



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DEP15704

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**GUY NISBET
 304-558-8802**

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE
**LAND & MAPPING SERVICES, LLC
 300 N. SECOND ST.
 CLEARFIELD, PA 16830**

SHIP TO

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/22/2011				

BID OPENING DATE: **01/31/2012** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		962-52		
<p>OPEN END CONTRACT</p> <p>MAPPING SERVICES FOR NORTHERN COUNTIES OF WV</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF ABANDONED MINE LANDS AND RECLAMATION IS SOLICITING BIDS FROM QUALIFIED VENDOR'S FOR A OPEN-END CONTRACT TO PROVIDE MAPPING SERVICES IN THE NORTHERN COUNTIES OF WEST VIRGINIA PER THE FOLLOWING SPECIFICATIONS, TERMS AND CONDITIONS, BID REQUIREMENTS AND THE VENDOR'S SUBMITTED AND ACCEPTED BID SCHEDULE.</p> <p>THESE MAPPING SERVICES WILL RESULT IN THE DEVELOPMENT OF CONTRACT DOCUMENTS FOR DESIGN & CONSTRUCTION PROJECTS THROUGHOUT THE NORTHERN COUNTIES OF WEST VIRGINIA INDICATED HEREIN.</p> <p>INQUIRES:</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH THE CLOSE OF BUSINESS ON FRIDAY, JANUARY 13, 2012. QUESTIONS MAY BE SENT VIA: USPS, FAX, COURIER OR EMAIL. IN ORDER TO ASSURE THAT NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTION WILL BE ANSWERED ORALLY. IF POSSIBLE, EMAIL QUESTIONS ARE PREFERRED. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL WRITTEN</p>						

RECEIVED
 2012 JAN 31 A 10:11
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: **814-765-9370** DATE: **1-30-12**

TITLE: **PARTNER** FEIN: **20-8446985** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 DEP15704

PAGE
 2

ADDRESS CORRESPONDENCE TO ATTENTION OF
 GUY NISBET
 304-558-8802

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE
 LAND & MAPPING SERVICES, LLC
 306 N. SECOND ST.
 CLEARFIELD, PA 16830

SHIP TO

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/22/2011				

BID OPENING DATE: 01/31/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	QAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>ADDRESS INQUIRIES TO:</p> <p>GUY NISBET DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV. 25305 FAX: 304.558.4115 EMAIL: GUY.L.NISBET@WV.GOV</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AWARD..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 DEP15704

PAGE
 3

ADDRESS CORRESPONDENCE TO ATTENTION OF
 GUY NISBET
 304-558-8802

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SUPPLIER

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/22/2011				

BID OPENING DATE: 01/31/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
	(1) YEAR PERIODS.					
	<p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p>					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**Request for
 Quotation**

RFQ NUMBER
 DEP15704

PAGE
 4

ADDRESS CORRESPONDENCE TO ATTENTION OF
 GUY NISBET
 304-558-8802

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/22/2011				

BID OPENING DATE: 01/31/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 05/26/2009</p> <p>EXHIBIT 10</p> <p style="text-align: right;">REQUISITION NO.: DEP15704....</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 <input checked="" type="checkbox"/></p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**Request for
 Quotation**

RFQ NUMBER
 DEP15704

PAGE
 5

ADDRESS CORRESPONDENCE TO ATTENTION OF
 GUY NISBET
 304-558-8802

VENDOR


RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
12/22/2011				

BID OPENING DATE: 01/31/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>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.</p> <p style="text-align: center;">  SIGNATURE LAND + MAPPING SERVICES, LLC COMPANY 1-30-12 DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DEP15704

PAGE
7

ADDRESS CORRESPONDENCE TO ATTENTION OF
**GUY NISBET
 304-558-8802**

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/22/2011				

BID OPENING DATE: **01/31/2012** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** THIS IS THE END OF RFQ DEP15704 ***** TOTAL:						_____

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE		TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

LAND & MAPPING SERVICES

300 North Second Street, Clearfield, PA 16830
tel 814.765.9370 fax 814.765.9372

Monday, January 30, 2012

Proposal #12P019

State of West Virginia
Department of Administration
Purchasing Division, Building 15
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

ATTN: Guy Nisbet – Purchasing Department

RE: Mapping Services – Northern Counties of West Virginia (DEP15704)

Dear Mr. Nisbet:

Land & Mapping Services is pleased to provide this proposal for professional aerial photography, photogrammetric and surveying services related to the State of West Virginia DEP Contract No. DEP15704. Land & Mapping Services is strongly qualified to perform all of the tasks outlined in this scope of services.

Our project abilities and staffing include:

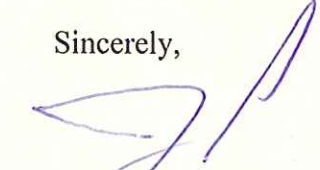
- Multiple state-of-the-art four (4) fixed wing twin engine aircraft/Leica RC30 camera platforms and a helicopter/RC30 camera platform operated by experienced pilot/photographer crews. All platforms have GPS interfaces for airborne applications;
- Two (2) fully equipped and expertly staffed photographic laboratories for processing aerial negatives and producing quality photographic reproductions, enlargements, reductions and composites;
- Three (3) fully equipped conventional survey parties with (1.0”) total stations, data collectors, digital levels, laptop computers and 4 Wheel Drive vehicles;
- Two (2) GPS crews with six (6) state-of-the-art Trimble dual frequency and two (2) code based real time receivers w/multiple (Geo Lab-Trimble) software seats and laptop computers for mobile processing/adjustments;
- Two (2) Cyrax Terrestrial Laser Scanners for detailed remote (3D) measurement of high walls and inaccessible surfaces. Cyclone 3D processing software is included with each station
- Fully Analytical Digital Aerial Triangulation, projects managed by a Certified Photogrammetrist. Reading on Intergraph ISDM AT Station, computing and output done on a high end Pentium PC running Intergraph and Albany F.A.A.T. software;

- Land & Mapping Services has experienced map compilation staff of twelve (12) working two (2) production shifts compiling clean accurate digital maps on seven (7) Cardinal Systems VR Softcopy stereo plotting instruments and two (2) ZI Imaging SSK Softcopy Work Stations. Mapping is compiled directly in design files using Cadmap software by ZI Imaging. Output will match any supplied specifications (WV/DEP);
- Mapping edit/plot staff of four (4) performing compiled map data conversion, edit and output (soft and hard copy) on seven (7) high end Pentium PC's and HP 2500 and 3500 series Design Jet Plotters;
- 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;
- Several work seats each of Microstation, Autocad (Rel. 12 thru 2011); PC 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 bulletin board;
- Land & Mapping Services has assembled a strong administrative group of highly qualified professionals including Certified Photogrammetrists and Registered Surveyors (in West Virginia) for all important project management and supervision tasks.

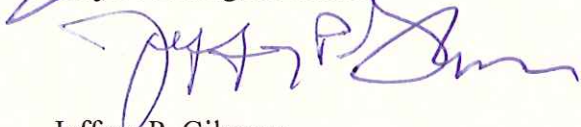
Our geographic location (Clearfield) in **Central Pennsylvania** and branch offices in Ebensburg and Emporium, will allow us to be responsive in a timely and efficient manner during the duration of the contract.

We look forward to a positive response to this letter of interest

Sincerely,



James E. Pahel, P.L.S., C.P.
Project Manager/Partner



Jeffrey P. Gilmore
Assistant Project Manager/Partner

1. The names of individuals performing work including registration/licensing numbers is attached
2. The list of similar projects completed by Land & Mapping Services, LLC is attached (5 total)
3. List of similar projects Land & Mapping Services, LLC is currently working on

Delaware Solid Waste Auth. - Cherry Island Landfill – Quarterly Landfill Update (2012)

PA Department of General Services – Boundary Retracement & Mark State Game Lands Addition (Clearfield Co.)

Northeast Maryland Solid Waste Auth. – Harford Co. and Cecil Co. Landfill Annual Updates (2012)

Stiffler, McGraw & Associates – Sewer Project Expansion – Allegheny Township, Blair Co.

Ohio Department of Natural Resources – Aerial Photography, Surveying and Mapping with Ortho Photo four Abandoned Mine Sites (2012)

Alder Run Engineering – As-Built Surveys of Two Constructed Mine Water Treatment Systems – North Central PA

4. The Project Manager will be James E. Pahel, P.L.S. (WV #724), C.P.
5. Land & Mapping Services has been performing this type of work for 15 years. Several staff to be assigned to this work have in excess of 25 years surveying and mapping experience

**Registered Professionals
of
Land & Mapping Services**

Name: James E. Pahel, P.L.S., C.P., P.S.M., R.P.P., S.P.

Title: Partner / Chief Surveyor / Chief Photogrammetrist

Education

Parkway West Area Technical School
Pennsylvania State University
Geneva College
Allegheny County Community College
International Correspondence School
Numerous Professional Seminars (3,000+ Hours)

L&MS



Professional Registrations

1979 Professional Land Surveyor ~ Commonwealth of Pennsylvania No. 028852-E
1981 Professional Land Surveyor ~ State of West Virginia No. 724
1985 Property Line Surveyor ~ State of Maryland No. 294
1985 Professional Land Surveyor ~ State of New Jersey No. 31065
1885 Professional Land Surveyor ~ State of Ohio No. 6979
1985 Professional Land Surveyor ~ State of New York No. 49733-1
1986 Professional Land Surveyor ~ Commonwealth of Kentucky No. 2862
1990 Professional Land Surveyor ~ State of Delaware No. 531
1994 Professional Land Surveyor and Mapper ~ State of Florida No. 5397
1995 Professional Land Surveyor ~ State of Tennessee No. 1722
1999 Professional Land Surveyor ~ State of North Carolina No. L-4074
2003 Professional Land Surveyor ~ State of South Carolina No. 22964
2008 Registered Professional Photogrammetrist ~ State of Oregon No. 80708
2009 Surveyor Photogrammetrist ~ Commonwealth of Virginia No. 04080000017



Certifications

Certified Photogrammetrist No. 929 by
The American Society for Photogrammetry & Remote Sensing
Certified GPS Technician and Diver ~ Certified Open Water, Mixed Gas & Others
10 Hour OSHA Certification & 24 Hour HAZWOPER ~ Technician / Specialist
Certified for Underground Utility Location (NFG)

Experience: 38+ Years

Name: James F. Pedrazzani, P.L.S

Title: Chief Geodesist / GPS Department Chief

Education

University of New Brunswick / BS / Surveying / 1973
Pennsylvania State University
Associates / Surveying Technology / 1969

Registrations

Professional Land Surveyor / State of Pennsylvania No. SU-021169-E / 1974
Professional Land Surveyor / State of Kentucky No. 2772 / 1985

Experience: 41+ Years



*The Registered Professionals
of
Land & Mapping Services
(Continued)*

Name: Robert M. Muschweck, P.L.S

Title: Professional Land Surveyor / Survey Party Chief

Education

Pennsylvania State University Assoc. Surveying Technology / 1972

Registration

Professional Land Surveyor ~ State of PA No. SU-034640-E

Experience: 42+ Years



Name: Christopher J. Dumm, P.L.S.

Title: Manager of Stereo Compilation & Analytical Triangulation
L&MS Ebensburg, PA Office

Education

Bishop Carroll High School Ebensburg, PA General Business
U.S. Army Signal Corp School of Photography FT. Mammoth
University of Maryland
Pennsylvania State University

Registrations

Professional Land Surveyor State of North Carolina No.L-4082 / 2000
Professional Land Surveyor State of South Carolina No. 245299

Experience: 38+ Years



Land & Mapping Services

"Providers of the most technologically advanced solutions available in the industry today."

Core Products & Services

Photogrammetry (Digital Mapping, Orthophotos, Etc.), • GPS (Single, Dual Frequency and Airborne)
Hydrographic & Volumetric Surveys • LIDAR (Laser Scanning & Modeling)
GIS / LIS (Base Mapping to System Design) • Scanning (Precision Aerial Film, Document & Drawing)
Boundary Location Surveys • Land Development • Cadd Services • Forest Land Management

Office Locations

Clearfield, PA (Main Office) • Ebensburg, PA • Emporium, PA

Employees (Partial Listing)

Partners: Jeffrey P. Gilmore & James E. Pahel, P.L.S., C.P., P.S.M.

Office Managers: Steven E. Dobo (Clearfield) & Chris J. Dumm, P.L.S. (Ebensburg)

Administration: Thelma J. Pahel, Jennifer L. Walstrom & Shawn Veach

Stereo Compilers, Digital Orthophoto & Analytical Bridging Specialists: Steven E. Dobo, Benjamin J. Dumm, Chris J. Dumm, Nicholas C. Drumm, Michael M. Devich, III, Robert F. Horvath, Robert W. Horvath, Jacquelyn D. Hubler, Regina L. Jackson, Kathryn J. Roberts, Shanna R. Shofestall, James E. Smith, Matthew C. Valko, E. Keith Wallace, Matt C. Valko & Andrew I. Zadzilko

Cadd & GIS Systems Technicians: James E. Smith, Jr., Matt W. Lingle & Joseph A. Matsko

Lab Technicians: James E. Smith & Faith Gilmore

Registered Professional Land Surveyors: Chris J. Dumm, Robert M. Muschweck, James E. Pahel and James F. Pedrazzani

States of Registration: PA, OH, NY, NJ, DE, WV, MD, VA, IN, NC, SC, FL, KY & TN

Non-Registered Land Surveyors: Daniel C. Anderson, Bradley J. Pahel, Hayes Bickel & James E. Smith

Certified GPS Technicians: James E. Pahel, P.L.S., Jeffrey P. Gilmore & James F. Pedrazzani, P.L.S.

Certified Photogrammetrist: James E. Pahel, P.L.S., C.P., P.S.M.

Land & Mapping Services

300 North Second Street
Clearfield, PA 16830
V (814) 765-9370
F (814) 765-9372

Land & Mapping Services

117 South Center Street
Ebensburg, PA 15931
V (814) 472-5596
F (814) 472-5606

Land & Mapping Services

22448 CCC Memorial Highway
Emporium, PA 15830
V (814) 486-3684
F (814) 486-0668

Email: landmap@atlanticbb.net

Web site: www.landandmapping.com

Professional Land Surveyors • Consulting Foresters • Photogrammetrists

Project Facts

Project Names & Locations:

Pennsylvania Department of Environmental Protection

Bureau Acid Mine Reclamation

Site #CN 01-14 "Murdock Site"

Brothers Township

Somerset County, PA

Client & Project Manager:

Barton Aerial Technologies

6530 Single Tree Drive

Columbus, OH 43229

Dwaine Barton, C.P.

(614) 844-6277

Cost of Entire Project: Unknown

Work for Which Firm Was Responsible: \$6,800

Project Completion Date:

February 2002

Nature of Firms Responsibility:

GPS Control of Photogrammetric Mapping

All work completed in Pennsylvania Plane Grid and USGS/NGS Vertical Datum

Baseline Control & Monumentation

Hydrographic Surveys

Equipment Utilized:

Trimble 5700 Dual frequency Receivers

14' Boat W/12 Volt Electric Motor

Model 448 Thermal Survey Sounder

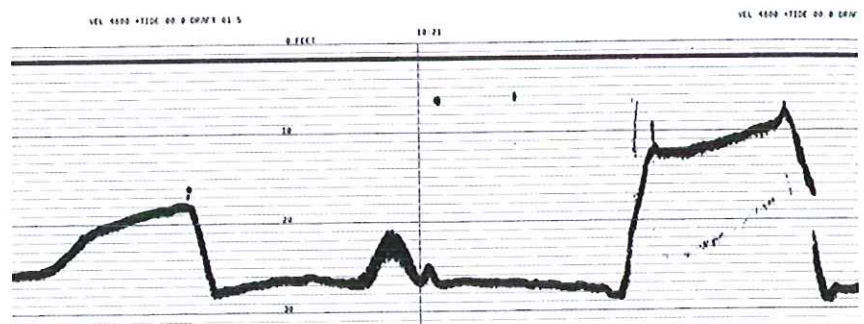
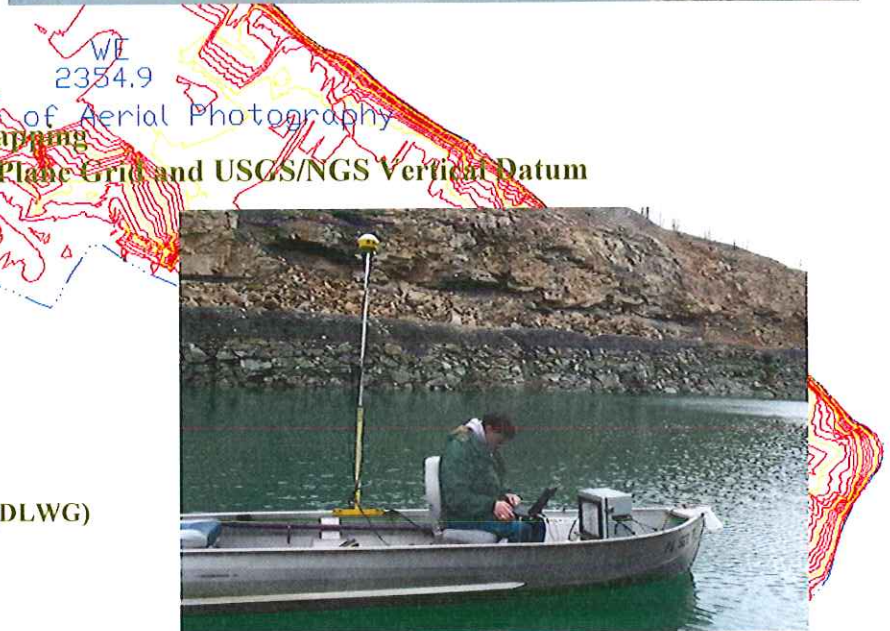
208 KHz 8 Degree Transducer

Field Laptop Computer

W/Guidance and Data Collection Software (DLWG)

Trimble AgGPS 132

W/Omnistar Differential Receiver
and USGS Beacon Receiver



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

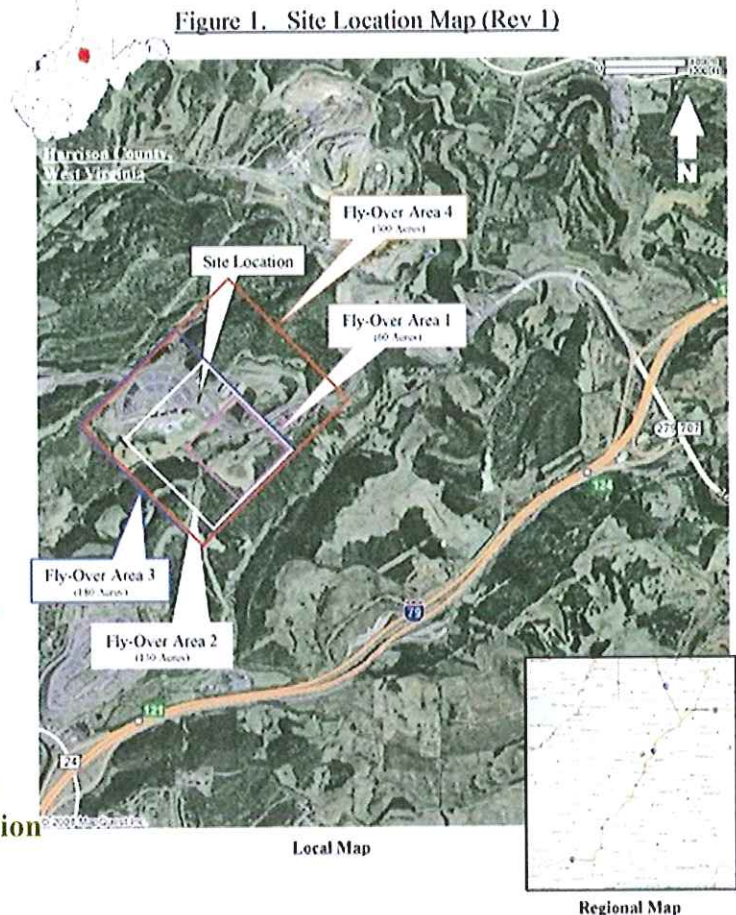
Completion Date: Ongoing

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:

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

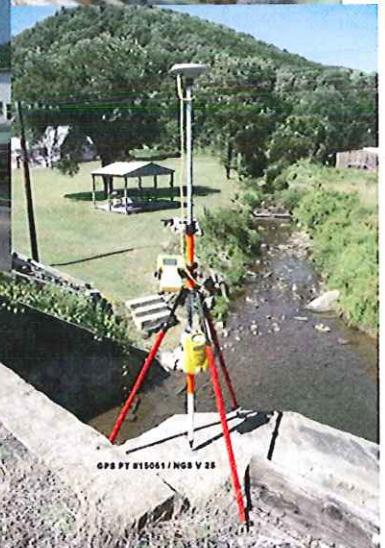
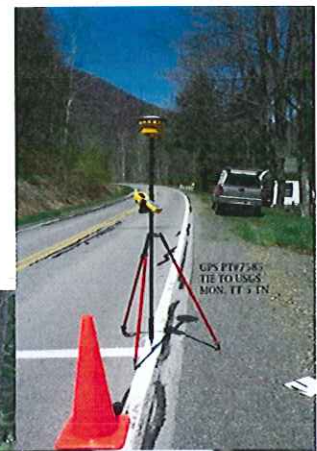
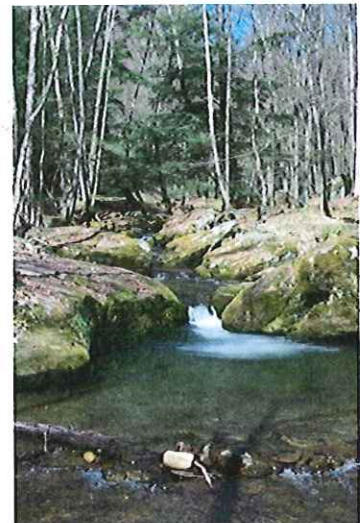
Two (2) Foot Contour Interval

Final Output Format

AutoCAD DWG and

Intergraph DGN

Land & Mapping Services, LLC
1(888) LMS-0027



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



Land & Mapping Services, LLC
1(888) LMS-0027

Copyright © 2010 Land & Mapping Services

Project Facts

Project Engineer:

Pedersen & Pedersen

441 Mars-Valencia Road
Valencia, PA 16046

Project Manager:

James Greene
(724) 625-1329

Project Name & Location:

“The Highlands”
Ohio County, WV

Project Owner:

Ohio County Development Authority
1500 Chapline Street, Room 215
Wheeling, WV 26003

Project Type:

Retail Construction (Large Box Market)

Products & Services Provided to Client:

Color Aerial Photography, Color Aerial Spots, Lab Services, Analytical Bridging, Conventional Digital Photogrammetric Mapping, and Digital Ortho's.

Negative Scale: 1"= 400'

Photography Area: 7,500+ Acres

Mapping Area: 1,100 Acres

Digital Ortho's W/0.3' Pixel

Cost of Entire Project: Unknown

PEDERSEN & PEDERSEN

