

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

MICHAEL A. NAWROCKI, P.E., P.G.
Civil/Geological Engineer

PROFESSIONAL EXPERIENCE

1990 to **Robson Forensic, Inc.**

present *Associate*

Provide technical investigations, analysis, reports and testimony towards resolution of litigation. Areas of practice include hydrology, hydrogeology, environmental, foundations, and civil engineering.

1987 to **Private Consultant**

present

Engineering and geologic services in the fields of surface water and groundwater hydrology, pollution control, and environmental assessment. Design and implement programs for control of drainage, preparation of permits, prevention of ground and surface water pollution, and sediment and erosion control. Investigations to determine the impact of industrial and construction activities on the hydrologic regime. Performed groundwater impact assessment and modeling of groundwater flow.

1980 to **Skelly and Loy**, Denver, Colorado and Harrisburg, Pennsylvania

1987

Chief of the Environmental Division, Harrisburg

Technical analysis and coordination of projects in hydrogeology, resource conservation, site contamination assessment, pollution abatement and control, and environmental impact studies. Projects in the fields of geological engineering, ground and surface water hydrology, environmental permitting and site reclamation. Expert witness in hearings involving the impacts and effects of ground and surface water flow, quality, and quantity.

Branch Office Manager, Denver

In charge of all technical programs within the office. Technical coordinator and Project manager of geologic, engineering, and hydrologic projects. Mining plan reviews, reclamation plan development and installation, and hydrologic and water quality studies required for mining permits and irrigation activities.

1969 to **Hittman Associates, Inc.**, Columbia, Maryland and Englewood, Colorado

1980

Project Engineer and Program Manager, Columbia

Directed applied research programs in pollution abatement and control for government clients, and mining and pollution control studies for commercial and industrial clients. Technical consultant and expert witness in hydrogeology.

Manager of the Rocky Mountain Regional Offices

Responsible for the technical, administrative, and financial management. Program Manager on projects dealing with the environmental assessment, monitoring, and permitting of mining and other development projects throughout the United States.

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- 1967 to 1969 **U.S. Department of Defense**, Washington, D.C.
Vulnerability Engineer in the areas of soil mechanics, photo interpretation, ground shock analysis and computer modeling. Developed computer models of soil and rock reactions to blast effects.
- 1965 to 1976 **University of Missouri**, Rolla, Missouri
Graduate teaching and research assistant. Groundwater investigation in carbonate karst terrain. Taught engineering geology laboratories.

EDUCATION

M.S., Geological Engineering (Water Resources), University of Missouri at Rolla

B.S., Civil Engineering, State University of New York at Buffalo

PROFESSIONAL CREDENTIALS

Registered Professional Engineer: Maryland, Pennsylvania, Colorado, Wyoming, Montana, Virginia, West Virginia, Illinois, and Delaware

Registered Professional Geologist: Pennsylvania

PROFESSIONAL MEMEBERSHIPS

American Society of Civil Engineers

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TYPICAL RECENT PROJECT EXPERIENCE

- Slope stability analyses and recommendations for retaining walls for a housing development, Prince Georges County, MD.
- Hydrogeologic study and pit rubble slope stability analysis for the American Asphalt Paving Company, Exeter Township Pit Operation, Wyoming County, PA, including a field investigation, sampling of the slope material, investigation of the effects of seepage from a nearby stream and groundwater on slope stability, and analysis of the stability of the slope in a proposed excavated condition.
- Field investigation, soil sampling, and slope stability analysis for a proposed sand and gravel processing site to be constructed on a hillside, Wyoming County, PA, including consideration of the effects of the proposed structures on the stability of the slope.
- Field investigation, soil sampling, and stability analyses for pond embankments at the American Asphalt Paving Company Chase Quarry, PA, including analysis of embankment construction techniques and specifications on the overall stability.
- Quarry rock highwall stability analyses for the Hanson Aggregates Pennsylvania, Inc. Glen Mills Quarry, Delaware County, PA and the Downingtown Quarry, Chester County, PA, including field investigations; bedding plane, joint, and fracture mapping; and development of recommendations for mining/blasting to ensure highwall stability.
- Investigation of geotechnical aspects of a dragline falling into a mining pit due to failure of a slope in Lawrence County, PA. The project included a field investigation; slope materials sampling; review of depositions and accident reports; determination of the effects of site characteristics, dragline configuration, and operational procedures on the slope failure; and preliminary computer modeling of slope failure scenarios due to various dragline operational conditions.
- Investigation of a landslide caused by blasting at a surface mining site in West Virginia, including review of design documents, mine permit application documents, accident reports, and depositions; and determination of the cause(s) of the landslide.
- Investigation of storm drainage and stormwater management designs versus function to determine if excessive runoff was generated, Chester County, PA.
- Hydrologic investigation of causes of excessive stormwater runoff onto a metal salvage yard, York, PA.
- Hydrogeologic investigation of trichloroethane in groundwater supply, Beaver County, PA.

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- Investigation of alleged drainage problems caused by a bridge replacement project, Towanda, PA.
- Stormwater management investigation, and prediction of flood levels and problems projected to be caused by development of a subdivision in and near a floodplain, Cumberland County, PA.
- Prediction of runoff increases due to land disturbance, and documentation of flow directions, Beaver County, PA.
- Investigation of well contamination due to increased surface water runoff from a development, Myersville, MD.
- Design of storm drainage control and stormwater management plans for residential, commercial, and industrial developments.

EXPERT NOT RETAINED