



Corporate Headquarters

108 West Airport Road

Lititz, PA 17543

T 717.569.7021

F 717.560.0577

www.thearrogroup.com

January 28, 2021

PA Public Utilities Commission, Secretary
Commonwealth Keystone Bldg.
400 North Street, 2nd Floor, Room 01
Harrisburg, Pa 17120

RE: Act 12 of 2016 (HB1326)
M-2016-2543193
Utility Valuation Experts

Dear Secretary:

In accordance with the above referenced Act the Public Utility Commission (PUC) is responsible for maintaining a list of qualified Utility Valuation Experts.

ARRO Consulting, Inc. would like to submit our renewal application as a qualified Utility Valuation Experts.

ARRO Consulting, Inc. has been serving private and public utilities for over 60 years in the mid-Atlantic region and has acquired a wealth of intellectual capital that crosses over all engineering disciplines.

Enclosed you will find our Company's and its executive staff's background and experience relating to all aspects of the water and wastewater industry in the State of Pennsylvania.

Should the PUC have any questions, or require additional information, please contact the undersigned at 717.560.6060 or e-mail at terri.ness@arroconsulting.com.

Sincerely,

A handwritten signature in blue ink that reads "Therese A. Ness".

Therese A. Ness
Proposal Coordinator

Attachments

cc: Office of Consumer Advocate (w/ATTACHMENTS)
Office of Small Business Advocate (w/ATTACHMENTS)



January 28, 2021

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UPS – NEXT DAY DELIVERY

Secretary, Pennsylvania Public Utilities Commission
400 North Street, 2nd Floor
Harrisburg, Pa 17120

RE: Application of ARRO Consulting, Inc. to Register as a Utility Valuation Expert at Docket No. A-2019-3006879

Dear Secretary:

In response to your email dated January 27, 2021 we are enclosing the requested information for the Commission to complete its analysis of the filing of the docket number listed above.

Should the PUC have any questions, or require additional information, please contact me at 717.560.2767 or matthew.warfel@arroconsulting.com.

I, Matthew D. Warfel, P.E., hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18. PA. C.S. § 4904 (relating to unsworn falsification to authorities).

Signature	<u>Matthew D Warfel</u>
Title	<u>Executive Vice President/Chief Operating Officer</u>
Date	<u>January 28, 2021</u>

Sincerely,

Matthew D. Warfel, P.E.
Executive Vice President/Chief Operating Officer

MDW:tan

Attachments

cc: Office of Consumer Advocate (w/ATTACHMENTS)
Office of Small Business Advocate (w/ATTACHMENTS)



BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

In Re: Application of ARRO Consulting, Inc. to register as an
Utility Valuation Expert (UVE) in the Commonwealth of
Pennsylvania

Docket No: M-2016-2543193

Check one:

Fee: x \$125 fee enclosed

- Initial Application
- Renewal Application

1. Legal Name of the Applicant: ARRO Consulting, Inc.

Attach proof of compliance with appropriate Pennsylvania Department of State filing requirements.²

2. Trade or Commercial or Fictitious Names Used by Applicant (d/b/a):

Check this box if the Applicant will not be using a fictitious name.

Check this box if the Applicant will be using a fictitious name or using a d/b/a (doing business as) another name and identify names below. If more space is needed, list names on the back of this page or append list to completed application.

3. Applicant Address:

Street Name & Number: 108 West Airport Road

Post Office Box: _____

City: Lititz

State: PA

Zip Code: 17543

Telephone Number: 717.569.7021

Email Address: _____

Website Address: www.arroconsulting.com

² A copy of any document from the Pennsylvania Department of State (Pa. Dept. of State) documenting the Applicant's Pa. Dept. of State entity number is adequate. However, the document must indicate that the Applicant's Pa. Dept. of State registration is "active." Certified copies of Pa. Dept. of State documents are not required.

Application for Registration as a Utility Valuation Expert (UVE)

4. Point of Contact for this Application:³Name: Matthew D. Warfel, P.E.Title: Executive Vice President, Chief Operating Officer*Complete the following if different than above:*

Street Name & Number: _____

Post Office Box: _____

City: _____

State: _____

Zip code: _____

Telephone Number: 717.560.2767Email address: Matthew.warfel@arroconsulting.com

5. Parent & Subsidiary Companies & Affiliates:

Parent Name and Contact Information. Provide name and contact information for parent company. Check box if any parent company is currently doing business in Pennsylvania as a UVE or WWDC. If none, do not check the box; insert NONE below.

Parent Name: The ARRO GroupStreet Name & Number: 108 West Airport Road

Post Office Box: _____

City: LititzState: PAZip Code: 17543Telephone Number: 717.569.7021

Email Address: _____

Website Address: www.arroconsulting.com

Subsidiaries and Contact Information. Provide name and contact information for all subsidiary companies. Check this box if any subsidiary is currently doing business in Pennsylvania as a UVE or WWDC. If none, do not check the box; insert NONE below.

Subsidiary Name: ARRO Consulting, Inc.Street Name & Number: Same as above

Post Office Box: _____

City: _____

State: _____

Zip Code: _____

Telephone Number: _____

Email Address: _____

Website Address: _____

(Copy above information and paste on separate sheet as necessary for additional Subsidiaries)

³ PLEASE NOTE: Upon approval of this application, this Contact Information will be listed on the Commission's UVE Registry.

Application for Registration as a Utility Valuation Expert (UVE)

- Affiliates and Contact Information.* Provide name and contact information for all affiliated companies. Check box if any affiliate is currently doing business in Pennsylvania as a UVE or WWDC. If none, do not check the box; insert NONE below.

Affiliate Name: None
 Street Name & Number: _____
 Post Office Box: _____
 City: _____
 State: _____
 Zip Code: _____
 Telephone Number: _____
 Email Address: _____

(Copy above information and paste on separate sheet as necessary for additional Affiliates)

6. **Contracts & Business Partnerships:**

- Check box if Applicant intends to or has operated under contract with or has partnered with an WWDC within the past five (5) years. Otherwise, insert NONE here: _____.
- Check box if Applicant intends to or has operated under contract, subcontracted or partnered with a UVE within the past five (5) years. Otherwise, insert NONE here: NONE.

If applicable, provide name(s) of WWDC(s) and UVE(s) and contact information for each and briefly describe the nature of business services associated with each contract and/or partnership. Attach additional pages as needed.

See ATTACHMENT B

7. Identify principal officers (i.e., owners, executives, partners and/or directors, etc.), as appropriate for Applicant's organizational structure. Provide an organizational chart and the names, titles, business addresses and telephone numbers for each office.

See ATTACHMENT C

8. Attach to this Application a brief biography or single page professional resume for all principal officers and management directly responsible for Applicant's operations.

See ATTACHMENT D

9. Provide Applicant's Federal Employer Identification No. (EIN): 23-2193798

Application for Registration as a Utility Valuation Expert (UVE)

10. Registered Agent N/A

- a. If the Applicant does not maintain a principal office in the Commonwealth, the Applicant is required by the Pennsylvania Department of State to designate an approved Registered Agent as its representative in the Commonwealth. Check one of the boxes below, as applicable:

YES, the Applicant has registered its business with the Pennsylvania Department of State. Following is the Name and Contact information for the Applicant's Registered Agent approved by the Pennsylvania Department of State.

Registered Agent: _____
 Street Name & Number: _____
 Post Office Box: _____
 City: _____
 State: _____
 Zip Code: _____
 Main Telephone Number: _____
 Email Address: _____
 Website Address: _____

NO, the Applicant has not registered its business with the Pennsylvania Department of State.



STOP—To avoid denial of your application and forfeiture of your application fee, contact the Pennsylvania Department of State Bureau of Corporations to register as a business entity within the Commonwealth PRIOR TO completion and filing of this application with the Pennsylvania Public Utility Commission.

- b. Applicant has registered its business with the Pennsylvania Department of State. Please check appropriate registration type for Applicant as designated with the Department.

- Sole proprietor
 Domestic corporation (none)
 Domestic general partnership
 Domestic limited liability company
 Domestic limited liability partnership
 Foreign corporation
 Foreign general or limited partnership
 Foreign limited liability company
 Foreign limited liability general partnership
 Foreign limited liability limited partnership

Application for Registration as a Utility Valuation Expert (UVE)

c. If Applicant is not domiciled in the Commonwealth of Pennsylvania and is registered as a "foreign" entity as identified above, please identify all other states where applicant is registered and name the appropriate state department(s):

11. Technical Fitness

Attach to this Application a copy of any certification(s) or similar documentation that would demonstrate the technical fitness of Applicant, such as professional licenses, technical certifications, and/or names of current or past clients with a description of dates and types of services provided by Applicant.

See ATTACHMENT E

12. Falsification

The Applicant understands that the making of false statement(s) herein may be grounds for denying the Application, or if later discovered, for revoking any authority granted pursuant to the Application. This Application is subject to 18 Pa. C.S. §§4903 and 4904, relating to perjury and falsification in official matters.

Signature of Principal Official: Matthew D Warfel

Official's Name & Title : Matthew D. Warfel, P.E.
(Please Print) Executive Vice President, Chief Operating Officer

Date: January 27, 2021

Application for Registration as a Utility Valuation Expert (UVE)

APPENDIX A

AFFIDAVIT

[Commonwealth/State] of Pennsylvania:

County of Lancaster :

ss.

Matthew D. Warfel, Affiant, being duly sworn or affirmed according to law, deposes and says that:

Affiant is the Executive Vice President, Chief Operating Officer (Office of Affiant) of ARRO Consulting, Inc. (Name of Applicant);

That Affiant is authorized to and does make this affidavit for said Applicant;

That ARRO Consulting, Inc., the Applicant herein, has the burden of producing information and supporting documentation demonstrating technical fitness to be registered as a Utility Valuation Expert pursuant to Section 1329. 66 Pa. C.S. § 1329.

That ARRO Consulting, Inc., the Applicant herein, acknowledges that it has answered the questions on the application correctly, truthfully and completely and has provided supporting documentation as required.

That ARRO Consulting, Inc., the Applicant herein, acknowledges that it is under a duty to update information provided in answer to questions on this application and contained in supporting documents.

That ARRO Consulting, Inc., the Applicant herein, verifies that neither the UVE nor the UVE's firm, including affiliates, have a conflict of interest that would compromise, or have the appearance of compromising, the UVE's professional judgement and ability to perform the valuation in an unbiased manner.

That the facts above set forth are true and correct to the best of Affiant's knowledge, information, and belief, and that Affiant expects said Applicant to be able to prove the same at hearing.

Commonwealth of Pennsylvania - Notary Seal
Ann C. Brightbill, Notary Public
Lancaster County
My commission expires April 23, 2023
Commission number 1290177

Member, Pennsylvania Association of Notaries

Matthew D Warfel
Signature of Affiant

Sworn and subscribed before me this 28 day of January, 2021.

Ann C. Brightbill
Signature of official administering oath

My commission expires: 4/23/2023.



ATTACHMENT A

Search entity / Select entity / Order documents

Order Business Documents ?

Date: 01/27/2021

Business Name History

Name	Name Type
ARRO CONSULTING, INC.	Current Name

Business Entity Details

Name	ARRO CONSULTING, INC.
Entity Number	748233
Entity Type	Business Corporation
Status	Active
Citizenship	Domestic
Entity Creation Date	01/27/1982
Effective Date	01/27/1982
State Of Inc	PA
Address	108 West Airport Road Lititz PA 17543 Lancaster

Officers

Name	BL FLAHARTY
Title	VICEPRESIDENT
Address	
Name	G MATTHEW BROWN
Title	PRESIDENT
Address	108 W AIRPORT RD LITITZ PA 17543-9272
Name	SUSAN L LONG
Title	SECRETARY
Address	108 W AIRPORT RD LITITZ PA 17543-9272
Name	SUSAN L LONG
Title	TREASURER
Address	108 W AIRPORT RD LITITZ PA 17543-9272

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF STATE

JUNE 4, 2014

TO ALL WHOM THESE PRESENTS SHALL COME, GREETING:

I DO HEREBY CERTIFY THAT,

ARRO CONSULTING, INC.

Is duly incorporated as a Pennsylvania Corporation under the laws of the Commonwealth of Pennsylvania and remains a subsisting corporation so far as the records of this office show, as of the date herein.

I DO FURTHER CERTIFY THAT, This Subsistence Certificate shall not imply that all fees, taxes, and penalties owed to the Commonwealth of Pennsylvania are paid.



IN TESTIMONY WHEREOF, I have hereunto set my hand and caused the Seal of the Secretary's Office to be affixed, the day and year above written.

A handwritten signature in black ink, appearing to read "Carol A. Riddle".

Secretary of the Commonwealth

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF LABOR AND INDUSTRY



THIRD PARTY AGENCY CERTIFICATION

The following agency is hereby certified to act as a construction code official pursuant to the Pennsylvania Construction Code Act, #245 of 1999.

ARRO Consulting, Inc

A00021
AGENCY NO.

July 19, 2021
EXPIRATION DATE

June 7, 2018
ISSUE DATE



Christina L. Slaybaugh

CHRISTINA L. SLAYBAUGH, ADMINISTRATOR

Department of Labor and Industry
BOIS – UCC Certification Unit
Room 1623, 651 Boas Street
Harrisburg, PA 17121
(717) 772-3396

- THIS CERTIFICATION IS NOT TRANSFERABLE -

June 7, 2018

Ms. Susan Long
ARRO Consulting, Inc.
108 West Airport Road
Lititz, PA 17543

Dear Ms. Long:

This will advise that the Department of Labor and Industry has issued a third party agency certification for ARRO Consulting, Inc. This certification expires July 19, 2021.

The Uniform Construction code training and certification regulations condition certification on your utilization of persons who have either been registered or certified by the Department and the provision of proof of professional errors and omission insurance in the amount of \$1 million covering all the named employees or agents. Further, the regulations require that all certified third party agencies notify the Department of changes in employment status and in their required errors and omissions insurance coverage. We will appreciate your cooperation in this matter.

Should you require any additional information, please do not hesitate to contact this office at (717) 772-3396 or UCCBOIS@pa.gov.

Sincerely,

Christina L. Slaybaugh

Christina L. Slaybaugh, Administrator

Enclosure



ATTACHMENT B

ATTACHMENT B (Item 6 – Contracts and Business Partnerships)

WWDC

- Bethlehem Township. Municipal Authority: Operations consulting for sewage collection system. Contact: Steven J. Hunsberger, Authority Agent and Director of Physical Plant.
- Columbia Borough: Backup WWTP Operations Manager services.
- Conewago Township. Sewer Authority, York County: Daily WWTP and collection system operations and maintenance
- East Whiteland Township. Chester County: Malvern Hunt WWTP, daily operations and maintenance.
- Lewisberry Area Joint Authority, York County: Daily WWTP operations and maintenance.
- Manheim Area Water and Sewer Authority: WWTP backup operator and operations consulting.
- Mount Joy Borough Authority: WWTP operations consulting.
- Ontalaunee Township., Berks County: Collection system backup operator.
- Shoemakersville, Berks County: WWTP backup operator and operations consulting.
- Upper Uwchlan Township. Municipal Authority: Sewer Authority Administrator/Director services; yearly GASB 34 asset valuation.

Contract Operations & Maintenance Services

Wastewater Facilities

Conewago Township, York County, PA

In May 2002, ARRO began operating and maintaining the 0.5 million gallons per day (MGD) wastewater treatment plant and collection system that serves Conewago Township. The Aqua-Aerobic Systems sequencing batch reactor plant consists of two 0.25 MGD units followed by chlorine contact tanks and a cascading outfall, and two aerobic sludge digesters.

At the treatment plant, ARRO is responsible for the normal operation and maintenance of the facility including staffing, operator licensing, sampling, analyses, discharge monitoring report preparation, routine equipment maintenance, general housekeeping, and other miscellaneous tasks.

ARRO's efforts included additional influent and industrial testing, mechanical changes to pumps and piping, repair and rewiring of floating mixers, and process control modifications for more cost-effective treatment and biological nutrient removal.

The collection system includes over 100 individual residential grinder pump stations and eight major submersible pump stations, all operated and maintained by ARRO.

Client



Conewago Township Sewer
Authority
York County, PA

Pamela Mease, Administrator
717.266.5518



Contract Operations

Wastewater Treatment Plant

Lewisberry Area Joint Authority

ARRO began operating and maintaining this 100,000-gallon per day activated sludge wastewater treatment plant in January 2001. The plant consists of a main influent submersible pump station, flow equalization, extended aeration, final clarification, and effluent disinfection utilizing ultraviolet light technology. ARRO's efforts have included laboratory testing revisions and testing of alternate chemicals, flow distribution system changes, treatment process and air distribution modifications, and sludge dewatering for more cost-effective treatment.

Client



Lewisberry Area Joint Authority
Lewisberry, PA

Paul A. Fisher, Chairperson
717.938.1154



Wastewater Treatment Plant BNR Upgrade

Mount Joy Borough Authority

The Mount Joy Borough Authority owns and operates a 1.53 MGD wastewater treatment plant that provides sewage treatment for Mount Joy Borough, Mount Joy Township, Rapho Township, and East Donegal Township in Lancaster County, Pennsylvania. ARRO has been the Authority Engineer for approximately 30 years.

In 2010, ARRO completed an upgrade to the Borough's existing wastewater treatment plant to provide biological nutrient removal (BNR) for compliance with the Chesapeake Bay Tributary Strategy. The nutrient removal improvements included three processes. The first was the implementation of a process control system and aeration system improvements to facilitate simultaneous nitrification and denitrification within the existing activated sludge tanks. The second was the construction of a deep bed denitrification filter system that incorporated three continuously backwashing up-flow filters within the footprint of the existing conventional sand filters. A methanol feed system was also designed to provide supplemental carbon for denitrification within the filtration system. The third improvement was the installation of an alum feed system for phosphorus removal.

Additional improvements constructed as part of the project included an ultraviolet disinfection system, post aeration basin, chemical feed system for phosphorus removal, equalization basin upgrades and a new main pumping system. The Authority also had the opportunity to have a 385 KW solar panel system installed within the facility through grant funding and private investors.

ARRO provided the Borough with study, design, bidding and construction phase services for this project.



Client



Mount Joy Borough Authority
John Leaman, Manager
john@mountjoypa.org
(717) 225-5791



Start Date: November 2007
Completion Date: May 2011
Final Cost: \$3,500,000
Lead Firm: ARRO
Lead Engineers:
Matthew D. Warfel, P.E.



Twin Cities WWTP Upgrade

Town of Secretary, MD

The Towns of Secretary and East New Market reside in Dorchester County, Maryland and are served by a common wastewater treatment facility. This facility consists of a two-cell aerated lagoon, which is currently not capable of advanced levels of treatment to achieve nutrient removal.

ARRO recently completed a Preliminary Engineering Report for the Town, evaluating alternatives for nutrient removal improvements for this facility. The report summarized an evaluation of four treatment process options including sequencing batch reactors (SBRs), membrane bioreactors (MBRs), an oxidation ditch and an upgraded lagoon treatment or "Biolac" system. The selected alternative was an SBR system followed by deep bed denitrification filters to provide for Enhanced Nutrient Removal (ENR) criteria.

ARRO is currently preparing the detailed design for the proposed improvements. The project is partially funded through Maryland Department of the Environment (MDE). Design improvements include an upgrade to the existing 0.281 MGD wastewater treatment plant to meet ENR effluent limits including new denitrification filters, headworks (screening and grit removal system), raw sewage pumping station, two new SBRs with an integral blower room, post equalization tank and ultraviolet disinfection, new chemical feed systems, new methanol feed system, new aerobic digesters, and solids handling building with volute dewatering press, new administration building, as well as electrical improvements, including an emergency generator, and MDE permitting requirements.

Client



Town of Secretary, MD
Ms. Yvonne Pritchett, Clerk/Treasurer
townofsecretary@gmail.com
(410) 943-3113



Start Date: November January, 2014

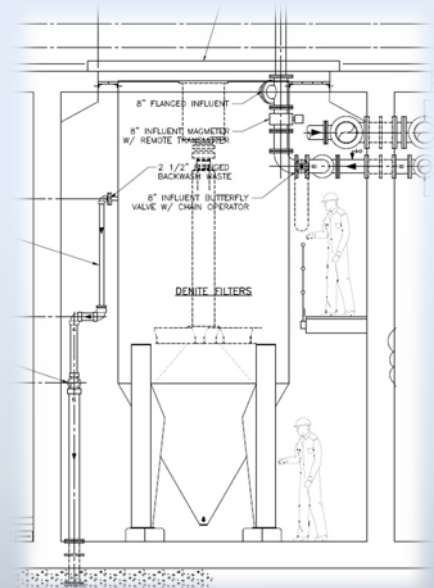
Anticipated Cost: \$10,120,000

Lead Firm: ARRO

Lead Engineers:

David M. Schlott, Jr., P.E.

Matthew D. Warfel, P.E.



Wastewater Treatment Plant Upgrade/Expansion

Spring Grove Borough

In 2008, ARRO completed an upgrade to the Borough's existing wastewater treatment plant, which included a sequencing batch reactor (SBR) treatment system design for biological nutrient removal to meet standards from the Chesapeake Bay Tributary Strategy. ARRO provided the Borough with design, bidding and construction phase services for this project.

In 2011, ARRO completed an infrastructure evaluation of the existing 0.28 MGD Spring Grove Borough wastewater treatment plant. All systems, including the piping, headworks, pumps, primary clarifiers, trickling filter system, secondary clarifiers, disinfection system, aerobic digesters, electrical system and controls, blowers, and pumps, were examined as part of this evaluation.

ARRO began the design of a biological nutrient removal treatment upgrade for Spring Grove in 2014. ARRO was responsible for the design based on review of existing data, standard engineering practice, rules and regulations established by regulatory agencies, and preliminary effluent criteria provided by PA DEP. Design included the installation of new influent pumps, revisions to the utility water pumping system, a grit removal system, two sequencing batch reactor systems with post-equalization, ultraviolet disinfection, and post aeration prior to discharge. The sequencing batch reactors were designed for both total nitrogen and biological phosphorus removal. The design also included retrofitting two existing clarifiers to serve as aerobic digesters, and provided new sludge dewatering facilities. Electrical, structural, and HVAC systems and upgrades were also provided as part of the design.

ARRO provided construction management, engineering, and observation services for construction of the designed improvements.

Client



Spring Grove Borough
Andrew Shaffer, Manager
manager@springgroveborough.com
(717) 225-5791



Start Date: August 2014
Completion Date: June 2017
Original Cost: \$7,981,777
Final Cost: \$8,179,855
Lead Firm: ARRO
Lead Engineers:
David M. Schlott, Jr., P.E.
Matthew D. Warfel, P.E.





ATTACHMENT C

ARRO CONSULTING, INC.
2021 LIST OF COMPANY OWNERS

Chairman of the Board – G. Matthew Brown
1450 E. Boot Road, Building 100-B, West Chester, PA 19380

Chief Executive Officer – Cary B. Vargo
1450 East Boot Road Building 100-B, West Chester, PA 19380

President – Brady L. Flaharty
1450 E. Boot Road, Building 100-B, West Chester, PA 19380

Executive Vice President, Chief Financial Officer, & Secretary/Treasurer – Susan L. Long
108 West Airport Road, Lititz, PA 17543

Executive Vice President, Chief Operating Officer – Matthew D. Warfel
108 West Airport Road, Lititz, PA 17543

Senior Vice President, Director of Technical Services – Mark D. Harman
108 West Airport Road, Lititz, PA 17543

Vice President, Assistant Secretary– Darrell L. Becker
108 West Airport Road, Lititz, PA 17543

Vice President – Stephanie G. Clay
108 West Airport Road, Lititz, PA 17543

Vice President – Carolyn F. Giardini
1450 E. Boot Road, Building 100-B, West Chester, PA 19380

Vice President – Terry L. Kauffman
108 West Airport Road, Lititz, PA 17543

Vice President – Alex J. Morrison
50 Berkshire Court, Suite 209, Wyomissing, PA 19610-1219

Vice President – Paul F. Ruffini
108 West Airport Road, Lititz, PA 17543

Vice President – Thomas V. Yashinsky
1239 Centre Turnpike, Orwigsburg, PA 17961

Assistant Vice President – William L. Bohner, Jr.
350 East Main Street, Suite 200 Trappe, PA 19426

Assistant Vice President – Bryan D. Kulakowsky
1450 E. Boot Road, Building 100-B West Chester, PA 19380

Assistant Vice President – Edward C. Overberger
50 Berkshire Court, Suite 209, Wyomissing, PA 19610-1219

ARRO CONSULTING, INC.

LIST OF ELECTED OFFICERS

January 2021

Chairman of the Board – G. Matthew Brown
1450 East Boot Road Building 100-B, West Chester, PA 19380

Chief Executive Officer – Cary B. Vargo
1450 East Boot Road Building 100-B, West Chester, PA 19380

President – Brady L. Flaharty
1450 East Boot Road Building 100-B, West Chester, PA 19380

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108 West Airport Road, Lititz, PA 17543

Executive Vice President, Chief Operating Officer – Matthew D. Warfel
108 West Airport Road, Lititz, PA 17543

Senior Vice President, Director of Technical Services – Mark D. Harman
108 West Airport Road, Lititz, PA 17543

Vice President, Assistant Secretary – Darrell L. Becker
108 West Airport Road, Lititz, PA 17543

Vice President – Stephanie G. Clay
108 West Airport Road, Lititz, PA 17543

Vice President – Carolyn F. Giardini
1450 E. Boot Road, Building 100-B, West Chester, PA 19380

Vice President, Controller – Mason T. Hunter
108 West Airport Road, Lititz, PA 17543

Vice President – Terry L. Kauffman
108 West Airport Road, Lititz, PA 17543

Vice President – Alex J. Morrison
321 North Furnace St. Suite 200 Birdsboro, PA 19508

Vice President – John A. Mott
1450 East Boot Road Building 100-B, West Chester, PA 19380

Vice President – Paul F. Ruffini
108 West Airport Road, Lititz, PA 17543

Vice President – Michael A. Schober
108 West Airport Road, Lititz, PA 17543

Vice President – Thomas V. Yashinsky
1239 Centre Turnpike, Orwigsburg, PA 17961

Assistant Vice President – Michael J. Bingham
108 West Airport Road, Lititz, PA 17543

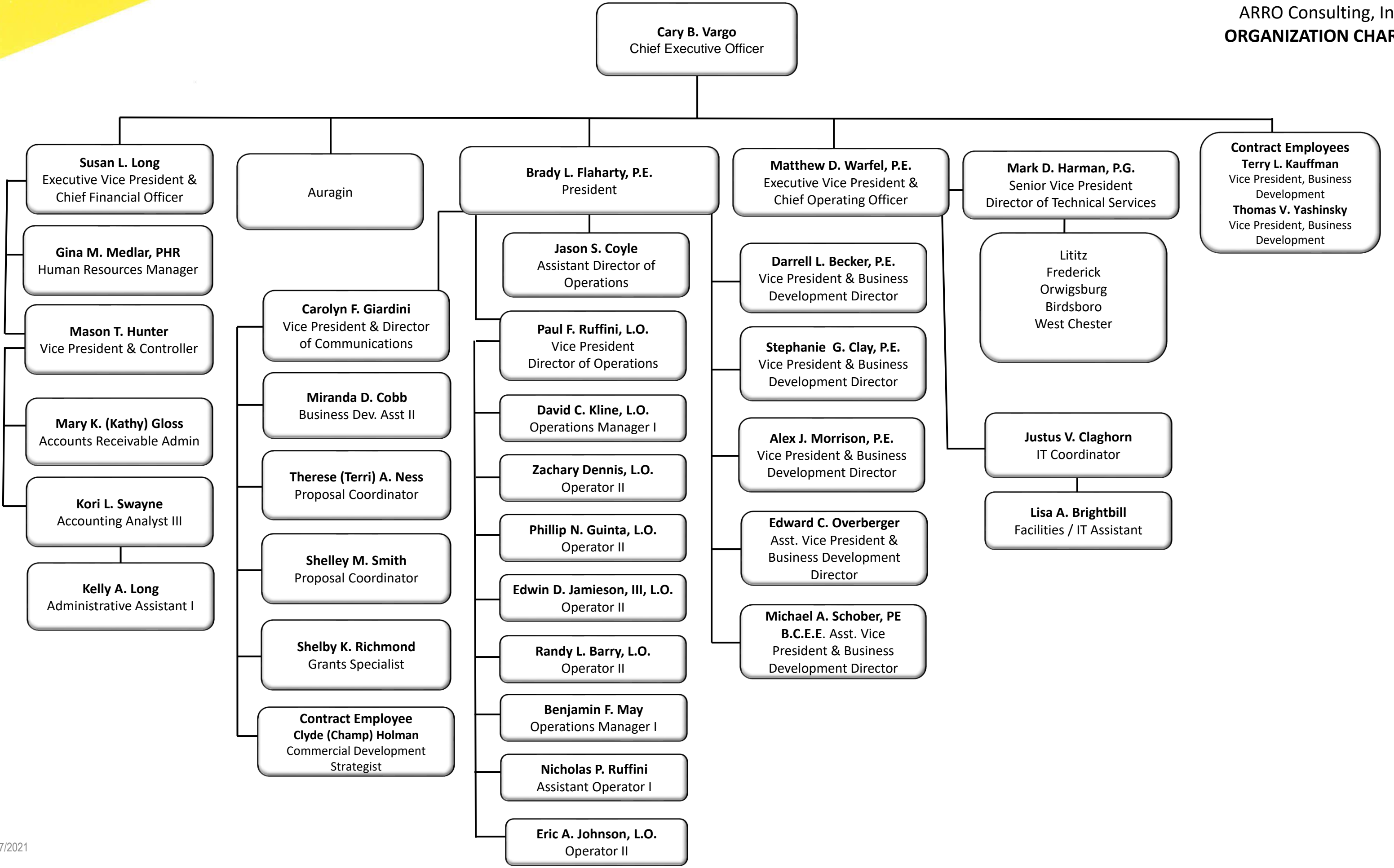
Assistant Vice President – William L. Bohner, Jr.
321 North Furnace St. Suite 200 Birdsboro, PA 19508

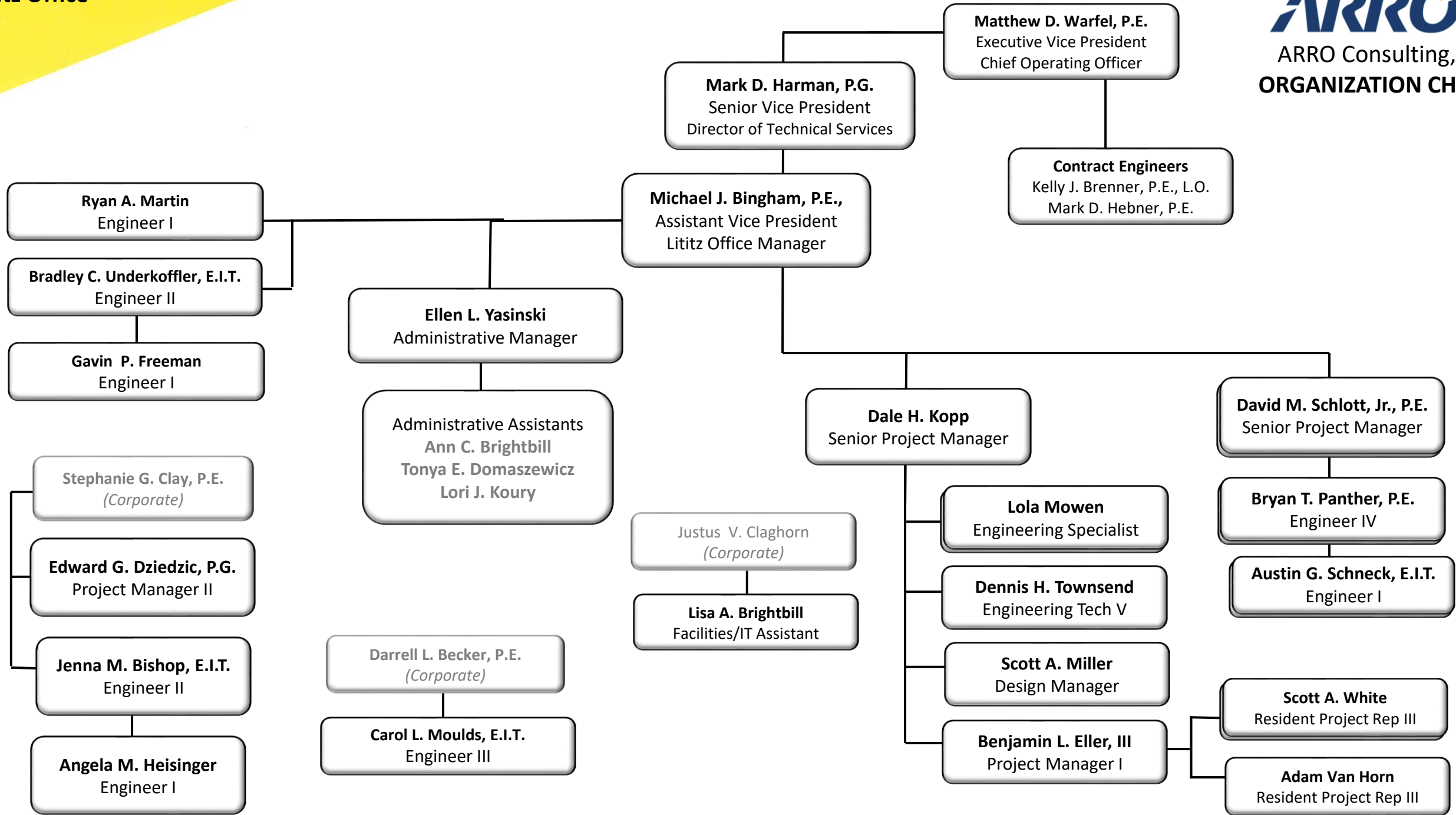
Assistant Vice President – Bryan D. Kulakowsky
1450 E. Boot Road, Building 100-B West Chester, PA 19380

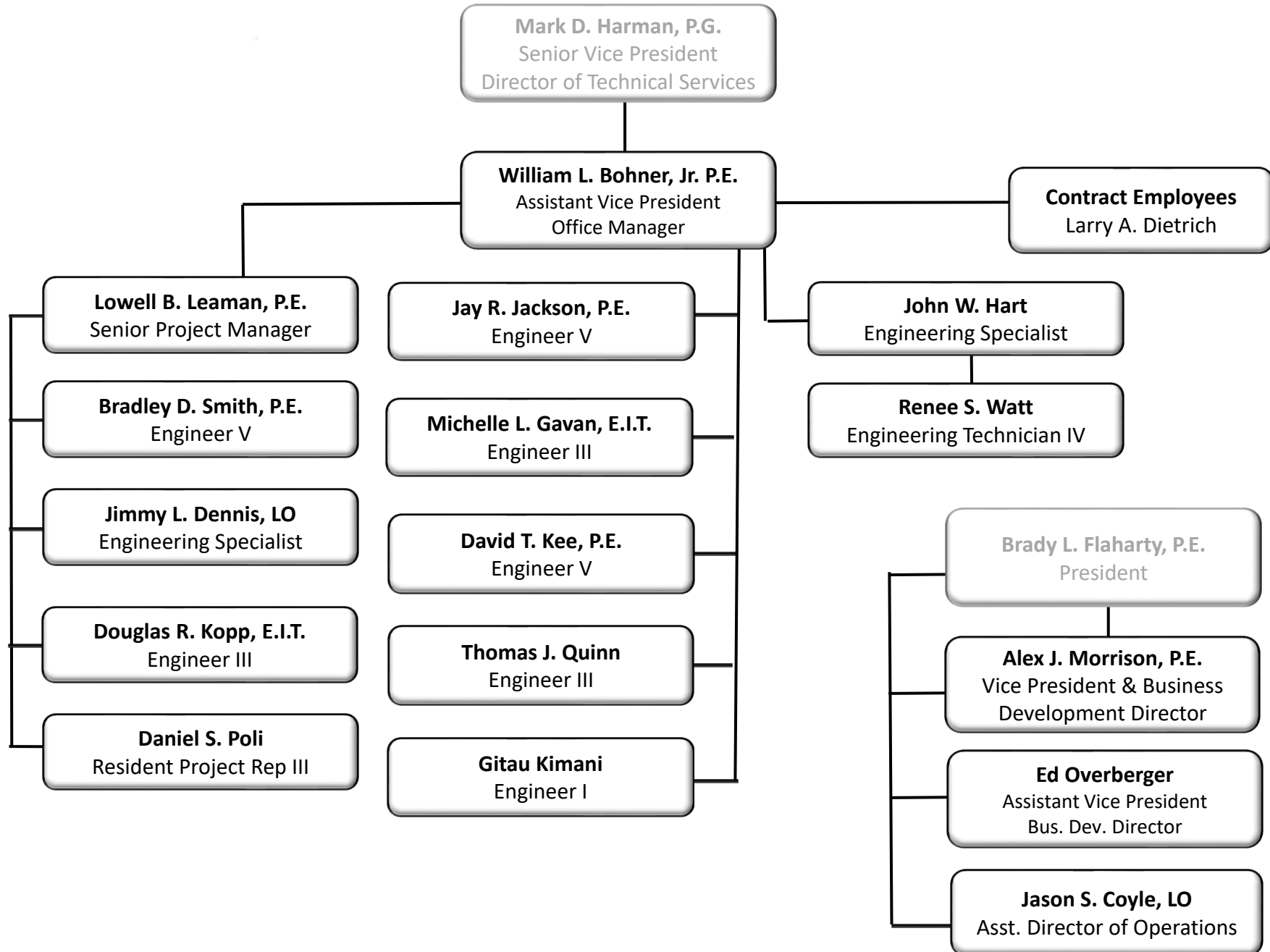
Assistant Vice President – Nathaniel J Merkel
201 Thomas Johnson Drive Suite 207 Frederick, MD 21702

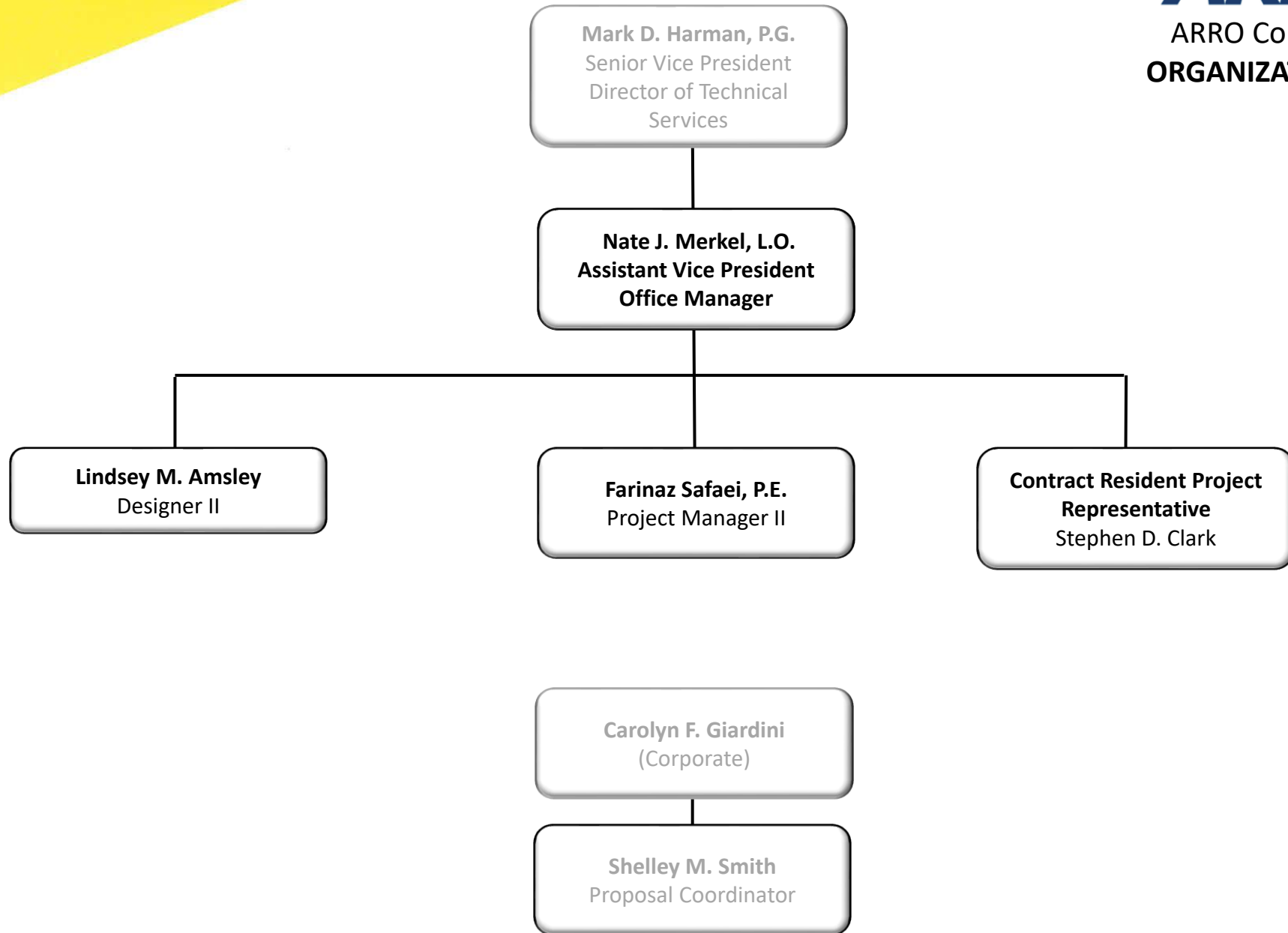
Assistant Vice President – Edward C. Overberger
321 North Furnace St. Suite 200 Birdsboro, PA 19508

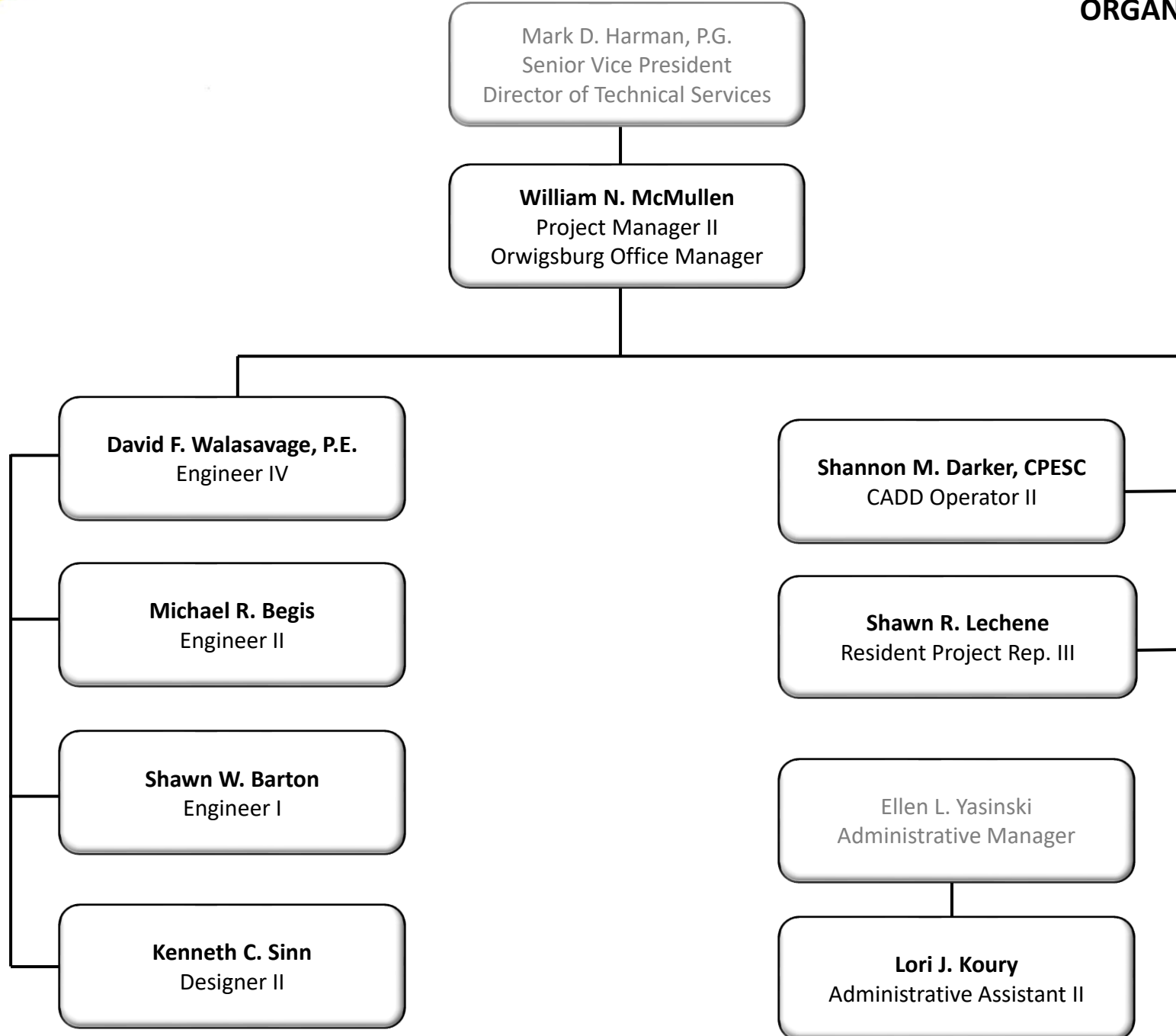
Assistant Vice President – Robert R. Pingar
1450 E. Boot Road, Building 100-B West Chester, PA 19380

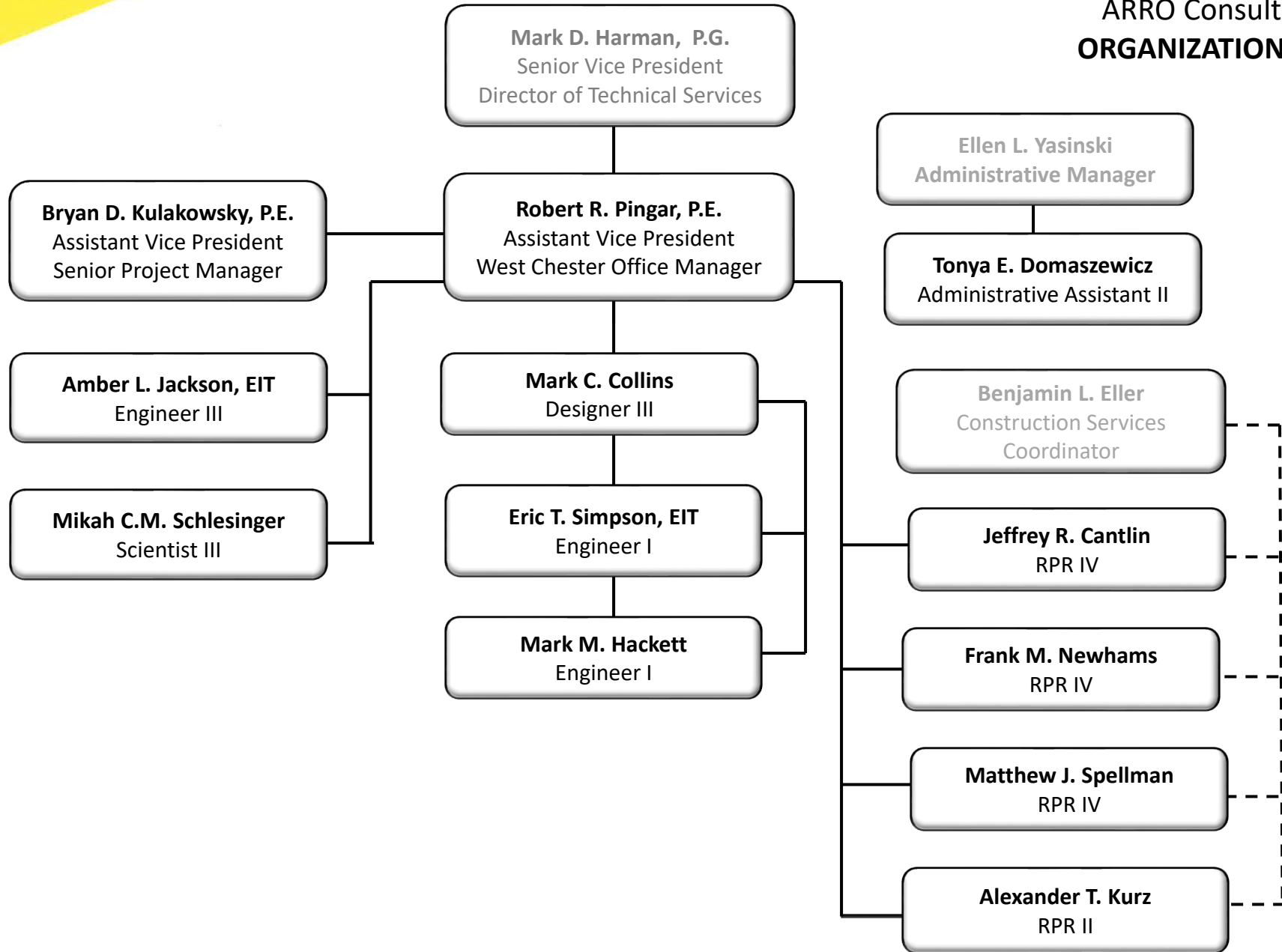


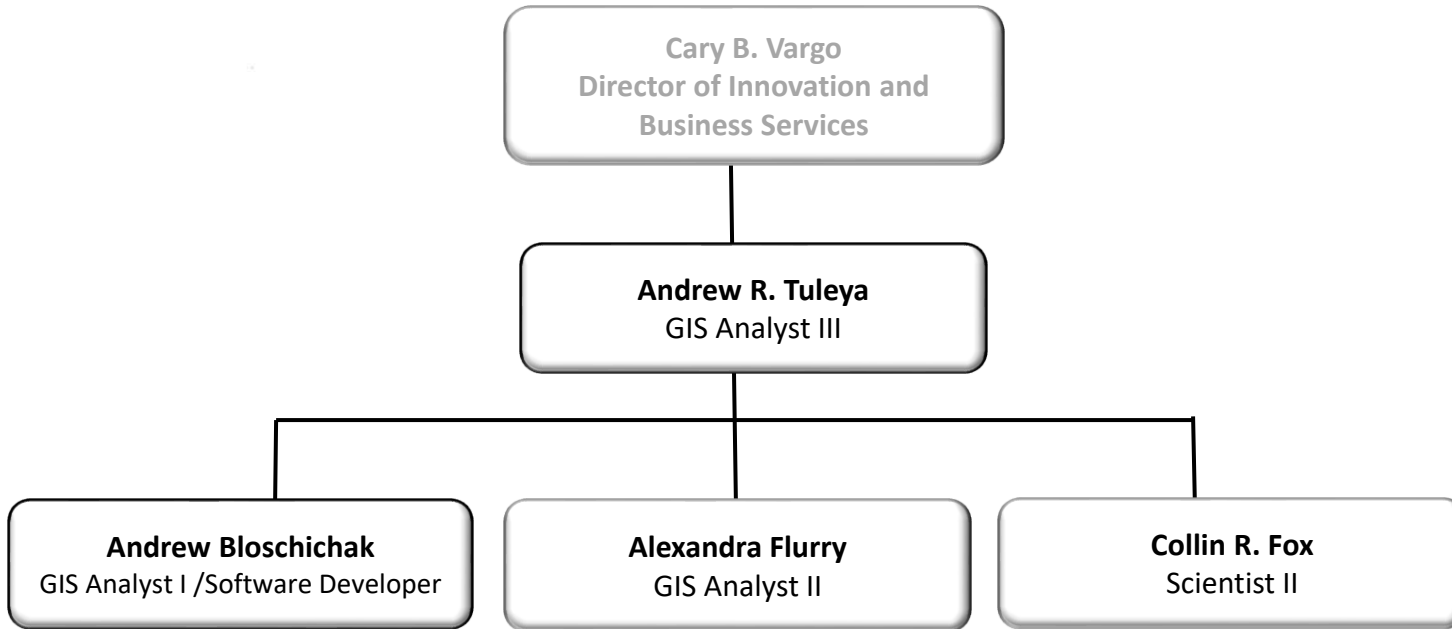














ATTACHMENT D



G. MATTHEW BROWN, P.E., DEE Chairman of the Board

CREDENTIALS:

Professional Engineer: PA, 1982; NJ, 1984; NY, 1987; MD, 1991; DE, 1994; MA, 1994
B.S./Water Resources Engineering Technology/The Pennsylvania State University/1976
Graduate Studies/Engineering Administration/The Pennsylvania State University/1979-1981
Graduate Studies/Business Administration/Harvard Business School/1996
Commercial Pilot, Certified Flight Instructor

PROFESSIONAL RECOGNITION:

Commonwealth of PA, Department of Environmental Protection, Certified Water Treatment Instructor
Chairperson, Pre-Engineered Water Treatment Systems Task Committee, American Society of Civil Engineers, October 1989, Honored Member, Strathmore's Who's Who Register, 1997-98

Forty-five years of experience in development of treatment techniques and design of water purification facilities for municipal and industrial use; design of water distribution networks establishing hydraulic, storage, and pumping requirements; groundwater surveys and well design; design of treatment and collection facilities for municipal wastewater systems; development of sludge disposal systems; and operation of municipal water and wastewater systems including operability analysis, expansion projections, troubleshooting, operator training, and facility management.

Chief Executive Officer ARRO Consulting, Inc.

Manages ARRO's operations, responsible for management of 100 staff; supervises preparation of construction drawings and specifications, and coordinates efforts of structural, mechanical, electrical, environmental, and civil design disciplines, as well as administrative and marketing functions.

Client Liaison/Project Manager Various Clients

Serves as client liaison/project manager for engineering, consulting, and construction projects, responsible for facilitating public meetings and hearings, coordinating regulatory agency permits and approvals, and maintaining infrastructure project budgets and schedules during planning, design, and construction phases; current clients include Borough of Mount Joy/Mount Joy Borough Authority, Borough of Lititz, and Manheim Township (all in Lancaster County, PA), Upper Uwchlan Township and Upper Uwchlan Municipal Authority (Chester County, PA), and East Norriton-Plymouth-Whitpain Joint Sewer Authority and Upper Merion Township (both in Montgomery County, PA).

Client Liaison General Municipal Authority of the Township of Manheim Lancaster County, PA

Represents municipal water authority, responsible for providing professional engineering advice and recommendations with respect to public water supply system operational and fiscal activities including planning and demand projections and identification of current and future distribution and storage facility capital improvements to adequately service growth.

Engineering & Operation Water and Wastewater Utilities Eastern United States United Water

Participated in engineering; operations; rate analysis and State Utility Regulatory Commission testimony for 17 water and wastewater utilities in eastern US; water treatment capacities ranged from 0.1 to 20.0 MGD, and wastewater treatment capacities ranged from 0.1 to 3.0 MGD; responsibilities included completion of engineering and planning studies; hydraulic modeling of water distribution systems; design of capital improvements; technical guidance and coordination of operating personnel; impact of local, state, and federal regulations on operations; staff training and supervision; and preparation of capital improvement budgets.

CARY B. VARGO
Chief Executive Officer



CREDENTIALS:

M.A./Public Administration/Certificate in City Management/Villanova University/2010
B.S./Public Administration/Minor in Speech Communications-Public Relations/Kutztown University of Pennsylvania/2007
A.A.S./Criminal Justice and Law Enforcement Administration/Reading Area Community College/2005

General Management-Continuing Education

The Effective Local Government Manager, Managing Local Government Services, Management Policies in Local Government Finance, Pennsylvania State Association of Township Supervisors Local Government Officials Training, Developing and Managing Your Municipal Budget, Bookkeeping and Accounting Basics, Duties of a Zoning Officer, Managing the Non-Civil Service Police Department, Police Liability Issues, Lessons in Police Leadership, Pennsylvania State University Police Supervisor In Service Training, Pennsylvania State University Police Executive Development Program, ICMA's Local Government Police Management, Diversity in the Work Place, Preventing Gangs in Our Communities, Hiring Top Cops: Strategies for Success, What You Need to Know About GIS and Geospatial Technology, Sub-Division and Land Development, The Manager's Role in Containing the Rising Costs of Health-Care, Effective Communication With Your Elected Officials, Certified Labor Relations Professional- Academies I, II, and III

Emergency Management-Continuing Education

Federal and state emergency management training to include the following: Hazardous Materials Awareness/Operations, Domestic Terrorism, Emergency Program Manager, Radiological Emergency Management, Introduction to the Incident Command System, Incident Command System-Basic, Principles of Emergency Management, Emergency Planning, Decision Making and Problem Solving, Effective Communication, Role of the Emergency Operations Center in Community Preparedness, Response and Recovery, Multi Hazard Emergency Planning for Schools, Continuity of Operations, National Incident Management System, Developing and Managing Volunteers, Special Events Contingency Planning for Public Safety Agencies, National Infrastructure Protection Plan, Critical Infrastructure Security: Theft and Diversion - What You Can Do, Protecting Critical Infrastructure Against Insider Threats, Pennsylvania Emergency Management Agency online learning

MEMBERSHIPS:

International City/County Management Association (ICMA)
Association for Pennsylvania Municipal Management (APMM)
National Public Employers Labor Relations Association (NPELRA)
Past President/Member - Chester County Manager's Consortium Executive Committee
Member - Chester County Tax Collection Committee Executive Committee
Member - Delaware Valley Health Trust Executive

PROFESSIONAL RECOGNITION:

Four official commendations awarded for actions taken as a member of the CPD
Kutztown University's Joseph Peters/ Albert Dixon Memorial Award for Outstanding Academic Achievement in Political Science/Public Administration

Thirty-three years of demonstrated experience and success in operations and administration of various facets of local government, in varying sized municipalities ranging from rural/suburban to large metropolitan, including experience in government, law enforcement, crisis management, crisis communications, emergency management, and pre-hospital emergency medical care.

Executive Director
Chester County Association of
Township Officials
Chester County, PA

Served for 4 years; assisted elected officials with their mission of advancing ethical local government principles and ensuring the health, safety, and welfare of citizens.

CARY B. VARGO
Chief Executive Officer



Township Manager
Upper Uwchlan Township
Chester County, PA

Directed administration of Township government in accordance with policies determined by Board of Supervisors; prepared annual budgets and submitted estimates to Board of Supervisors for approval - ongoing GFOA Budget Presentation Award winner; implemented five year budgetary planning process for all funds; transitioned Township to detailed, GFOA award winning comprehensive annual financial reports; planned, revised, and implemented policies relating to all phases of personnel activity; managed Township's health and welfare benefits program ensuring continued competitive package while realizing significant and sustainable cost savings - four years with no per employee premium increases; increased Township's use of technology in order to improve communication with all stakeholders and to increase employee efficiency; researched and implemented new software packages to serve Finance, Building, Sewer, and Public Works Departments; implemented cloud-based IT environment; implemented performance management based culture; drafted Public Works policies and procedures in furtherance of APWA accreditation process; implemented PowerDMS to disseminate policies, procedures, training modules; implemented Township- wide risk management program to include facilities management and robust employee training program; implemented Adaptive Traffic Control Signal System including: grant funding, research of various systems, bid process, construction, operation and maintenance; implemented a Toter based solid waste and recycling automatic collection system which decreased material in solid waste stream by 30% transitioned sewer and trash billing from contracted personnel to in-house personnel to improve customer service to end user/resident; managed planning and construction phases of several federally funded pedestrian bridge, trail, and roadway construction projects; guided police department through PCPA accreditation process; updated or developed a number of planning documents including: Comprehensive Plan, Village Transportation Plan, Upland Farms Adaptive Re-Use.

Township Manager
Thornbury Township
Chester County, PA

Directed administration of Township government in accordance with policies determined by Board of Supervisors; prepared agendas for Board of Supervisors and Planning Commission meetings; prepared annual budget and submitted estimates to Board of Supervisors for approval; initiated strategic planning process based on existing comprehensive plan; conferred with consultants responsible for roadways, planning and zoning, building inspection, maintenance, and sanitation to coordinate use of available resources (project management); planned, revised, and implemented policies relating to all phases of personnel activity; increased Township's use of technology in order to improve communication with all stakeholders and to increase employee efficiency; grant writing - private sector, county, state, and federal applications completed; \$375,500 secured in budget year 2008 with state and Federal funding



BRADY L. FLAHARTY, P.E.
President

CREDENTIALS:

Professional Engineer: PA, 2000

M.Eng./Environmental Engineering/The Pennsylvania State University/1999

B.S./Civil Engineering (Environmental Engineering Minor)/The Pennsylvania State University/1994

Twenty-five years of experience in management, planning, engineering design, and construction of large scale infrastructure improvement projects that entail extensive interaction with and communication among municipal entities, general public, and regulatory agencies, cost opinion preparation, financial analysis and funding procurement, preparation of construction drawings and specifications, regulatory permitting, coordination and supervision of technical personnel, quality management, and construction management and administration.

Officer-in-Charge
ARRO Consulting, Inc.

Manages ARRO's operations, responsible for management of 100 staff; supervises preparation of construction drawings and specifications, and coordinates efforts of structural, mechanical, electrical, environmental, and civil design disciplines, as well as administrative and marketing functions.

Client Liaison
Various Clients

Serves as client liaison for engineering, consulting, and construction projects, responsible for facilitating public meetings, coordinating regulatory agency permits and approvals, and maintaining project budgets and schedules during planning, design, and construction phases; current clients include East Coventry Township, East Whiteland Township (wastewater), Easttown Township and Easttown Municipal Authority (each in Chester County, PA).

Client Liaison
East Whiteland Township
Chester County, PA

Represents Township as wastewater engineer, responsible for making presentations at Board of Supervisors meetings, coordinating activities among staff members, and ensuring that construction project budgets and timelines are met.

Wastewater Treatment Plant
Tinicum Township, Delaware
County (PA), Sewage Authority

Managed design project for 1.4 MGD two-stage high-rate trickling filter wastewater treatment facility; project included media replacement for trickling filters, new secondary settling tank, replacement of recirculation pumps, and new flow monitoring system for recirculation lines.

**Hollow Creek Wastewater
Treatment Plant**
Springfield Township
Municipal Authority
York County, PA

Managed design of 0.7 MGD sequencing batch reactor treatment plant that resembles farmstead to blend with rural surroundings (barn structure built over sequencing batch reactor tanks; stone farmhouse constructed over post-equalization basin contains laboratory, control room, and emergency generator; and Harvestore tank used as aerobic digester); project involved grinder vault, submersible triplex influent pumping station, two sequencing batch reactor tanks, post-equalization tank, aerobic digester, and ultraviolet disinfection; designed site layout plan, site grading plan, soil erosion and sedimentation control plan, hydraulic profile, mechanical equipment and piping plans; performed hydraulic calculations to size pumps and piping; and prepared specifications, contract drawings, construction cost opinion, and permit applications; reviewed shop drawings.

Wastewater Treatment Plant
Mott's, Inc.
Williamson, NY

Evaluated 1.2 MGD industrial wastewater treatment plant that utilizes activated sludge lagoons to treat food processing and line cleaning wastes; identified deficiencies, recommended improvements, and provided cost opinion for each improvement; evaluated solids handling via comparison of sludge dewatering options and payback periods.



SUSAN L. LONG
Executive Vice President
Chief Financial Officer/Secretary Treasurer

CREDENTIALS:

Passed Certified Public Accountant (CPA) exam, 1996

Registered Series 7—General Securities Representative/National Association of Securities Dealers/1986

Registered Series 27—General Securities Financial/Operations Principal/National Association of Securities Dealers/1992
B.A./French/Earlham College/1976

Forty-four years of financial accounting experience including nine years working in upper-level management of financial services accounting department and 14 years in accounting and financial operations of securities industry; experience includes municipal underwriting, general ledger, fixed assets, payroll, budgeting operations, overseeing and maintaining expenses/cash management, preparation and review of external/internal reports, monthly account reconciliation, historical analysis of finances, interfacing with internal/external auditors, National Association of Securities Dealers, Securities Exchange Commission, and Federal Reserve; monthly reporting and documentation necessary for compliance to regulations and guidelines established by Securities Exchange Commission and National Association of Securities Dealers, investment operations, hiring and training of employees, spearheading methods to streamline workflow, troubleshooting, managing high volume of million-dollar transactions, and day-to-day operations.

**Chief Financial
Officer/Controller**

Tucker Anthony, Inc. (Formerly
Hopper Soliday & Co., Inc.)
MidAtlantic Division
Lancaster, PA

Managed accounting department composed of chief financial officer/controller, assistant controller, staff accountant, and clerk for one of few brokerage firms owned by banks in country; responsibilities included general ledger, fixed assets, payroll; interfaced with internal/external auditors, parent company, National Association of Securities Dealers, Securities Exchange Commission, Federal Reserve; prepared reports, analyses, and calculations for auditors' review, managed and prepared budget for Division, negotiated municipal underwriting such as issuing and selling of bonds; performed monthly reporting and documentation necessary for compliance with regulations and guidelines established by Securities Exchange Commission and National Association of Securities Dealers.

**Chief Financial
Officer/Controller**

Tucker Anthony, Inc. (Formerly
Hopper Soliday & Co., Inc.)
MidAtlantic Division
Lancaster, PA

Spearheaded methods to streamline workflow; developed computerized financial accounting spreadsheets and reports to expedite tracking and analysis for accounting department staff.

Controller

Tucker Anthony, Inc.
MidAtlantic Division
Lancaster, PA

Supervised and maintained expenses/cash management, maintained general ledger, signed accounts payable checks, prepared and reviewed external/internal reports, and performed monthly account reconciliation.

Bank Investment Officer

Hamilton Bank
Lancaster, PA

Performed monthly reporting and documentation necessary for company's compliance with regulations and guidelines established by Securities Exchange Commission and National Association of Securities Dealers.

**Assistant Municipal Bond
Trader**

Hamilton Bank
Lancaster, PA

Assisted in underwriting of bonds, sought out bonds for in-house salespeople, acted as liaison between salesforce and broker dealers.



MATTHEW D. WARFEL, P.E.
Executive Vice President/Chief Operating Officer

CREDENTIALS:

Professional Engineer: PA, 2008; MD, 2012
M.S./Civil & Environmental Engineering/Cornell University/1998
B.S./Civil & Environmental Engineering/Drexel University/1994
B.S./Engineering (Appropriate Technology)/Drexel University/1994

Twenty-two years of experience in planning, design, and construction of wastewater treatment, collection and conveyance systems as well as water treatment, distribution and storage systems; responsible for project management, process design, construction cost opinions, bidding services; construction management and engineering; serves as engineer of record for municipalities.

**Director of Engineering
ARRO Consulting, Inc.**

Manages ARRO's technical division, responsible for management of 100 staff; supervises preparation of construction drawings and specifications, and coordinates efforts of structural, mechanical, electrical, environmental, and civil design disciplines, as well as administrative and marketing functions.

**Wastewater Engineering
Spring Grove Borough
York County, PA**

Serves as Borough wastewater engineer, responsible for attending monthly meetings, coordinating capital improvement projects including upgrades and rehabilitation of sewer mains and manholes, design of headworks improvements, and development of GIS layers for Borough sanitary sewer system; prepares annual Chapter 94 reports.

**Third-Party Engineering Review
City of York Sewer Authority
York County, PA**

Provided third-party engineering review for biological nutrient removal upgrades at 26.0 MGD wastewater treatment plant; reviewed design engineer's Biowin process model; reviewed process, operability, and maintenance issues in design engineer's work.

**Wastewater Treatment Facility
Swatara Township Authority
Dauphin County, PA**

Designed process, solids handling, and biological nutrient removal upgrade to 6.3 MGD wastewater treatment facility; project involved screening and grit removal, sewage and sludge pumping facilities, VertiCel biological nutrient removal system (vertical loop reactor), secondary clarifiers, gravity sludge thickener, sludge holding tanks, and centrifuge and drier solids handling facility; completed hydraulic profile and developed cost opinions for proposed construction activities.

**Wastewater Treatment Facility
Salisbury Township
Lancaster County, PA**

Administered closing of PennVest grant and loan financing for proposed biological nutrient removal upgrade to wastewater treatment facility; provided process engineering services during construction management phase of project.

**PA Act 537 Sewage Facilities
Plan
Amity Township
Berks County, PA**

Evaluated three process alternatives for expansion of existing 2.2 MGD wastewater treatment plant to proposed 2.7 MGD capacity; made recommendation for expansion and upgrade of headworks, secondary treatment (oxidation ditch), disinfection, and sludge handling facilities.

**Eaglepointe Wastewater
Treatment Plant
Upper Uwchlan Township
Chester County, PA**

Completed conceptual design, including process design considerations and construction cost opinion, for proposed biologically-engineered single sludge treatment (BESST) extended aeration package plant to operate parallel to existing 0.015 MGD activated sludge treatment facility; wrote proposal for submission to PA DEP's Growing Greener New or Innovative Technology grant program, responsible for review of innovative biologically-engineered single sludge treatment (BESST) technology, project budgets, and schedules.



MARK D. HARMAN, P.G.

Senior Vice President/Director of Technical Services

CREDENTIALS:

Professional Geologist: PA, 2009

B.S./Engineering Geology/Millersville University/2001

Coursework:

Plant Identification: Wetlands & Their Borders/Institute for Wetland & Environmental Education & Research, Inc./2008

Wetlands Delineation/Richard Chin Environmental Training Inc., Annapolis (MD)/2006

Nineteen years of experience in municipal storm sewer system (MS4) compliance, total maximum daily load (TMDL) planning, Chesapeake Bay pollution reduction planning, stormwater management system design, best management practice design and installation, NPDES permitting, erosion and sedimentation control planning, hydrogeologic studies, groundwater nitrate impact assessment and remediation, and carbonate geology identification and reporting (including oversight on projects in areas where carbonate geology poses site-specific hazards), wetland delineation, flora and fauna assessment and remediation, sewage facility planning, permitting, and design; laboratory experience includes testing, storage, and monitoring of corrosive and non-corrosive chemicals, as well as basic electrical circuit assembly, set-ups, and troubleshooting; field experience includes water sampling, soils identification and classification, karst assessment, outcrop identification, ground penetrating radar, resistivity depth profiling, conductivity depth profiling, and magnetometer; serves as appointed or alternate zoning official for designated municipalities in south central PA; also knowledgeable with respect to VTPSUHM, Hydroflow 8.01, Flowmaster, and North American Green 4.1 computer modeling programs.

**Municipal Separate Storm
Sewer System (MS4) & Total
Maximum Daily Load (TMDL)
Planning**

Chester, Dauphin, Lancaster, &
Lehigh Counties

Completes annual and progress reports for municipal separate storm sewer systems (MS4) including outfall mappings and evaluations; develops and completes annual updates to public education and outreach programs, public participation programs, illicit discharge programs, and public works pollution prevention and good housekeeping programs; develops pollution reduction plans; develops and completes annual updates to municipal total maximum daily load (TMDL) plans and Chesapeake Bay pollution reduction plans; performs ongoing analysis of water quality designations.

**Geologic, Hydrologic, &
Geomorphic Evaluations**

Various Projects
PA & MD

Performs water resources planning and development, including groundwater appropriation studies to determine amount of mineable groundwater within particular area; well siting studies, including review of local geology, fracture trace analysis, and water budgets; wellhead protection planning and definition of regional groundwater trends; manages installation and testing of test and supply wells and subsequent management of conversion of test wells into production wells; develops and implements long-term groundwater monitoring programs; planning, testing, and permitting undertaken in compliance with PA DEP, MDE, Delaware River Basin Commission, and Susquehanna River Basin Commission regulations.

Performs subsidence (karst) assessment and remediation including reviews of local geology, topography, and drainage patterns to determine nature of subsidence; uses evasive and non-evasive techniques to profile subsurface conditions; makes recommendations to repair existing subsidence and prevent future subsidence formation; assesses feasibility of creating hydrologic connections between contaminated surface waters and subsurface aquifers; evaluates effects of development and land use changes on karst terrain.



DARRELL L. BECKER, P.E.
Vice President
Assistant Secretary

CREDENTIALS:

Professional Engineer: PA, 1986
 B.S./Civil Engineering/The Pennsylvania State University/1979

Forty-one years of experience in design and evaluation of roadway construction and improvements, bridge rehabilitation and replacement, storm drainage systems, water mains, sanitary sewers, aviation-related facilities; has also served as municipal engineer for numerous boroughs and townships in southeastern Pennsylvania, responsible for design, specifications, cost opinions, bidding, shop drawing review, and construction observation; has worked on numerous projects involving Community Development Block Grant funding, Lancaster County-wide LATS funding, and/or PENNDOT highway occupancy and signalization permits. Provides complete range of municipal engineering services to townships and boroughs in southeastern Pennsylvania including subdivision plan review and construction observation of public improvements, design and review of stormwater management and erosion and sedimentation control plans, road improvement contracts, permits, public agency liaison, and related functions.

<p>Sanitary Sewer Rehabilitation – Basin D Marietta Borough, Lancaster County, PA</p>	<p>Managed design and preparation of plans and specifications for rehabilitation of approximately 7,600 LF of sanitary sewer pipe including 200 LF of pipe replacement, lining and post lining televising; provided installation observation and review of contractor’s applications for payment.</p>
<p>Sanitary Sewer Improvements City of Coatesville, PA</p>	<p>Managed sanitary sewer improvements; project included replacing 450 L.F. and installing 100 L.F. of eight-inch sanitary sewer lines and seven manholes.</p>
<p>Client Representation Various Municipalities</p>	<p>Serves as client representative for meeting attendance, review of subdivision and land development plans, design and recommendations regarding drainage, roadway, curb and sidewalk problems, preparation of plans and specifications for public improvement projects, construction observation services for sanitary sewers, storm sewers, water lines, roadway, curb, sidewalk, and handicapped ramps; and presentation of public improvement plans for Boroughs of Akron, Lititz, Marietta, Mount Joy, New Holland, and Quarryville; Townships of East Earl and Warwick in Lancaster County; and Township of East Whiteland in Chester County</p>
<p>Spring Road Culvert Replacement East Whiteland Township, Chester County, PA</p>	<p>Managed survey, design and preparation of plans and specifications for replacement of two 30” pipes with 7’ wide x 4’ high precast concrete open bottom culvert; project included replacement of 20’ of sanitary sewer below culvert with DICL pipe and installation of 40’ of 15” pipe and two inlets; obtained DEP General Permit; coordinated utility relocation of utility pole; performed bidding and construction services including shop drawing review, construction observation and review of contractor’s applications for payment.</p>
<p>West Henry Street and Bridge Boulevard Improvements Mount Joy Borough, Lancaster County, PA</p>	<p>Managed survey, design and preparation of plans and specifications for street reconstruction using 12” of cement stabilized base course, 3” of 25 mm bituminous base course and 2” of 12.5 mm bituminous surface course; project included constructing two infiltration trenches, storm sewer pipe and inlets, curb, sidewalk and handicap ramps; provided bidding services and construction services including shop drawing review, construction observation and review of contractor’s applications for payment.</p>



STEPHANIE G. CLAY, P.E.
Vice President

CREDENTIALS:

Professional Engineer: PA, 1992; MD, 2003; TN, 2014

M.S./Civil Engineering/University of Delaware/1988 - Major in Environmental Engineering

B.S./Civil Engineering/University of Delaware/1986

U.S. EPA RCRA/Hazardous Waste Management Training Course Completion Certificate/2017

U.S. DOT/Hazardous Materials in Transportation, 49 CFR Parts 171 – 178, Training Course Completion Certificate/2017

Thirty-two years of environmental engineering experience including regulatory compliance management for industries, environmental compliance audits, development of sustainability programs, project management, planning, design, selection, monitoring, operations, and construction of wastewater treatment systems and industrial wastewater pre-treatment facilities; provided technical support to wastewater operations and hazardous waste remediation sites; experienced with permitting, regulatory agency coordination, biological treatment, hazardous waste management, contaminated groundwaters, and preparation of reports and construction cost opinions; designed and developed training courses in support of RCRA and environmental compliance regulations; also experienced in field sampling including groundwater, wastewater, stormwater and soil sampling; calculating air, wastewater, and solid waste emissions from industrial facilities for completing compliance reports; developing and enforcing industrial pretreatment programs for municipalities.

Environmental Regulatory Compliance

Various Industrial Clients
Lancaster, Lycoming, York,
Lebanon, Adams, and Schuylkill
Counties, PA
Camden County, NJ

Provided environmental engineering expertise to maintain facilities' compliance with applicable federal, state, and local regulations, where applicable to specific facility operations; prepared environmental calendar summarizing all environmental responsibilities associated with regulatory permits and company policies; completed annual update to Spill Prevention, Control and Countermeasure (SPCC) plan, Preparedness, Prevention and Contingency (PPC) plan, and Spill Prevention Response (SPR) plan; completed regular site inspections to monitor compliance with SPCC and PPC requirements; managed universal and hazardous waste pickups for proper waste disposal, including review and approval of waste profiles and tracking waste manifests; managed daily wastewater sampling and prepared slug discharge control plan; managed semi-annual stormwater sampling and associated reporting; prepared inventory of all air emission sources and associated potential maximum and anticipated actual emissions; assisted with preparation for audit events; provided assistance with all environmental regulatory correspondence, EPA and PA DEP inspections, and developing sustainability programs.

Environmental Regulatory Compliance Management

Kellogg Company
Lancaster County, PA

Provided environmental engineering expertise to maintain plant's compliance with applicable federal, state, and local regulations; provided expertise for managing wastewater treatment plant operations and maintenance including contractors and consultants to comply with sewer authority's industrial waste discharge permit.

Annual Environmental Reporting

Various Industrial Clients
Lancaster, Lycoming, York, &
Schuylkill Counties, PA

Completed annual compliance reporting for various clients; air quality reporting including air information management system (AIMS) report, greenhouse gas report, area source boiler annual compliance certification, semi-annual emissions reports, and monthly emissions tracking and operating hours recordkeeping; storm water reporting including annual storm water assessment report, and semi-annual storm water discharge monitoring report; wastewater reporting including monthly reports to receiving authority; waste reporting including PA Tier II Emergency and Hazardous Chemical Inventory report; Form 26R report, Form 25R source reductions strategy report, biennial waste report (hazardous and non-hazardous), PA Department of Labor and Industry hazardous substance survey, and municipal recycling reports.



CAROLYN F. GIARDINI
Vice President

CREDENTIALS:

Teaching Certification: PA, 2013
B.M./Music Education/West Chester University/2013
B.M./Flute Performance/West Chester University/2013
M.M./ Flute Performance /Temple University/2015

MEMBERSHIPS:

Pennsylvania Water Environment Association, Vendor & Sponsor Committee Member
Southern Chester County Chamber of Commerce, Young Business Leader Member

PROFESSIONAL RECOGNITION:

Central Pennsylvania Business Journal, Women of Influence – Woman to Watch Award, 2018

Eleven years of experience in management, education and training, program development, administrative assistance, event planning, registration, and coordination, social media/web marketing, graphic design, marketing, business development, and client service. Management of grant procurement, supervision of ongoing internal funding education at ARRO, administration of funding research at the county, state, and federal levels, and supervision of grant application processes including: client meetings, site surveys and photographs, narrative development, securing recommendations from local entities and representatives, application submissions, and grant proposal presentations.

**Smart Growth Transportation
Grant Program**
Leacock Township
Lancaster County, PA

Supervised complete grant application process; succeeded with grant award totaling \$1.37 million; grant application was comprised of public transportation enhancement, traffic calming measures, pedestrian and traffic safety improvements, public health incentivization, community development, agritourism, and cultural preservation elements.

**CFA Multimodal Transportation
Fund**
Quarryville Borough
Lancaster County, PA

Supervised development of grant narrative, client meetings, fieldwork, and site photography; grant application was comprised of pedestrian and traffic safety improvements, community development, public transportation enhancement, tourism and infrastructure elements.

Grant Programs
Various Municipalities
Bucks, Berks, Montgomery,
Lancaster and Chester Counties,
PA

Oversaw compilation of comprehensive list of grants and other funding measures for municipalities available at county, state, and federal levels; development of grant proposal presentation template for client use; maintenance of database of grants awarded to ARRO clients, staff participation in grant writing workshops; and constant collaboration with ARRO project managers and engineers regarding available funding.

**Royersford Borough Engineer
Interview**
Montgomery County, PA

Managed internal grants specialist representing ARRO at competitive interviews for Royersford Borough Engineer position; succeeded in winning contract with Royersford Borough.

**Sanitary Sewer System
Expansion**
Upper Uwchlan Township
Municipal Authority
Chester County, PA

Provided communications assistance for Phase II collection system improvements project including website project additions/updates and informational town meeting assistance.



MASON T. HUNTER
Vice President/CONTROLLER

CREDENTIALS:

B.S./Accounting/Elizabethtown College/2011

Eleven years of financial accounting experience including general ledger, fixed assets, payroll, accounts payable, accounts receivable, taxes, budgeting, overseeing and maintaining expenses/cash management, prepare and review of external/internal reports, monthly account reconciliation, historical analysis of finances, interfacing with internal/external auditors, hiring and training of employees, spearheading methods to streamline workflow, troubleshooting, and day-to-day operations.

Controller Supervises Accounts Receivable Administrator and Accounts Payable Clerk; maintains expenses/cash management, maintains general ledger; prepares and reviews external/internal reports including tax returns; performs monthly account reconciliation; responsible for company's general accounting needs.



TERRY L. KAUFFMAN
Vice President

CREDENTIALS:

Assoc./Agriculture Business/The Pennsylvania State University/1970

MEMBERSHIPS:

Lancaster County Transportation Authority, Chairperson
West Lampeter Township Board of Supervisors, Vice Chairman
Lancaster Farmland Trust, Board Member

PROFESSIONAL RECOGNITION:

County Commissioners Association of Pennsylvania, Outstanding County Commissioner of the Year Award, 1996
PA Governor’s Award for Excellence in County Government, 1999

Thirty-eight years of managerial and leadership experience in public and private sectors, including tenure as elected and appointed municipal official for local, county, and state government entities, small business owner, and non-profit director, with focus on transportation, environmental, economic development issues; actively championed more than 30 initiatives, resulting in grant funding totaling nearly \$30 million from private and public entities at local, state, and federal levels.

Interim Township Manager
Lower Swatara Township
Dauphin County, PA

Served as Township Manager and Authority Manager; including oversight of management of staff and six million dollar budget; assisted Township with acquiring DECD funding to undertake an EIP analysis. Collaborated on grant opportunities for Storm Water and infrastructure improvement projects.

Interim Township Manager
East Earl Township
Lancaster County, PA

Appointed interim Township Manager in April of 2018 assuming all managerial responsibilities including oversight of administrative duties, police, public works, water and sewer. Additional responsibilities are new permanent manager search reporting to three-member Board of Supervisors.

Interim Township Manager
Londonderry Township
Dauphin County, PA

Served as Interim Township Manager from 12/17 - 3/18 during medical leave of Township Manager. Duties included oversight of administrative functions, zoning, public works and golf course operations.

Economic Development Consulting
Londonderry Township
Dauphin County, PA

Serves as project manager/facilitator for economic development consulting associated with future commercial/industrial development of Lytle Tract, responsible for exploring various avenues pertaining to grant and/or loan funding and financial incentives for Vine Street and PA Route 230 development projects and initiating communication among and between public and private sector stakeholders about infrastructure enhancements that could simultaneously promote sound land use planning and fuel economic growth.

Commissioner
County of Lancaster, PA

Served two terms as County Commissioner for third-class county (population less than 500,000), including tenure as chairperson; credits include expansion of agricultural preservation board and continuous funding stream, formation of Community Parks Initiative to promote parks and open space for public purposes, development of circuit rider program to facilitate economic growth with specific focus on grant funding, development of county-wide comprehensive plan that established framework for first set of urban growth boundaries, implementation of county/municipality permitting initiative to promote responsible growth that resulted in expedited permitting procedures for projects within urban growth areas, and development and implementation of new county-wide GIS.



ALEX J. MORRISON, P.E.
Vice President

CREDENTIALS:

Professional Engineer: PA, 1990

B.S./ Environmental Engineering/The Pennsylvania State University/1985

Thirty-five years of experience in planning, design, and construction of wastewater collection systems and treatment plants, responsible for process design, construction cost opinions, and bidding services; during construction, serves as engineer responsible for observation of work in progress, shop drawing review, quality management reviews, testing, change orders, and contract administration; knowledgeable with respect to PA DEP, PENNDOT, U.S. Army Corps of Engineers, Delaware River Basin Commission, PA Fish Commission, and PA Historical and Museum Commission permitting and approval procedures.

Wastewater Treatment Facility
City of Bethlehem, PA
Completed design service for new non-potable water system including new pumps, automatic strainer, controls and related piping modifications.

Wastewater Treatment Plant
Easton Area Joint Sewer
Authority
Northampton County, PA
Completed design for primary clarifiers rehabilitation, chlorine system modifications, flow division box modifications, and new scum pump station mixing system; performed engineering services during bidding and construction phases.

Wastewater Treatment Plant
Easton Area Joint Sewer
Authority
Northampton County, PA
Performed study and design engineering service for equipment upgrades at wastewater treatment plant including refurbishment of final clarifier equipment, new primary effluent pumps, new chemical addition equipment and new structure to house equipment.

Wastewater Treatment Plant
Easton Area Joint Sewer
Authority
Northampton County, PA
Performed initial study and design for rehabilitation of anaerobic digester No. 2 fixed cover, return lift pump station, and utility water pump station, and addition of water meter pit; provided engineering services during bidding and construction phases.

Wastewater Treatment Plant
Easton Area Joint Sewer
Authority
Northampton County, PA
Served as senior engineer for equipment upgrades at Authority's 10 MGD wastewater treatment facility; project included upgrade to two existing 110 ft diameter final clarifiers, new polymer system for the existing biosolids thickener, replacement of the primary effluent vertical turbine pumps; peak capacity of the primary effluent pump station is 25 MGD.

Wastewater Treatment Plant
Fleetwood Borough Authority
Berks County, PA
Completed study, permitting, and design services for upgrades to Vine Street Pump Station Force Main.

Wastewater Treatment Facility
Borough of Palmerton
Carbon County, PA
Served as officer-in-charge/quality management reviewer for upgrade to convert existing contact stabilization activated sludge treatment plant into three-stage sequencing batch reactor with Cannibal solids reduction side stream process; additional upgrades included new raw sewage pumping, equalization tanks and pumping station, cascade aeration, ultraviolet disinfection, and influent and effluent flow metering.

Wastewater Treatment Plant
Swatara Township Authority
Dauphin County, PA
Completed process analysis and design of 6.3 MGD wastewater treatment plant upgrade to provide biological nutrient removal of nitrogen and phosphorus; process included anaerobic zone, vertical loop reactor (oxidation ditch) anoxic zone, fine bubble aeration, second anoxic, and reaeration zones; plant upgrade also includes hydraulic modifications, new pumping station, and new solids handling facilities via thickening, centrifuge dewatering, and biosolids dryer.



JOHN A. MOTT, P.E.
Vice President

CREDENTIALS:

Professional Engineer: PA, 1986; NJ, 1988; WV, 1995; SC, 1997; NC, 1998; MD, 2018

B.S./Civil Engineering/The Pennsylvania State University/1978

Computerized Methods in Stormwater Management, The Pennsylvania State University, 1988

Forty-two years of experience in civil and structural engineering, project management, and construction management for public and private sector projects, responsible for supervision of multi-disciplinary project teams, subconsultant coordination, scheduling, and budgets for projects undertaken simultaneously as part of task-order contracts as well as planning studies and condition assessments, design, plans, specifications, permitting, and cost opinions; civil experience includes hydrology calculations and hydraulics analysis using TR-20, TR-55, and HEC-2.

**Wastewater Treatment Plant
Engineering Assessment**
Borough of Shoemakersville
Berks County, PA

Performed structural inspection and provided recommendations for repairs for one of two final clarifiers.

**Wastewater Treatment Plant
Engineering Assessment**
Borough of Slatington
Lehigh County, PA

Performed structural inspection and provided recommendations for assessment report of existing conditions and recommended upgrades, including conversion from anaerobic to aerobic digestion.

Sewer Design Services
East Whiteland Township
Chester County, PA

Served as project manager for design, bidding and construction observation for installation of sanitary sewers to service majority of properties located in northwestern portion of Township; project included hundreds of properties on over dozen roads.

**Transformer Foundation
Matsunk Wastewater
Treatment Plant**
Upper Merion Municipal
Utility Authority
Montgomery County, PA

Provided civil and structural engineering services for design of concrete foundation for installation of new transformer and containment slab with drainage.

**Screenings Building
Matsunk Wastewater
Treatment Plant**
Upper Merion Municipal
Utility Authority
Montgomery County, PA

Provided review of structural engineering calculations and design drawings for replacement Screenings Building; masonry building was required to be erected on existing foundation.

Grant Application
Borough of Slatington
Lehigh County, PA

Prepared PA Small Water and Sewer Grant application for project to convert wastewater treatment plant from anaerobic to aerobic digestion.

Clarifier Modifications
Albany County, NY
Public Service Enterprise Group

Managed preliminary engineering including technical scoping and funding packages to eliminate clarifier freezing problems as well as disposition of excess heat recovery steam generators blowdown at Bethlehem Energy Center.

Variable Frequency Drive
Various North Carolina Locations
Progress Energy Carolinas

Managed installation of variable frequency drives on induced draft and forced draft fans and booster fans as well as integration into power plant controls systems; plant sites included Asheville Plant Unit 2 in Buncombe County, Mayo Plant Unit 1 in Person County, Roxboro Plant Units 3 & 4 in Person County.



PAUL F. RUFFINI, L.O.
Vice President

CREDENTIALS:

Wastewater System Operator, Class A,E (Subclass 1,2,3,4); PA, 2003

Wastewater Treatment Plant Operator Class A, Type 1; PA, 1983

B.S./State University of New York, College of Environmental Science & Forestry/Environmental Resource Management/1977

Assoc./Biology/Suffolk County (NY) Community College/1975

PA DEP Certified Water & Wastewater Operations, Maintenance, & Management Trainer/Instructor/2004

Forty-one years of experience in operation and maintenance of industrial and municipal wastewater treatment facilities, and sanitary sewer collection systems; experienced in regulatory compliance issues, industrial waste discharge program compliance, hazardous waste management and transportation, environmental audit and assessment services, and underground storage tank projects.

**Wastewater Contract
Operations**
Lewisberry Area Joint Authority
York County, PA

Serves as officer-in-charge for contract operations and maintenance of 0.1 MGD wastewater treatment plant consisting of main influent pump station, flow equalization, extended aeration, final clarification, and effluent disinfection utilizing ultraviolet light technology.

Operations Consulting
Northwestern Lancaster County
(PA) Authority

Served as operations consultant for 0.25 MGD Aqua-Aerobics sequencing batch reactor wastewater treatment facility, responsible for process control testing and analysis of results, purchase of new laboratory and field testing equipment for process control monitoring and subsequent assistance with set-up and training of operators in use of equipment, monthly review of discharge monitoring report submittal to PA DEP, assistance with implementation of sewer use ordinance, recommendations for adjustment and modifications to sequencing batch reactor controls for optimal process efficiency, recommendations relative to plant expansion to 0.65 MGD, and as-needed troubleshooting associated with process problems and regulatory compliance issues.

**Environmental Services
Manager, Industrial Division**

Coordinated, directed, and supervised operations for underground storage tank removal and remediation projects, responsible for timely completion of projects, review and evaluation of work performed, determination of laboratory analysis and disposal options for waste streams generated during clean-up, and assembly and training of emergency response team; maintained contacts with governmental agencies (U.S. EPA, PA DEP, OSHA, PENNDOT, MD SHA) to verify compliance with regulatory standards, rules, and regulations; supervised and scheduled work for division drivers transporting hazardous and non-hazardous wastes in various states; also developed new business through proposal and marketing activities, managed projects, determined equipment and manpower needs, and performed cost and profitability analyses.

Operations Consulting

Provides operations consulting including process control, preparation of annual reports and discharge monitoring reports to fulfill U.S. EPA and PA DEP requirements, plant condition assessments and audits, and evaluation of monthly laboratory analyses.

**Wastewater Treatment Plant
Assessments**
Various Locations

Conducted monthly operations and maintenance review assessments of following wastewater treatment facilities, responsible for overall condition, permit compliance, process control recommendations and troubleshooting, and communication/liaison between client/owner and respective contract operators: Octorara Area School District, Chester County, PA; Lebanon (PA) Country Club; West Earl Township, Lancaster County, PA; Borough of Christiana, PA



MICHAEL A. SCHOBBER, P.E., BCEE
Vice President

CREDENTIALS:

Professional Engineer: PA, 1989, MD, 1990, WV, 1994, OH, 2014
Board Certified Environmental Engineer – American Academy of Engineers & Scientists
B.S./Civil Engineering/Villanova University/1984

Thirty-five years of experience in water and wastewater system treatment, distribution and collection; responsible for coordinating activities of professional staff as well as managing design projects and coordinating design teams; wastewater engineering and design experience includes facility planning, treatment plant design and evaluation, collection system design and modeling, permitting, infiltration/inflow investigations, inter-municipal agreements and EPA Grant Administration; odor control and treatment plant design has been nationally recognized with awards from EPA and Water Environment Federation, as well as locally: Leonard M. Glass Memorial Award from Chesapeake Water Environment Association; L.W. "Red" Davis Award from PA Municipal Authorities Association; Ted Moses High Hat Award from PA Water Environment Association; 2012 Governor's Award for Local Government Excellence, PA; and Central PA Business Journal's "Forty Under 40" Award.

Act 537 Plan
Greater Pottsville Area Sewer
Authority
City of Pottsville
Schuylkill County, PA

Served as project engineer for design, preparation of contract documents and listed permits, bid phase services, and construction phase support services for collection system modifications as described in approved GPASA Act 537 Plan Update; responsible for preparation of regional sewage facilities plan.

**Bonneauville Wastewater
Treatment Plant
Upgrade/Expansion**
Bonneauville Borough
Municipal Authority
Adams County, PA

Served as project engineer for update of Act 537 Sewage Facilities Plan and design and construction management services for upgrade and expansion of existing wastewater treatment plant from 0.15 to 0.33 MGD including unit process design and construction cost estimating.

**Borough of Chambersburg
Sewage Facilities Plan**
Borough of Chambersburg
Franklin County, PA

Served as project manager for update of Regional Sewage Facilities Plan and design, bidding, construction management and operation consultation services; responsible for preparation and implementation of Regional 537 Plan.

**Chambersburg Pump Station
Expansion**
Borough of Chambersburg
Franklin County, PA

Served as project manager for upgrade design and construction of secondary effluent pumps for wastewater treatment plant; responsible for design, bid and construction phase services.

**Wastewater Collection,
Conveyance and Treatment
System**
City of Lancaster
Lancaster County, PA

Served as project manager for 15 years for dozens of projects related to City's wastewater collection, conveyance and treatment system including turn-of-century combined collection system, five pump stations, and 32 MGD advanced, pure oxygen WWTP; specific projects included facilities planning, short-term and long-term CSO planning, in-vessel biosolids composting and odor control, grit removal, pump station upgrades, biological nutrient removal, hydraulic studies, and inter-municipal agreements.

**City of Lancaster DPW,
Wastewater Facilities (537) Plan
and BNR Pilot Plant**
City of Lancaster
Lancaster County, PA

Served as project manager for 537 Plan (Wastewater Facilities) and design of and start-up of BNR pilot plant on one process train in City's WWTP



THOMAS V. YASHINSKY
Vice President

CREDENTIALS:

Certified Building Code Official/Pennsylvania Department of Labor & Industry/2006/Certification No. 000057
B.S./Earth Science/The Pennsylvania State University/1975

Forty-two years of municipal planning and consulting, environmental science, and residential, commercial, and industrial development experience including drafting of comprehensive plans, sewage facilities plans, and land use ordinances, floodplain management, building code enforcement, permitting, and conceptual plan development.

Planner
Schuylkill County (PA) Planning
Commission

Served as planner, responsible for day-to-day activities including responding to inquiries about county-wide comprehensive plan, local zoning issues, and subdivision and land development planning issues; prepared land use plans for eight interchanges along Interstate 81 and amended County zoning ordinance to reflect land uses proposed around interchange areas; managed hazardous waste inventory survey funded via PA DEP grant, responsible for site investigations and data collection on suspicious hazardous waste dumping sites identified via aerial photography (subsequently visited sites to confirm illegal dumping practices and prepared reports); and chaired committee to study impact of development in agricultural areas, responsible for research and drafting of study chapter about topic for inclusion in Soil Conservation District's 10-year planning document.

Municipal Consulting
Various Municipalities
Schuylkill County, PA

Serves as planning and engineering consultant to numerous municipalities, responsible for review of subdivision and land development plans submitted by developers to determine compliance with municipal ordinances and standard engineering and land use practices, administration of roadway capital improvement programs, sewage facility planning, building code enforcement, coordination, review and refinements to land use regulations and documents such as comprehensive plans and floodplain, zoning, and subdivision and land development ordinances, oversight of emergency management activities, and functioning as sewage enforcement officer; current municipalities include Delano Township, East Norwegian Township, Gilberton Borough, Mechanicsville Borough, New Philadelphia Borough, Norwegian Township, Rush Township, Ryan Township, and Orwigsburg Borough.

Plan Reviews
Various Municipalities
Berks & Schuylkill Counties, PA

Reviewed land development and subdivision plans submitted by developers to determine compliance with municipal ordinances and standard engineering and land use practices on behalf of following municipalities:

- Caernarvon Township (Berks County, PA)
- North Manheim Township (Schuylkill County, PA)
- Walker Township (Schuylkill County, PA)
- West Brunswick Township (Schuylkill County, PA)

Building Code Enforcement
Various Municipalities
Schuylkill County, PA

Administered code enforcement activities in accordance with PA Uniform Construction Code on behalf of following municipalities:

- North Manheim Township
- Walker Township
- West Brunswick Township
- Borough of Orwigsburg



MICHAEL J. BINGHAM, P.E.
Assistant Vice President

CREDENTIALS:

Professional Engineer: PA, 2016; MD, 2016
B.S./Civil Engineering/Clemson University/2010

Ten years of civil engineering experience including site grading, land development, stormwater management, pipe network analysis, NPDES permitting, erosion and sediment control design and permitting, guide rail design, roadway design, construction cost opinions, feasibility studies, structural design, and zoning enforcement; software applications experience includes AutoCAD Civil 3D, Hydraflow, Autodesk Storm and Sanitary Analysis, and Microsoft Office.

<p>Stormwater & Site Improvements John F. Martin & Sons Womelsdorf Borough Berks County, PA</p>	<p>Completed civil/site design for new wastewater pretreatment plant at meat packaging facility, responsible for grading drive aisles, swales, and infiltration basins to minimize earthwork; oversaw on-site infiltration testing; prepared stormwater management report and designed stormwater management and erosion and sediment control facilities.</p>
<p>Lancaster Farmland Trust Rain Garden Lancaster Farmland Trust Lancaster County, PA</p>	<p>Served as client representative and project manager for designing stormwater plans to capture and route offsite stormwater away from existing Farmland Trust office building; analyzed current site conditions and developed drainage area maps to determine extent of off-site drainage flowing towards the office building; enlarged current swale and designed rain garden to reduce stormwater runoff.</p>
<p>South Water Storage Tank Lancaster Township Lancaster County, PA</p>	<p>Designed stormwater plans to meet municipal ordinance and state stormwater requirements for new development; analyzed current site conditions through 100-year storm; designed swales, infiltration BMPs, and prepared stormwater calculations to demonstrate peak rate and volume reductions meet state and local standards; prepared subdivision and land development, post construction stormwater, and erosion and sediment control plans.</p>
<p>Grandview Park Stormwater Rehabilitation Mount Joy Borough Lancaster County, PA</p>	<p>Designed stormwater management best management practices throughout site to minimize discharge onto adjacent properties; designed new vegetated swale to maximize infiltration and minimize ponding; designed culvert to accept 100-year storm flow through proposed vegetated swale.</p>
<p>Stormwater & Site Improvements John F. Martin & Sons Womelsdorf Borough Berks County, PA</p>	<p>Completed civil/site design for new parking facilities at meat packaging facility, responsible for grading drive aisles, swales, and infiltration facilities to minimize earthwork; oversaw on-site infiltration testing; prepared stormwater management report, NPDES permitting, and designed stormwater management and erosion and sediment control facilities.</p>
<p>Willow Glen North Residential Development Stormwater Improvements Ontelaunee Township Berks County, PA Forino Co., LP</p>	<p>Analyzed stormwater report and as-built plans to design properly-sized infiltration basin to replace existing undersized basin on site; project included regarding basin bottom, enlarging basin, maintaining existing inlet and outlet structures, increasing concrete low-flow channel, and site analysis during storm events.</p>
<p>Fair Hill Water System Upgrade Fair Hill Cecil County, MD</p>	<p>Designed stormwater plans and reports to meet MDE and Cecil County requirements; analyzed current site conditions through 100-year storm; designed BMPs to meet required ESDv and post-development runoff.</p>



WILLIAM L. BOHNER, JR., P.E.
Assistant Vice President

CREDENTIALS:

Professional Engineer: PA, 1995; MD, 1999

B.S./Mechanical Engineering/University of Pittsburgh/1987

Seminar/NPDES Phase II Stormwater Management Permitting & Implementation Process/

PA DEP Southeast Region & Chester County Conservation District/October 2002

“Keeping the Water Flowing,” Township Engineer, Vol. 17, No. 1, First Quarter 2009

Thirty-four years of experience in wastewater system evaluation and sewage facilities planning, wastewater collection/conveyance system design, water and wastewater system hydraulic modeling, facilities construction, and project administration.

<p>PA Act 537 Sewage Facilities Plan East Whiteland Township, Chester County, PA</p>	<p>Prepared Act 537 Plan/Special Study to address wastewater planning needs associated with current and future flows and related impacts to planned upgrades for wastewater conveyance system along Lee Boulevard and Sidley Road; project involved establishing wastewater conveyance needs, development of future flow projections, communication with Charlestown Township regarding planned future flow needs, capacity assessment of proposed conveyance infrastructure, and Plan/Special Study submission for review and approval.</p>
<p>PA Act 537 Sewage Facilities Plan East Coventry Township Chester County, PA</p>	<p>Preparing Act 537 Plan/Special Study to address wastewater planning needs associated with Parker Ford planning area; project involves completion of on-lot disposal system surveys, well water sampling, projecting future flow needs, and determining most favorable means (cost effective and environmental) to provide public sewer service for planning area.</p>
<p>PA Act 537 Sewage Facilities Plan Bethlehem Township Municipal Authority Northampton County, PA</p>	<p>Preparing Act 537 Plan/Special Study to address wastewater planning needs associated with Green Pond Road/Church Road planning area; project involves projecting future flow needs and determining most favorable means (cost effective and environmental) to provide public sewer service for proposed residential, existing residential, and proposed commercial development in planning area.</p>
<p>Electrical Substation Upgrade Matsunk WPC Upper Merion Township Montgomery County, PA</p>	<p>Participated as project manager for design, bidding assistance, and construction services for upgrade to Matsunk Water Pollution Control Center’s electrical substation which included demolition of existing pad mounted transformer and H-Frame Structure, installation of new pad mounted transformer, switchboard, and switchgear.</p>
<p>Influent Screenings Building Replacement Project Matsunk WPC Upper Merion Township Montgomery County, PA</p>	<p>Participated as project manager for the design, bidding assistance, and construction services for replacement of influent screenings building at Matsunk Water Pollution Control Center; design included removal of existing metal building enclosure, modifications to existing concrete structure, installation of new masonry block structure, new precast roof system, new doors, new windows, new heating and ventilation equipment, and new electrical equipment and lighting.</p>
<p>Fritz Island Wastewater Treatment Plant City of Reading Berks County, PA</p>	<p>Assisted with upgrade to 28.0 MGD wastewater treatment plant; designed two new dual stage scrubber odor control facilities, chlorination system upgrades, and HVAC system for new solids handling building and chlorine facility structures.</p>



BRYAN D. KULAKOWSKY, P.E.
Assistant Vice President

CREDENTIALS:

Professional Engineer: PA, 2004; MD, 2008
B.S./Civil Engineering/Widener University/1996

Twenty-two years of experience in applied civil engineering design including site layout, sanitary sewer design, stormwater management design, storm sewer conveyance, design, utility coordination, and erosion and sediment control design; land development project reviews for commercial, institutional, industrial, and residential sites; project presentations; and expert testimony before Municipal Boards and Commissions.

Municipal Engineer
Various Municipalities, PA

Serves as municipal engineer responsible for performing review of subdivision, land development and stormwater management permit applications relative to ordinances, applicable regulations and generally accepted engineering practices; preparing assessment surveys of public facilities and infrastructure including roads, sanitary sewer collection systems and storm sewers; preparing reports, planning documents and applications for submission to State and Federal agencies; assisting Public Works with design, bid documents, and construction management on capital improvement projects including road repair and paving, pavement widening, culvert replacements, manhole rehabilitations, sewer treatment plant retrofits and park and playground improvements; maintaining active communication with contractors, engineers, surveyors, government agencies, and public for engineering, surveying or construction issues.

- South Coatesville Borough, Chester County, PA
- Caln Township, Chester County, PA
- West Nantmeal Township, Chester County, PA
- West Vincent Township, Chester County, PA

**Township Stormwater & Special
Projects Engineer**, East
Brandywine Township Chester
County, PA

Managed, reviewed, and planned stormwater infrastructure design and construction for compliance with Township Ordinances, applicable regulations and generally accepted engineering practices; developed, administered and enforced policies, rules, and regulations of public stormwater infrastructure for existing, proposed, and new construction.

**Schuylkill River Greenway
Association**
Borough of Pottstown
Berks & Schuylkill Counties, PA

Served as appointed engineer for sections of the Schuylkill River Trail in Berks County and Schuylkill County including The Leesport Trail Project, Safe Crossings Initiative, and PA 724 and Thun Section of the Schuylkill River Trail near Monocacy Station; the Schuylkill River National & State Heritage Area is managed by the Schuylkill River Greenway Association (SRGA), a 501(c)3 non-profit.

Township Engineer
Newlin Township
Chester County, PA

Served as township engineer responsible for performing review of subdivision, land development and stormwater management permit applications relative to Township ordinances, applicable regulations and generally accepted engineering practices; prepared assessment surveys of public facilities and infrastructure including roads, sanitary sewer collection systems and storm sewers; prepared reports, planning documents and applications for submission to State and Federal agencies.



NATHANIEL J. MERKEL, L.O. GISP
Assistant Vice President

CREDENTIALS:

Certified GIS Professional/GIS Certification Institute/2015

Water System Operator, Class E; PA, 2015

B.S./Geo-Environmental Science/Shippensburg University/2010

Wetland Delineation Training Program Completion Certificate/Richard Chin Environmental Training Inc./2015

Ten years of experience in coordination and management of geographic information system projects for mapping of stormwater, water, and wastewater infrastructure, responsible for field data collection and ArcGIS mapping of collection/distribution systems, including features such as inlets, curb stops, and valves; experience includes extensive work with municipal officials, including boroughs, townships, and authorities, as well as wetland identification and delineation; has also worked closely with PA DEP and community water systems throughout Commonwealth of PA to create and implement source water protection plans; has developed and updated emergency response plans and operation and maintenance plans, performed security vulnerability assessments, and completed and submitted WREN source water protection grant applications.

Source Water Protection Plan
Ephrata Area Joint Authority
Ephrata & Denver Boroughs
Ephrata & East Cocalico
Townships
Lancaster County, PA

Updated existing source water plan for service area within four municipalities; responsible for windshield survey of contamination sources; conducting education-oriented visits to critical potential sources of contamination within Authority's watershed; made recommendations about spill response signage placement and location map; provided desktop analysis to facilitate best management practices implementation, and coordinated with steering committee with respect to proposed public outreach events.

MS4 Stormwater GIS Mapping
East Petersburg Borough
Lancaster County, PA

Utilized global positioning system to mapping grade accuracy; collected location data and attribute information for private stormwater facilities; updated existing municipal separate storm sewer system (MS4) mapping to include location data and feature class attributes for approximately 85 private catch basins and five private retention/detention basins; updated feature class symbology of Borough's existing stormwater MS4 to differentiate among Borough, PennDOT, and private stormwater assets; utilized ArcGIS software to analyze and export resultant private stormwater facility locations into geo-database format; integrated Borough's existing stormwater asset location data into geo-database format; prepared mapping including oversized paper color wall map of stormwater collection system.

MS4 Stormwater GIS Mapping
New Garden Township
Chester County, PA

Utilized global positioning system to mapping grade accuracy; collected location data and attribute information for private stormwater facilities and developed municipal separate storm sewer system (MS4) map of Township's existing stormwater MS4 structures to differentiate among Township, PennDOT, and private stormwater assets; utilized ArcGIS software to analyze and export resultant private stormwater facility locations into geo-database format; integrated Township's existing stormwater asset location data into geo-database format; prepared mapping for compliance with Township's MS4 permit.

Wetlands Delineation Analysis
Easttown Township
Chester County, PA

Performed wetlands identification and analysis for Sharps Woods Gravity Main replacement in Easttown Township; assessed hydrology, vegetation, and soils to determine wetland boundaries within project area.

On-Call GIS Consulting
Spring Grove Borough
York County, PA

Provided GIS technical assistance and support on as-needed basis as well as develop permit tracking tool, rental inspection reporting tool, and blighted property inspection tool.



EDWARD C. OVERBERGER
Assistant Vice President

CREDENTIALS:

B.S./Business Administration and Marketing/Bloomsburg University

Thirty-six years of managerial and leadership experience in public and private sectors including service as elected official; experience in manufacturing sector of building products and construction including bridge and waste water treatment plant construction; client specialist in consultative environment with experience in funding opportunities for municipalities including economic development, environmental, road/bridge construction, local programs, matching and refund/rebate programs. Client Manager specialist in consultative environment including experience with municipal management, personnel management, financial planning, budgeting, public works, and developing funding opportunities.

Client Liaison
Various Clients

Serves as client liaison for engineering, consulting, and construction projects; responsible for assignment and coordination of staff members to ensure project and review timelines are met; facilitates maintaining client budgets and schedules during planning, design, and construction phases. Current clients include: Kennett Square Borough, Royersford Borough, Shoemakersville Borough, Slatington Borough, and Mount Pocono Municipal Authority.

Chairman of Board of Supervisors
District Township,
Berks County, PA

Serving as board chairman of second class township supervisors; responsible to application of legislative powers, executive powers, and quasi-judicial role of Chairman; responsible for managing township personnel, boards, and commissions; financial responsibility for establishing budgets, taxes, purchasing of capital equipment, contracts, bonds; responsible for financial stresses associated with Federal and State mandates including stormwater management, MS4 compliance, floodplain regulations, sewage management, property and maintenance codes, land use and controls; serving as project manager/facilitator for economic development consulting association.

Township Supervisor/Roadmaster
District Township
Berks County, PA

Responsible for oversight of Assistant Roadmaster who performs daily functions; designing maintenance plans for signage, roads, and bridges; oversight of maintenance plan for recreational facilities and park lands; oversight of Emergency Management Coordinator and outreach to local fire and ambulance companies serving the township.

Chairman of Township Planning Commission
District Township,
Berks County, PA

Served as chairman on second class township planning commission; familiar with process to create or update existing Comprehensive Plans, Zoning Ordinances, Sub-Division and Land Development Ordinances along with planning issues such as residential and commercial development, infrastructure improvements, plan reviews, escrows; experience managing the dynamic relationships between commission members, engineers and attorneys.

MEMBERSHIPS

- PSATS - Pennsylvania Association of Township Supervisors
- Greater Reading Chamber of Commerce – Transportation Committee
- Tri-County Chamber of Commerce - Pro-Business Council
- CELG - Center for Excellence in Local Government at Albright
- Intergovernmental Partnership Committee - CELG
- BCW&SA Berks County Water & Sewer Association
- Spotted Lanternfly Community Engagement Task Force. Appointed by the Secretary of Pennsylvania Department of Agriculture. Act as liaison to engage local governments affected by the invasive species, and facilitate communication with local elected officials.
- Berks County Association of Township Officials - Chairman of Resolutions Committee
- 1st Vice President, Berks County Association of Township Officials
- Eastern Pennsylvania Water Pollution Control Operators Association



ROBERT R. PINGAR, P.E.
Assistant Vice President

CREDENTIALS:

Professional Engineer: PA, 1987

B.S./Mining Engineering/Civil Engineer Minor/The Pennsylvania State University/1981

A.S. Engineering, Surveying Technology/The Pennsylvania State University/1977

Thirty-nine years of experience as a project manager and a township manager, in engineering, planning and public administration, with municipal, authority, county, state, and public utility agencies on wide variety of public works projects; extensive experience in public works project management, engineering department management, engineering and local government office management, and client account management; work closely with elected officials, municipal managers, property owners, businesses, institutions, regulatory agencies and other stakeholders to secure project permits and approvals.

- Municipal Engineer
Various Municipalities**
- Served as municipal engineer responsible for performing engineering and planning review of subdivision and land development applications and stormwater management permit applications. Prepared assessment surveys of public facilities and infrastructure including roads, sanitary sewer collection systems and storm sewers; prepared reports, planning documents and applications for submission to State and Federal agencies; assisted Public Works departments with capital improvement projects including scope of work, design, bid documents, and construction management. Projects included road repair and widening, curb and sidewalk programs, culvert replacements, manhole rehabilitations, and parks and recreation improvements. Maintained active communications with contractors, engineers, surveyors, government agencies, and public for engineering, surveying or construction concerns.
- Westtown Township, Chester County, PA
 - Springfield Township, Delaware County, PA
 - Horsham Township, Montgomery County, PA
 - Lower Frederick Township, Montgomery County, PA
 - Pennel Borough, Bucks County, PA

**Township Manager
& Director of Engineering
Westtown Township
Chester County, PA**

Chief Executive Officer for an 11,000 resident Second Class Township in the in southeastern Pennsylvania. Managed a 13-member staff including the Directors of Finance, Public Works, and Planning and Zoning. Also co-managed the 30-member Westtown East Goshen Regional Police Department. Westtown was governed by a three-member Board of Supervisors and had an annual budget of \$17M. In the capacity of Director of Engineering, managed the activities of the appointed municipal, stormwater management and sewer engineers, ensuring that township road, stormwater management, sewer and park projects were being started and completed, and that reviews of subdivisions and land development applications were completed and the subsequent construction was being satisfactorily inspected. Maintained close working relationships with teams of project professionals, including engineers, attorneys, architects, and construction managers.

**Forensic Engineer
& Expert Witness**

Provided expert witness and litigation support services for law firms, insurance companies and municipalities. Lawsuits were related to loss of property development rights, traffic accidents, slip/trip/falls, and property loss claim assessments. Evaluated the design, construction, and maintenance of subdivisions and land developments, highways, railroad crossings, public utilities, parking lots, work zones, and recreation facilities, and performed traffic accident reconstructions. Accepted as an expert witness in state and federal courts in the fields of highway design and maintenance, traffic safety, stormwater management, and construction management.

A large blue arrow pointing to the right, containing the text "ATTACHMENT E" in white, bold, uppercase letters.

ATTACHMENT E

ATTACHMENT E (Item 11 – Technical Fitness)

STAFF CREDENTIALS (NAME, STATE(S)/YEAR FIRST REGISTERED/DISCIPLINE/REGISTRATION NUMBER)

Barry, Randy L.

Pennsylvania/2007/Wastewater System Operator, Class A,E, Subclass 1,2,3,4/T3107
Pennsylvania/2004/Wastewater System Operator, Class B,E, Subclass 1,2,3,4/T3107

Barton, Shawn, E.

PennDOT Northeast Center of Excellence for Pavement Technology/2018/Bituminous Certification/ID No. 560933

Becker, Darrell L.

Pennsylvania/1986/Professional Engineer/035629-E

Bingham, Michael J.

Pennsylvania/2016/Professional Engineer/PE084973
Maryland/2016/Professional Engineer/49804

Bishop, Jenna

Pennsylvania/2017/Engineer-in-Training/ET023582
Safety-Kleen/2018/EPA RCRA Hazardous Waste Management Certification/ID No. 47747
Safety-Kleen/2018/DOT Hazardous Materials Shipping, Receiving & Transportation General Awareness Certification/ID No. 47444

Bloschichak, Andrew

Certified Associate Programmer – CPA of the C++ Programming Language/2016 Certificate
Oracle Certified Associate, Java SE7 Programmer/2017 Certificate

Bohner, William L., Jr.

Pennsylvania/1995/Professional Engineer/046111-E
Maryland/1999/Professional Engineer/24279

Boyer, Raymond R.

PennDOT Northeast Center of Excellence for Pavement Technology/2014/Bituminous Field Testing Technician Certification/ID No. 867

Brenner, Kelly J.

Pennsylvania/2018/Professional Engineer/088874
Pennsylvania/2011/Engineer-in-Training/ET015819
Pennsylvania/2016/Wastewater System Operator, Class A,E, Subclass 1,2,3,4/S18808
Pennsylvania/2014/Wastewater System Operator, Class C,E, Subclass 1,2,3,4/S18808
PA DEP/October 19, 2011/Land Application of Biosolids Training Course Completion Certificate

Brightbill, Ann C.

Pennsylvania Notary/2015/ID No. 1290177

Brown, G. Matthew

Pennsylvania/1982/Professional Engineer/31483-E
New Jersey/1984/Professional Engineer/GE29712
Delaware/1994/Professional Engineer/9943

Maryland/1991/Professional Engineer/18967
New York/1987/Professional Engineer/064141-1

Cantlin, Jeffrey R.

PA Department of Labor & Industry/Building Code Official – Certification Category 29/No. 003474
PA Department of Labor & Industry/Residential Building Inspector – Certification Category 10/No. 003474
PA Department of Labor & Industry/Residential Mechanical Inspector – Certification Category 12/No. 003474
PA Department of Labor & Industry/Residential Plumbing Inspector – Certification Category 13/No. 003474
PA Department of Labor & Industry/Residential Energy Inspector – Certification Category 14/No. 003474

Clark, Stephen D.

Maryland/2007/Erosion and Sediment Control Training Program/32344

Clay, Stephanie G.

Pennsylvania/1992/Professional Engineer/PE-043034-E
Maryland/2003/Professional Engineer/29442
Tennessee/Professional Engineer/117368
U.S. DOT/2010/Hazardous Materials in Transportation 49 CFR Parts 171 – 178 Training Course Completion Certificate
Safety-Kleen/2018/EPA RCRA Hazardous Waste Management Certification/ID No. 47752
Safety-Kleen/2018/DOT Hazardous Materials Shipping, Receiving & Transportation General Awareness Certification/ID No. 47740

Darker, Shannon M.

PA Department of Labor & Industry/2018/Building Code Official – Certification Category 29/No. 006370
Pennsylvania/2010/Notary Public/1254663

Dennis, Jimmy L.

Pennsylvania/2004/Water System Operator, Class A,E, Subclass 7,8,9,10,11,12,13,14/W9317

Dietrich, Larry A.

Pennsylvania/1983/Professional Engineer/32587-E

Durham, Andrew C.

Maryland/2007/Erosion and Sediment Control Training Program/32337

Dziedzic, Edward

Pennsylvania/2000/Professional Geologist/PG003819E

Flaharty, Brady L.

Pennsylvania/2000/Professional Engineer/055782-E

Fox, Colin R.

University of Pittsburgh/GIS Certification Institute/2016/Certificate
University of Pittsburgh/General Site Worker Certificate/2015/ID No. 2015-11

Giunta, Philip N.
 Pennsylvania/Wastewater System Operator, Class A,E, Subclass 1,2,3,4/T2806
 Pennsylvania/Water System Operator, Class A,E, Subclass 7,8,11,12/W14347

Harman, Mark D.
 Pennsylvania/2009/Professional Geologist/PG004875

Hebner, Mark D.
 Pennsylvania/1987/Professional Engineer/PE036640E
 Maryland/2007/Professional Engineer/34871

Jackson, Jay R.
 Pennsylvania/1982/Professional Engineer/PE 031589-E
 Maryland/1991/Professional Engineer/18770
 Pennsylvania Engineering Law/Certificate/2013
 OSHA/2011/2-Hour Confined Space Safety Course Completion Certificate/No. 88264

Jamieson, III, Edwin D.
 Pennsylvania/2017/Wastewater System Operator Class A,E, Subclass 1,2,3,4/193246

Johnson, Eric A.
 Pennsylvania/2016/Wastewater System Operator Class C, Subclass 1/326269

Kee, David T.
 Pennsylvania/2002/Professional Engineer/PE061163

Kline, David C.
 Pennsylvania/2013/Wastewater System Operator, Class A,E, Subclass 1,4/S17560

Kopp, Douglas
 Pennsylvania/Sewage Enforcement Officer/2018/Certificate No. 03941

Kulakowsky, Bryan D.
 Pennsylvania/Professional Engineer/2004/ID No. PE063066

Lechene, Shawn R.
 PA Department of Labor & Industry/Building Code Official – Certification Category 29/No. 000094
 PA Department of Labor & Industry/2002/Residential Building Inspector - Certification Category 10/No. 000094
 PA Department of Labor & Industry/2002/Residential Electrical Inspector - Certification Category 11/No. 000094
 PA Department of Labor & Industry/2002/Residential Mechanical Inspector - Certification Category 12/No. 000094
 PA Department of Labor & Industry/2002/Residential Plumbing Inspector - Certification Category 13/No. 000094
 PA Department of Labor & Industry/2002/Commercial Building Inspector – Certification Category 15/No. 000094
 PA Department of Labor & Industry/2002/Commercial Electrical Inspector – Certification Category 19/No. 000094
 PA Department of Labor & Industry/2002/Commercial Mechanical Inspector - Certification Category 20/No. 000094
 PA Department of Labor & Industry/2002/Commercial Plumbing Inspector - Certification Category 21/No. 000094

PA Department of Labor & Industry/2004/Accessibility Inspector & Plans Examiner -
Certification Category 23/No. 000094
PA Department of Labor & Industry/2002/Commercial Building Plans Examiner - Certification
Category 24/No. 000094
PA Department of Labor & Industry/2004/Commercial Electrical Plans Examiner - Certification
Category 25/No. 000094
PA Department of Labor & Industry/2004/Commercial Mechanical Plans Examiner –
Certification Category 26/No. 000094
PA Department of Labor & Industry/2004/Commercial Plumbing Plans Examiner – Certification
Category 27/No. 000094
Master Code Official/1999/BOCA International
Certified Building Official/1999/International Code Council

McMullen, William N.

Pennsylvania/1991/Sewage Enforcement Officer/02349
PA Department of Labor & Industry/2004/Building Code Official – Certification Category
29/No. 000056
PA Department of Labor & Industry/2004/Residential Building Inspector - Certification
Category 10/No. 00056
PA Department of Labor & Industry/2004/Commercial Building Inspector - Certification
Category 15/No. 00056
PA Department of Labor & Industry/2004/Commercial Plumbing Inspector - Certification
Category 21/No. 00056
PA Department of Labor & Industry/2007/Accessibility Inspector & Plans Examiner - Certification
Category 23/No. 000056
PA Department of Labor & Industry/2010/Residential Energy Inspector – Certification Category
14/No. 000056
PA Department of Labor & Industry/2013/Residential Mechanical Inspector – Certification
Category 12/No. 000056
PA Department of Labor & Industry/2016/Residential Plumbing Inspector – Certification Category
13/No. 000056

Merkel, Nathaniel J.

Pennsylvania/2015/Water System Operator, Class E/W20636
GIS Certification Institute/2015/Certified GIS Professional/90865

Morrison, Alex J.

Pennsylvania/1990/Professional Engineer/PE-040674-E

Mott, John A.

Pennsylvania/1986/Professional Engineer/PE035801E
New Jersey/1988/Professional Engineer/24GE03292100
West Virginia/1995/Professional Engineer/012894
South Carolina/1997/Professional Engineer/18622
North Carolina/1998/Professional Engineer/024295
Maryland/2018/Professional Engineer/52626

Moulds, Carol L.

Pennsylvania/2007/Engineer-in-Training/ET010178

Newhams, Francis M

IAEI Professional Member/2016/No. 7076537

PA Department of Labor & Industry/Building Code Official – Certification Category 29/No. 000371

PA Department of Labor & Industry/Residential Electrical Inspector - Certification Category 11/ No. 000371

PA Department of Labor & Industry/Residential Mechanical Inspector - Certification Category 12/ No. 000371

PA Department of Labor & Industry/Residential Energy Inspector - Certification Category 14/ No. 000371

PA Department of Labor & Industry/Commercial Building Inspector – Certification Category 15/ No. 000371

PA Department of Labor & Industry/Commercial Electrical Inspector – Certification Category 19/ No. 000371

PA Department of Labor & Industry/Commercial Mechanical Inspector - Certification Category 20/ No. 000371

PA Department of Labor & Industry/Commercial Plumbing Inspector - Certification Category 21/ No. 000371

PA Department of Labor & Industry/Energy Inspector - Certification Category 22/ No. 000371

PA Department of Labor & Industry/Accessibility Inspector & Plans Examiner - Certification Category 23/No. 000371

PA Department of Labor & Industry/Commercial Building Plans Examiner - Certification Category 24/ No. 000371

PA Department of Labor & Industry/Commercial Electrical Plans Examiner - Certification Category 25/ No. 000371

PA Department of Labor & Industry/Commercial Mechanical Plans Examiner – Certification Category 26/ No. 000371

PA Department of Labor & Industry/Commercial Plumbing Plans Examiner – Certification Category 27/ No. 000371

PA Department of Labor & Industry/Commercial Energy Plans Examiner – Certification Category 27/ No. 000371

International Code Council/Commercial Energy Inspector/No. 5141260

International Code Council/Commercial Building Inspector/No. 5141260

International Code Council/Commercial Electrical Inspector/No. 5141260

International Code Council/Residential Mechanical Inspector/No. 5141260

International Code Council/Combination Inspector/No. 5141260

International Code Council/Commercial Plumbing Inspector/No. 5141260

International Code Council/Electrical Plans Examiner/No. 5141260

International Code Council/Plumbing Plans Examiner/No. 5141260

International Code Council/Commercial Energy Plans Examiner/No. 5141260

International Code Council/Residential Electrical Inspector/No. 5141260

International Code Council/Residential Building Inspector/No. 5141260

International Code Council/Residential Plumbing Inspector/No. 5141260

International Code Council/Certified Building Official/No. 5141260

International Code Council/Residential Energy Inspector/Plans Examiner/No. 5141260

International Code Council/Master Code Professional/No. 5141260

International Code Council/Commercial Mechanical Inspector/No. 5141260

International Code Council/Residential Electrical Inspector/No. 5141260

International Code Council/Mechanical Plans Examiner/No. 5141260

International Code Council/Combination Plans Examiner/No. 5141260

International Code Council/Building Plans Examiner/No. 5141260

International Code Council/Building Inspector/No. 5141260

International Code Council/Mechanical Inspector/No. 5141260

International Code Council/Electrical Inspector/No. 5141260

International Code Council/Plumbing Inspector/No. 5141260
International Code Council/Building Code Specialist/No. 5141260
International Code Council/Plumbing Code Specialist/No. 5141260
International Code Council/Mechanical Code Specialist/No. 5141260
International Code Council/Electrical Code Specialist/No. 5141260
International Code Council/Residential Combination Inspector/No. 5141260
International Code Council/Commercial Combination Inspector/No. 5141260

Panther, Bryan T.

Maryland/2011/Professional Engineer/34458
Pennsylvania/2013/Professional Engineer/PE080933

Ruffini, Paul F.

Pennsylvania/2003/Wastewater System Operator, Class A,E, Subclass 1,2,3,4/S6899
Pennsylvania/1983/Class A Type 1 Wastewater Treatment Plant Operator/S6899

Schlott, Jr., David M.

Pennsylvania/1999/Professional Engineer/PE-054218-E
Maryland/2015/Professional Engineer/47219
Virginia/2017/Professional Engineer/0402058360

Smith, Bradley D.

Pennsylvania/2004/Professional Engineer/PE052998

Smith, D. Douglas

Maryland/Professional Engineer/29210

Spellman, Matthew

PA Department of Labor & Industry/Building Code Official – Certification Category 29/No. 005747

PA Department of Labor & Industry/Residential Building Inspector - Certification Category 10/No. 005747

PA Department of Labor & Industry/Residential Electrical Inspector - Certification Category 11/No. 005747

PA Department of Labor & Industry/Commercial Building Inspector – Certification Category 15/No. 005747

PA Department of Labor & Industry/Commercial Mechanical Inspector - Certification Category 20/No. 005747

PA Department of Labor & Industry/Commercial Plumbing Inspector - Certification Category 21/No. 005747

PA Department of Labor & Industry/Commercial Energy Inspector - Certification Category 22/No. 005747

PA Department of Labor & Industry/Accessibility Inspector & Plans Examiner - Certification Category 23/No. 0057547

International Code Council/Commercial Building Inspector/No. 8125434

International Code Council/Commercial Plumbing Inspector/No. 8125434

International Code Council/Accessibility Inspector/Plans Examiner/No. 8125434

International Code Council/Commercial Energy Inspector/No. 8125434

International Code Council/Residential Electrical Inspector/No. 8125434

International Code Council/ICC/AACE Property Maintenance and Housing/No. 8125434

International Code Council/Commercial Mechanical Inspector/No. 8125434

International Code Council/Residential Building Inspector/No. 8125434

International Code Council/Building Inspector/No. 8125434

IAEI Inspector Member/2015/ No. 7081748

Underkoffler, Bradley
Pennsylvania/2018/Engineer-in-Training/ET024784

Van Horn, Adam M.
OSHA/2007/30-Hour Construction Safety & Health Course Completion Certificate/No. 600280900
OSHA/2011/2-Hour Confined Space Safety Course Completion Certificate/No. 86849
OSHA/2013/Excavation Safety for Competent Person Training Certificate
PA/Class A Driver License, expires 01/25/2018

Walasavage, David F.
Pennsylvania/2004/Professional Engineer/PE061959
PennDOT/2018/Bridge Inspection Refresher Course

Warfel, Matthew D.
Pennsylvania/2008/Professional Engineer/PE075421
Maryland/2012/Professional Engineer/42751

Watt, Renee
Pennsylvania/2018/Water System Operator Class E/ID No. 319022

White, Scott A.
OSHA/2010/30-Hour Construction Safety & Health Course Completion Certificate/No. 15-600543709



Municipal Organizations

MUNICIPAL ORGANIZATIONS

Our staff belongs to a multitude of organizations and receives municipal publications from these organizations, as well as others.

PROFESSIONAL

AMERICAN ACADEMY OF ENVIRONMENTAL ENGINEERS

G. Matthew Brown - Diplomate

AMERICAN CONCRETE INSTITUTE

Y. Frank Chen

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

John A. Mott

AMERICAN PUBLIC WORKS ASSOCIATION

Carol L. Moulds - Lancaster County (PA) Branch
Vice President

AMERICAN SOCIETY OF CIVIL ENGINEERS

Y. Frank Chen
Carol L. Moulds
John A. Mott
Bryan T. Panther
Bradley D. Smith

AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS

William L. Bohner, Jr.

AMERICAN SOCIETY OF HIGHWAY ENGINEERS

David F. Walasavage

AMERICAN WATER WORKS ASSOCIATION

Jimmy L. Dennis
Larry A. Dietrich
Bryan T. Panther
Bradley D. Smith

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Y. Frank Chen

BERKS COUNTY WATER AND SEWER ASSOCIATION

David T. Kee
Edward C. Overberger
David M. Schlott, Jr.
Bradley D. Smith

CENTRAL PENNSYLVANIA WATER POLLUTION CONTROL OPERATORS ASSOCIATION

Kelly J. Brenner

CONSERVATION FOUNDATION OF LANCASTER COUNTY (PA)

Darrell L. Becker - Board Member & Treasurer

EASTERN PENNSYLVANIA WATER POLLUTION CONTROL OPERATORS ASSOCIATION

Kelly J. Brenner -
Membership/Directory Committee

Alex J. Morrison

Paul F. Ruffini

David M. Schlott, Jr.

Carolyn F. Giardini -
Young Professionals Committee
Trade Show Committee

GREATER READING CHAMBER OF COMERCE

Edward C. Overberger –
Transportation Committee

LANCASTER COUNTY CONSERVATION DISTRICT

Darrell L. Becker - Associate Director
Erosion & Sedimentation Committee

MARYLAND RURAL WATER ASSOCIATION

Bryan T. Panther

NATIONAL NOTARY ASSOCIATION

Shannon M. Darker

PENNSYLVANIA ASSOCIATION OF NOTARIES

Shannon M. Darker
Ann Brightbill

PENNSYLVANIA BUILDING OFFICIALS CONFERENCE

Donald R. Emert
Shawn R. Lechene

PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOCIATION

G. Matthew Brown

PENNSYLVANIA SECTION, AMERICAN WATER WORKS ASSOCIATION

G. Matthew Brown - Education Committee

PENNSYLVANIA STATE ASSOCIATION OF BOROUGHES

Edward C. Overberger

PENNSYLVANIA STATE ASSOCIATION OF TOWNSHIP SUPERVISORS

G. Matthew Brown
Mark D. Harman



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PENNSYLVANIA WATER ENVIRONMENT ASSOCIATION

Randy L. Barry
Kelly J. Brenner - Editorial Committee
Brady L. Flaharty - Stormwater Committee
Carolyn F. Giardini
Mark D. Harman
David M. Schlott, Jr.
Bradley D. Smith - Stormwater Committee

SOCIETY OF ENVIRONMENTAL ENGINEERS

Thomas J. Quinn

STRUCTURAL ENGINEERING INSTITUTE

John A. Mott (Charter Member)

TRI-COUNTY CHAMBER OF COMMERCE

Edward C. Overberger – Pro-Business Council

WATER ENVIRONMENT FEDERATION

Randy L. Barry
Bryan T. Panther
David M. Schlott, Jr.
Matthew D. Warfel

WATER WORKS OPERATORS ASSOCIATION OF PENNSYLVANIA

G. Matthew Brown - Program Committee,
Past Eastern Director
Jimmy L. Dennis

MOUNT JOY (PA) SONS OF AMERICAN LEGION

Paul F. Ruffini

NATIONAL EAGLE SCOUT ASSOCIATION

Thomas J. Quinn

NORTHWEST SAVINGS BANK ADVISORY BOARD

Thomas V. Yashinsky

PA CLIMATE CHANGE ADVISORY COMMITTEE

Thomas V. Yashinsky - Transportation & Land Use
Subcommittee

PA STATE SENATOR (29TH DISTRICT) DAVID G. ARGALL ADVISORY COMMITTEE

Thomas V. Yashinsky

ROTARY INTERNATIONAL

G. Matthew Brown

SCHUYLKILL COUNTY (PA) CHAMBER OF COMMERCE

Thomas V. Yashinsky -
Transportation Committee Chairperson
Board Member

SPOTTED LATERNFLY COMMUNITY ENGAGEMENT TASK FORCE

Edward C. Overberger

WEST LAMPETER TOWNSHIP BOARD OF SUPERVISORS

Terry L. Kauffman

CIVIC

CELG – CENTER FOR EXCELLENCE IN LOCAL GOVERNMENT AT ALBRIGHT

Edward C. Overberger

MUNICIPAL AUTHORITY OF THE TOWNSHIP OF EAST HEMPFIELD, SOURCE WATER PROTECTION STEERING COMMITTEE (LANCASTER COUNTY, PA)

Mark D. Harman

EAST WHITELAND VOLUNTEER FIRE ASSOCIATION

John A. Mott (Life Member)

EPHRATA (PA) BOROUGH PLANNING COMMISSION

Lola Mowen

LANCASTER (PA) AIRPORT AUTHORITY

G. Matthew Brown

LANCASTER COUNTY (PA) TRANSPORTATION AUTHORITY

Terry L. Kauffman - Chairperson

MANOR TOWNSHIP (LANCASTER COUNTY, PA) PLANNING COMMISSION

Mark D. Harman

MANOR TOWNSHIP (LANCASTER COUNTY, PA) RAILS-TO-TRAILS PLANNING COMMITTEE

Mark D. Harman



BUREAU OF PROFESSIONAL AND OCCUPATIONAL AFFAIRS

P. O. Box 2649

Harrisburg, PA 17105-2649

11/19/2019

License Information

G MATTHEW BROWN

Exton, Pennsylvania 19341

Board/Commission: State Registration Board for Professional Engineers, Land Surveyors and Geologists

Status Effective Date:

LicenseType: Professional Engineer

Issue Date: 08/16/1982

Specialty Type:

Expiration Date: 09/30/2021

License Number: PE031483E

Last Renewal: 09/27/2019

Status: Active

Disciplinary Action Details

No disciplinary actions were found for this license.

This site is considered a primary source for verification of license credentials provided by the Pennsylvania Department of State.

11/19/2019

Delaware's Professional Engineering Licensing Board



DELAWARE ASSOCIATION OF PROFESSIONAL ENGINEERS

92 Rear's Way, Suite 208

New Castle, DE 19720

Phone: 302-323-4588

Email: office@dape.org

Professional Engineer

Professional Engineers

- Home
- How to apply
- New Applicant
- PE Roster
- License Verification

Person Information

Name: G. MATTHEW BROWN
Discipline: CIVIL

Address Information

Address (City, State, Zipcode): LANCASTER, PA, 17601

License Information

License Number: 9943
License Status: ~~Active~~
License Expires: ~~06/30/2020~~

Disciplinary Action History

OFFICIAL DOCUMENT

READ THE FOLLOWING INFORMATION CAREFULLY CONCERNING YOUR LICENSE:

1. SIGN THE WALLET CARD AND CERTIFICATE WHERE INDICATED.
2. DETACH THE WALLET CARD AND CERTIFICATE AT PERFORATION.

Pennsylvania Licensing System (PALS)

Visit our website at: www.pals.pa.gov to
renew your license, change your personal or
license address, or order duplicate licenses.

BRADY L FLAHARTY
181SHEA LANE
GLENMOORE, PA 19343

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0886878

License Type
Professional Engineer

BRADY L FLAHARTY
181SHEA LANE
GLENMOORE, PA 19343



License Status
Active

Initial License Date
02/08/2000

License Number
PE055782E

Expiration Date
09/30/2021

K. Kalonji Johnson

Acting Commissioner of Professional and Occupational Affairs

[Signature]

Signature

Commonwealth of Pennsylvania Department of State
Bureau of Professional and Occupational Affairs

Professional Engineer

License Number
PE075421

Expiration Date
09/30/2021



MATTHEW DAVID WARFEL
1707 VALETTE DRIVE
LANCASTER, PA 17602

OFFICIAL DOCUMENT

READ THE FOLLOWING INFORMATION CAREFULLY CONCERNING YOUR LICENSE:

1. SIGN THE WALLET CARD AND CERTIFICATE WHERE INDICATED.
2. DETACH THE WALLET CARD AND CERTIFICATE AT PERFORATION.

Pennsylvania Licensing System (PALS)

Visit our website at: www.pals.pa.gov to renew your license, change your personal or license address, or order duplicate licenses.

MATTHEW DAVID WARFEL
1707 VALETTE DRIVE
LANCASTER, PA 17602

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0821192

License Type
Professional Engineer

MATTHEW DAVID WARFEL
1707 VALETTE DRIVE
LANCASTER, PA 17602



License Status
Active

Initial License Date
02/08/2008

License Number
PE075421

Expiration Date
09/30/2021

Acting Commissioner of Professional and Occupational Affairs

Signature

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

19 0811115

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649



License Type
Professional Geologist
MARK DAVID HARMAN
530 HERSHEY MILL ROAD
MOUNTVILLE, PA 17554

License Status
Active
Initial License Date
05/08/2009

Expiration Date
09/30/2021

License Number
PG004875

Acting Commissioner of Professional and Occupational Affairs

Signature

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19 0828526

Commonwealth of Pennsylvania

Department of State

Bureau of Professional and Occupational Affairs

PO BOX 2649 Harrisburg PA 17105-2649

License Type
Professional Engineer

DARRELL LEE BECKER
327 FAIRVIEW DRIVE
LITITZ, PA 17543

License Status
Active

Initial License Date
09/17/1986



Expiration Date
09/30/2021

Signature

License Number
PE035629E

Acting Commissioner of Professional and Occupational Affairs

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Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0821946

License Type
Professional Engineer

ALEX J MORRISON
129 OLD WILMINGTON ROAD
COATESVILLE, PA 19320

License Status
Active

Initial License Date
08/01/1990



Expiration Date
09/30/2021

License Number
PE040674E

K. Kelley Johnson

Acting Commissioner of Professional and Occupational Affairs

COPY

Alex J Morrison

Signature

Commonwealth of Pennsylvania Department of State
Bureau of Professional and Occupational Affairs

Professional Engineer

License Number
PE035801E

Expiration Date
09/30/2021



JOHN ARTHUR MOTT
276 SWEDESFORD ROAD
MALVERN, PA 19355

OFFICIAL DOCUMENT

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Pennsylvania Licensing System (PALS)

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JOHN ARTHUR MOTT
276 SWEDESFORD ROAD
MALVERN, PA 19355

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0827667

License Type
Professional Engineer

JOHN ARTHUR MOTT
276 SWEDESFORD ROAD
MALVERN, PA 19355



License Status
Active

Initial License Date
09/17/1986

License Number
PE035801E

Expiration Date
09/30/2021

Acting Commissioner of Professional and Occupational Affairs

Signature

Commonwealth of Pennsylvania Department of State
Bureau of Professional and Occupational Affairs


Professional Engineer

License Number
PE039262E

Expiration Date
09/30/2021

Active

MICHAEL A SCHOBER
508 THORNGATE PL
MILLERSVILLE, PA 17551



OFFICIAL DOCUMENT

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Pennsylvania Licensing System (PALS)

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MICHAEL A SCHOBER
508 THORNGATE PL
MILLERSVILLE, PA 17551

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

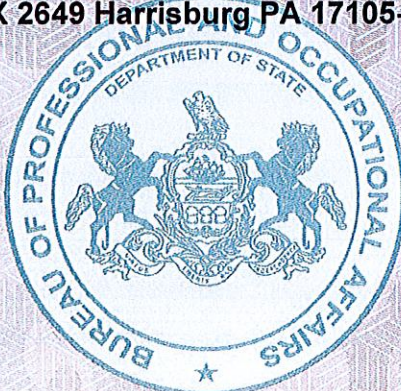
19 0799089

License Type
Professional Engineer

MICHAEL A SCHOBER
508 THORNGATE PL
MILLERSVILLE, PA 17551

License Status
Active

Initial License Date
07/24/1989



License Number
PE039262E

Expiration Date
09/30/2021

K. Kelley Johnson
Acting Commissioner of Professional and Occupational Affairs

Michael A. Schober
Signature

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Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0813254

License Type
Professional Engineer

WILLIAM LEE BOHNER JR
205 N HELLERTOWN AVENUE
QUAKERTOWN, PA 18951



License Status
Active

Initial License Date
10/27/1995

License Number
PE046111E

Expiration Date
09/30/2021

Acting Commissioner of Professional and Occupational Affairs

Signature

Commonwealth of Pennsylvania Department of State
Bureau of Professional and Occupational Affairs

Professional Engineer

License Number
PE043034E

Expiration Date
09/30/2021



STEPHANIE G CLAY
506 NORTHLAWN DRIVE
LANCASTER, PA 17603

OFFICIAL DOCUMENT

READ THE FOLLOWING INFORMATION CAREFULLY CONCERNING YOUR LICENSE:

1. SIGN THE WALLET CARD AND CERTIFICATE WHERE INDICATED.
2. DETACH THE WALLET CARD AND CERTIFICATE AT PERFORATION.

Pennsylvania Licensing System (PALS)

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renew your license, change your personal or
license address, or order duplicate licenses.

STEPHANIE G CLAY
506 NORTHLAWN DRIVE
LANCASTER, PA 17603

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0867751

License Type
Professional Engineer

STEPHANIE G CLAY
506 NORTHLAWN DRIVE
LANCASTER, PA 17603



License Status
Active

Initial License Date
07/30/1992

License Number
PE043034E

Expiration Date
09/30/2021

K. Kelley Johnson

Acting Commissioner of Professional and Occupational Affairs

Signature

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0820161

License Type
Professional Engineer
MICHAEL JOEL BINGHAM
17 MICHAEL LN
DENVER, PA 17517

License Status
Active
Initial License Date
05/26/2016



Expiration Date
09/30/2021

License Number
PE084973

Acting Commissioner of Professional and Occupational Affairs

Signature

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DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0832997

License Type
Professional Engineer
BRYAN DAVID KULAKOWSKY
3225 SILBURY HILL
DOWNTOWN, PA 19335



License Status
Active
Initial License Date
06/08/2004

License Number
PE063066

Expiration Date
09/30/2021

K. Kelly Johnson

Acting Commissioner of Professional and Occupational Affairs

[Signature]

Signature

ALTERATION OF THIS DOCUMENT IS A CRIMINAL OFFENSE UNDER 18 PA.C.S. § 4911

Commonwealth of Pennsylvania

Department of Environmental Protection

*In accordance with the
State Board for Certification of Water and Wastewater Systems Operators
and the Regulations of the*

Department of Environmental Protection

PAUL F. RUFFINI

is hereby Authorized to Operate
WASTEWATER SYSTEM

*Class: A/E, Wastewater
Subclass: 1, 2, 3, 4*

Client ID: 192789

**PAUL F RUFFINI
1107 DONEGAL SPRINGS RD
MOUNT JOY PA 17552-9033**

Issue Date: Jan 1, 2021
Expiration Date: Dec 31, 2023

Certificate No. S6899

Joseph J. Stauder
Board Chairman

Commonwealth of Pennsylvania

Department of Environmental Protection

*In accordance with the
State Board for Certification of Water and Wastewater Systems Operators
and the Regulations of the
Department of Environmental Protection*

NATHANIEL J MERKEL

Is Hereby Authorized to Operate
WATER SYSTEM

Class: E, Water
Subclass:

Client ID: 315257

NATHANIEL J MERKEL
8 SENECA CIR
CARLISLE PA 17015-7510

Issue Date Apr 01, 2018
Expiration Date Mar 31, 2021

Certificate No. W20636


Board Chairman



This certifies that

Nathan Merkel

*has met the standards for ethical conduct and professional practice as established by the
GIS Certification Institute for recognition as a*

**Certified Geographic Information Systems (GIS)
Professional (GISP)**

and is therefore entitled to all the rights and privileges thereunder.

*This grant of certification shall expire or be deemed inactive on 6/25/2023
unless, by that date, the individual shall have successfully completed recertification.*

Certification Number 90865 Date of Initial Certification 6/25/2015

Martin Roche

*Martin Roche, GISP
GISCI President*

Bill Hodge

*Bill Hodge, GISP
GISCI Executive Director*

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

19 0859009

License Type
Professional Engineer

ROBERT R PINGAR
1003 RUSSELL LN
WEST CHESTER, PA 19382



License Status
Active

Initial License Date
07/27/1987

License Number
PE036785E

Expiration Date
09/30/2021

Acting Commissioner of Professional and Occupational Affairs

Signature