	Unknown
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Steve served as our Manager of Photogrammetric Production and as one of our lead compilers on this project. His responsibilities include the day to day management of the collection of 3D information including DTM/DEM's. Final output was in AutoCAD, ARC/INFO & MicroStation file format to strict client specifications.		
<b>Williamsport Municipal Water Authority Lycoming County, PA (for Baltimore ACOE)</b>	2005 - 2006	Unknown
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Steve served as our Manager of Photogrammetric Production and as one of our lead compilers on this project. His responsibilities include the day to day management of the collection of 3D information. Work included digital map production, DTM/DEM data collection, and contour generation for system wide GIS project. Total Contract: \$221,000 (2 <sup>nd</sup> Phase Only)		
<b>U.S. Army Corps of Engineers / Detroit District IDIQ Surveying &amp; Hydrographic Mapping Contract</b>	1989	Unknown
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Steve served as our Manager of Photogrammetric Production and as one of our lead compilers on this project. His responsibilities include the day to day management of the collection of 3D information including DTM/DEM data collection. Final output was in AutoCAD, ARC/INFO & MicroStation file format to strict client specifications.		
<b>Tetra Tech, Inc / Dushore-Loyalsock Creek Project For Baltimore District, ACOE</b>	2004	Unknown
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Steve served as our Manager of Photogrammetric Production and as one of our lead compilers on this project. His responsibilities include the day to day management of the collection of 3D information including DTM/DEM data collection. Mapping produced at 1" = 30' W/0.5' CI, digital orthos @ 0.4 ground resolution, final output in AutoCAD. Total Project: \$22,000		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Matthew Lingle</b>	13. ROLE IN THIS CONTRACT CADD & GIS Department Manager CADD & GIS QC/QA Chief	14. YEARS EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 14+
15. FIRM NAME AND LOCATION <i>(City and State)</i> Land & Mapping Services / Clearfield Pennsylvania Office			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Triangle Tech ~ Associates in Mechanical CAD Technology		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army COE Louisville District IDIQ Surveying and Photogrammetric Mapping Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004 - 2007	CONSTRUCTION <i>(If applicable)</i> Unknown
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a subcontractor to 3001, Inc. Joe served as our CADD & GIS manager for this project. His responsibilities include the day to day management of all CADD & GIS related work completed by L&MS. Digital map edit, digital orthos, survey drawing production, laser scanning modeling, etc. Total contract: \$3,000,000		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army Corps of Engineers / New York District IDIQ Surveying &amp; Hydrographic Mapping Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006 - 2009	CONSTRUCTION <i>(If applicable)</i> Unknown
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE L&MS is serving as a subcontractor to Aquatic Sciences, Inc. on this project. We will be providing all required surveying & photogrammetric services. Joe is our CADD & GIS manager; his responsibilities include the day to day management of all CADD & GIS related work. Final output was in AutoCAD, ARC/INFO & MicroStation file format to strict client specifications.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Williamsport Municipal Water Authority Lycoming County, PA (for Baltimore ACOE)</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2005 - 2006	CONSTRUCTION <i>(If applicable)</i> Unknown
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Joe served as our CADD & GIS manager for this project. His responsibilities include the day to day management of all CADD & GIS related work completed by L&MS. Work included digital mapping, DTM/DEM generation, cadd edit and ortho production for system wide GIS project. Total Contract: \$221,000 (2 <sup>nd</sup> Phase Only)		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army Corps of Engineers / Detroit District IDIQ Surveying &amp; Hydrographic Mapping Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 1989	CONSTRUCTION <i>(If applicable)</i> Unknown
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Joe served as our CADD & GIS manager for this project. His responsibilities included the day to day management of all CADD & GIS related work completed by L&MS. Final output was in AutoCAD, ARC/INFO & MicroStation file format to strict client specifications.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Tetra Tech, Inc / Dushore-Loyalsock Creek Project For Baltimore District, ACOE</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004	CONSTRUCTION <i>(If applicable)</i> Unknown
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Joe served as our CADD & GIS manager for this project. His responsibilities include the day to day management of all CADD & GIS related work completed by L&MS. Mapping produced at 1" = 30' W/0.5' CI, digital orthos @ 0.4 ground resolution, final output in AutoCAD. Total Project: \$22,000		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  <b>James C. Smith</b>	13. ROLE IN THIS CONTRACT <b>Imagery Interpretation Specialist Photographic Lab Manager</b>	14. YEARS EXPERIENCE	
		a. TOTAL 23	b. WITH CURRENT FIRM 12+
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Land &amp; Mapping Services / Clearfield Pennsylvania Office</b>			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Hempfield Area High School / 1984 General United States Marine Corps / 1984 thru 1994 Specialist in the following: Imagery, Interpreter, Radar & Electronics		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>  None	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
<b>National Fuel Gas Corporation System Wide Mapping &amp; GIS Conversion</b>	On Going	Unknown
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim completed and oversaw specific areas of production of a wide variety of the digital products that were produced for this client. This included: color & IR aerial photography, photo lab services, image interpretation, digital topographic & orthophoto generation, and more. Total contract: \$700,000+ (On Going)	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Tetra Tech, Inc Dushore-Loyalsock Creek Project (for Baltimore District)</b>	2004	Unknown
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim served as our photo lab manager, ortho department manager and image (data) collection specialist for this project. Mapping produced at 1" = 30' W/0.5' CI, digital orthos @ 0.4 ground resolution, final output in AutoCAD. Total Project: \$22,000	<input type="checkbox"/> Check if project performed with current firm	
<b>Seneca Resources Corporation Company-wide GIS System</b>	2002	Unknown
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim completed and oversaw the specific areas of production of a wide variety of the digital products that were produced for this client. This includes color IR aerial photography, photo lab services and image interpretation. Final output was in ARC/INFO file format. Total project: \$125,000+	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Williamsport Municipal Water Authority Lycoming County, PA (for Baltimore District, ACOE)</b>	2005 & 2006	Unknown
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim served as one of our image interpretation specialists on this project. His responsibilities include the production of both topographic and digital orthophoto mapping along with the management of the production of all photo products. Total Contract: \$221,000 2 <sup>nd</sup> Phase Only	<input type="checkbox"/> Check if project performed with current firm	
<b>U.S. Army COE Louisville District IDIQ Surveying and Photogrammetric Mapping Contract</b>	2004 - 2007	Unknown
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Jim completed and oversaw specific areas of production of a wide variety of the digital products that were produced for this client. This included: photo lab services, image interpretation, digital topographic & orthophoto product generation, and more. Total Contract: \$3,000,000	<input checked="" type="checkbox"/> Check if project performed with current firm	

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>E. Keith Wallace</b>	13. ROLE IN THIS CONTRACT <b>Senior CADD Technician &amp; CAD Drafter</b>	14. YEARS EXPERIENCE	
		a. TOTAL 26	b. WITH CURRENT FIRM 14
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Land &amp; Mapping Services / Clearfield Pennsylvania Office</b>			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Clearfield High School ~ General Studies		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> None	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army COE Louisville District IDIQ Surveying and Photogrammetric Mapping Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004 - 2007	CONSTRUCTION <i>(If applicable)</i> Unknown
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a subcontractor to 3001, Inc. Keith served as one of our lead compilers on this project. His responsibilities include the day to day collection of 3D information including DTM/DEM data and point measurements utilized in the analytical bridging process. Total contract: \$3,000,000		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army Corps of Engineers / New York District IDIQ Surveying &amp; Hydrographic Mapping Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006 - 2009	CONSTRUCTION <i>(If applicable)</i> Unknown
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Keith served as one of our lead compilers on this project. His responsibilities include the day to day collection of 3D information including DTM/DEM data and point measurements utilized in the analytical bridging process. Final output was in AutoCAD, ARC/INFO & MicroStation file format to strict client specifications.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Williamsport Municipal Water Authority Lycoming County, PA (for Baltimore ACOE)</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2005 - 2006	CONSTRUCTION <i>(If applicable)</i> Unknown
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Keith served as one of our lead compilers on this project. His responsibilities include the day to day collection of 3D information including DTM/DEM data and point measurements utilized in the analytical bridging process. Total Contract: \$221,000 (2 <sup>nd</sup> Phase Only)		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army Corps of Engineers / Detroit District IDIQ Surveying &amp; Hydrographic Mapping Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 1989	CONSTRUCTION <i>(If applicable)</i> Unknown
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Keith served as one of our lead compilers on this project. His responsibilities include the day to day collection of 3D information including DTM/DEM data and point measurements utilized in the analytical bridging process.		
<input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Tetra Tech, Inc / Dushore-Loyalsock Creek Project For Baltimore District, ACOE</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004	CONSTRUCTION <i>(If applicable)</i> Unknown
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Keith served as one of our lead compilers on this project. His responsibilities include the day to day collection of 3D information including DTM/DEM data and point measurements utilized in the analytical bridging process. Mapping produced at 1" = 30' W/0.5' CI, digital orthos @ 0.4 ground resolution, final output in AutoCAD. Total Project: \$22,000		
<input checked="" type="checkbox"/> Check if project performed with current firm		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Jenny L. Walstrom</b>	13. ROLE IN THIS CONTRACT Administrative Assistant Billing Clerk / Office Clerical	14. YEARS EXPERIENCE	
		a. TOTAL 26	b. WITH CURRENT FIRM 14
15. FIRM NAME AND LOCATION <i>(City and State)</i> Land & Mapping Services / Clearfield Pennsylvania Office			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> South Hill Business School State College, PA IJS Program		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> None	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army COE Louisville District IDIQ Surveying and Photogrammetric Mapping Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES On Going	CONSTRUCTION <i>(If applicable)</i> Unknown
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Served this contract as the administrative assistant and billing clerk. Additional work included the review and administration of all contractual requirements such as insurance coverage, tracking of sub-consultants contracts and billings. Reviewed the deliverables, handled all shipping and invoicing, tracked deliveries and percentage complete. Total contract: \$3,000,000		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. Army Corps of Engineers / New York District IDIQ Surveying &amp; Hydrographic Mapping Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006 - 2009	CONSTRUCTION <i>(If applicable)</i> Unknown
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Served this contract as the administrative assistant and billing clerk. Additional work included the review and administration of all contractual requirements such as insurance coverage, tracking of sub-consultants contracts and billings. Reviewed deliverables, handled all shipping and invoicing, tracked deliveries and percentage complete.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Millennium Power, Inc. / Three sites in Pennsylvania and One each in Ohio and West Virginia</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES On Going	CONSTRUCTION <i>(If applicable)</i> Unknown
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Served this contract as the administrative assistant and billing clerk. Additional work included the review and administration of all contractual requirements such as insurance coverage, tracking of sub-consultants contracts and billings. Reviewed the deliverables, handled all shipping and invoicing, tracked deliveries and percentage complete. Total Billings: \$250,000+		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>U. S. Fish &amp; Wildlife Service Pennsylvania Field Office / Multiple Contracts</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2000 to Date	CONSTRUCTION <i>(If applicable)</i> Unknown
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Served this contract as the administrative assistant and billing clerk. Additional work included the review and administration of all contractual requirements such as insurance coverage, tracking of sub-consultants contracts and billings. Reviewed the deliverables, handled all shipping and invoicing, tracked deliveries and percentage complete. Six projects completed to date.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Sanborn (for U.S. Department of Defense) Photogrammetric Mapping of Four (4) Military Bases</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007	CONSTRUCTION <i>(If applicable)</i> Unknown
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Served this contract as the administrative assistant and billing clerk. Additional work included the review and administration of all contractual requirements such as insurance coverage, tracking of sub-consultants contracts and billings. Reviewed the deliverables, handled all shipping and invoicing, tracked deliveries and percentage complete.		



*PRICE*

MAPPING SERVICES IN SOUTHERN COUNTIES OF WEST VIRGINIA  
OPEN-END CONTRACT  
DEP15938  
BID SCHEDULE

The DEP reserves the right to request additional and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

Item No.	Quantity	Description	Unit Price	Amount
1.0	700	2 - Man Surveying Crew (per hour)	\$ 124.00	\$ 86,800.00
2.0	225	3 - Man Surveying Crew (per hour)	\$ 162.00	\$ 36,450.00
3.0	280	Aerial Photograph Production (per sheet)	\$ 398.00	\$ 111,440.00
4.0		Topographic Mapping from Aerial Photography (per acre)		
		(List only one rate for each category)		
	500	0 - 50 Acres	\$ 24.00	\$ 12,000.00
	280	51 - 100 Acres	\$ 19.50	\$ 5,460.00
	202	101 and up Acres	\$ 12.75	\$ 2,575.00
5.0		Professional Rates (Listed Disciplines Only) (per hour)		
	250	Licensed Land Surveyor	\$ 82.00	\$ 20,500.00
	1100	CAD Operator	\$ 59.00	\$ 64,900.00
	200	Draftsperson	\$ 52.00	\$ 10,400.00
	125	Secretary	\$ 33.00	\$ 4,125.00
	150	Word Processor	\$ 33.00	\$ 4,950.00
6.0		Travel and Per Dlem		
	125	Per Diem (Rate/Person/Day)	\$ 69.00	\$ 8,625.00
				\$ 368,225.00

\*NOTE #1

\*NOTE #2

\* These are estimated quantities for bidding purposes only

\*NOTE #1: Significant discounts per exposure will be offered for multiple projects authorized for simultaneous flights and single projects of 4 + exposures


\*NOTE #2: Minimum topographic mapping fee will be \$798.00/site

**CERTIFICATION AND SIGNATURE PAGE**

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

Land & Mapping Services, LLC

(Company)

  
\_\_\_\_\_  
(Authorized Signature)

James E. Pahel, Partner/Owner

(Representative Name, Title)

814-765-9370      814-765-9372

(Phone Number)

(Fax Number)

9-5-12

(Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**

**SOLICITATION NO.:** DEP15938

**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 type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input 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.

Land & Mapping Services, LLC.  
Company

  
Authorized Signature

9-5-12  
Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.

RFO No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Land & Mapping Services LLC

Authorized Signature: [Signature] Date: 9-5-12

State of Pennsylvania

County of Clearfield, to-wit:

Taken, subscribed, and sworn to before me this 5<sup>th</sup> day of September, 2012.

My Commission expires Nov 29, 2012.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

**COMMONWEALTH OF PENNSYLVANIA**

Notarial Seal  
Dawn Tibbens, Notary Public  
Pike Twp., Clearfield County  
My Commission Expires Nov. 29, 2012

Member, Pennsylvania Association of Notaries