



*AIR QUALITY, NOISE AND TRANSPORTATION
SERVICES FOR ENGINEERS, ARCHITECTS AND
PLANNERS*

AIR QUALITY SERVICES

*“...helps
clients remain
compliant,
limit liability
and effectively
manage
projects.”*

LPES helps clients remain compliant, limit liability and effectively manage projects. We anticipate and manage air-quality issues associated with a wide range of situations.

- **Conformity Analysis**
- **Air-Quality Modeling**
- **Air Emissions Inventories**
- **NEPA Support Services**
- **Air Permitting**
- **Regulatory Compliance**

ACOUSTICS AND NOISE SERVICES

LPES specializes in acoustical consulting and noise control. Its staff has extensive experience in the prediction, analysis and mitigation of both indoor and outdoor noise issues.

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experience in
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both indoor
and outdoor
noise issues.”*

- **Noise Compliance**
- **NEPA Support Services**
- **Noise Monitoring**
- **Construction Noise**
- **Transportation Noise**
- **Architectural Noise Control**

TRANSPORTATION SERVICES

LPES services include traffic and land use services. We provide detailed planning information and analysis of proposed changes in traffic networks on adjacent land uses.

- **Transportation Modeling**
- **Traffic Calming**
- **Traffic Impact Studies**
- **Land Development Plans**
- **NEPA Support Services**
- **Socioeconomic Assessment**

“Quality consulting services for engineers, architects and planners.”

*“...more than a
fifteen years
experience...”*

PRESIDENT

Timothy Lavallee, P.E., Principal/Senior Engineer, has more than fifteen years experience as an environmental planner. Mr. Lavallee holds a master’s degree from Tufts University in civil engineering/environmental health, and a bachelor’s degree from Northeastern University in mechanical engineering. Before founding LPES, Mr. Lavallee managed an environmental firm’s noise and air-quality services branch and worked for Lockheed Martin Space Missions and Support Services. Mr. Lavallee is a member of the Acoustical Society of America, Society of American Military Engineers and American Society of Civil Engineers. He has authored numerous professional and technical publications and is well versed in air-quality compliance and planning, noise prediction and control, and NEPA.

SELECT CLIENTS

| | |
|--|-------------------------------------|
| A.P. Hill Regional Jail | Immigration Naturalization Service |
| Air Combat Command | International Paper |
| Alfa Laval | Lockheed Martin |
| Andrews AFB | Marine Base Camp Lejeune |
| AT&T | Massachusetts Port Authority |
| Boston Logan International Jetport | NASA |
| Buckley AFB | U.S. Army |
| Cemtech | Pope AFB |
| City of El Paso | Richmond Power Enterprises |
| City of Little Rock | Rust Environmental |
| City of San Antonio | Shenandoah National Park Service |
| Cogentrix, Inc. | Southern Electric International |
| Dallas/Fort Worth International Airport | Texas Army National Guard |
| Department of Energy | TXDOT |
| Environmental Protection Agency | VDOT |
| Federal Bureau of Investigation | Texas Utilities (TXU) |
| Geo-Marine, Inc. | U.S. Air Force |
| Hampton University | FERC |
| Hanscom Airfield | United States Navy |
| | United States Public Health Service |
| | Vigyan, Inc. |
| | Virginia Institute of Technology |

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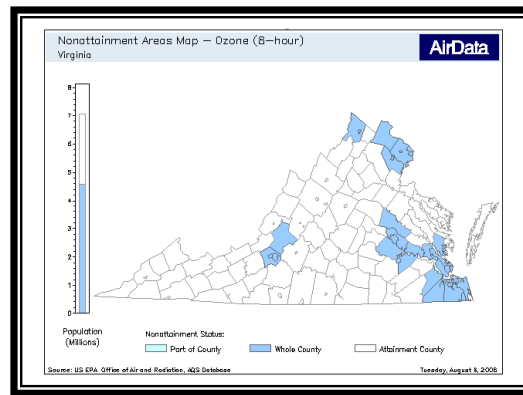
LPES, INC.

AIR-QUALITY SERVICES

*WE ANTICIPATE AND MITIGATE AIR-QUALITY ISSUES
FOR A WIDE RANGE OF PROJECTS.*

PLANNING SERVICES

- NEPA support services – Environmental Assessments and Environmental Impact Statements
- General conformity and transportation conformity
- Emission inventories and calculations



MODELING

- Traffic emissions and hot spot analysis
- Construction and demolition air-quality analysis
- Dispersion modeling
- Odor quantification and analysis

REGULATORY COMPLIANCE AND PERMITTING

- Permit planning, application and negotiation
- Air emission inventories for Title V permits

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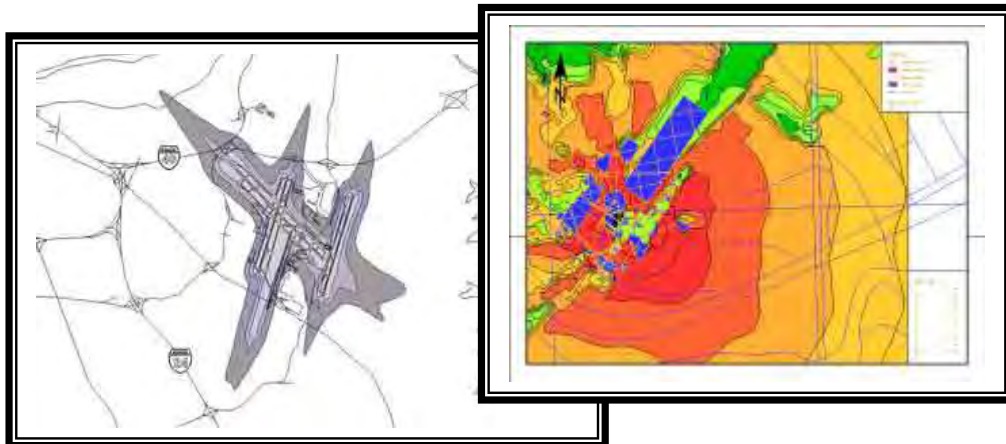


ACOUSTICAL AND NOISE SERVICES

*PREDICTION, ANALYSIS AND CONTROL OF
ENVIRONMENTAL AND TRANSPORTATION NOISE*

TRAFFIC NOISE

- FHWA Traffic Noise Model (TNM)
- Freeway noise, proposed lane additions and roadway reconfigurations
- Barrier design and cost benefit analysis



AIRCRAFT NOISE

- Air installations (Noisemap, INM)
- Single flyover analysis for fixed wing and rotorcraft

RANGE NOISE

- Small arms ranges and heavy artillery

RAILWAY NOISE AND VIBRATION

- Land use compatibility analysis for rail corridors

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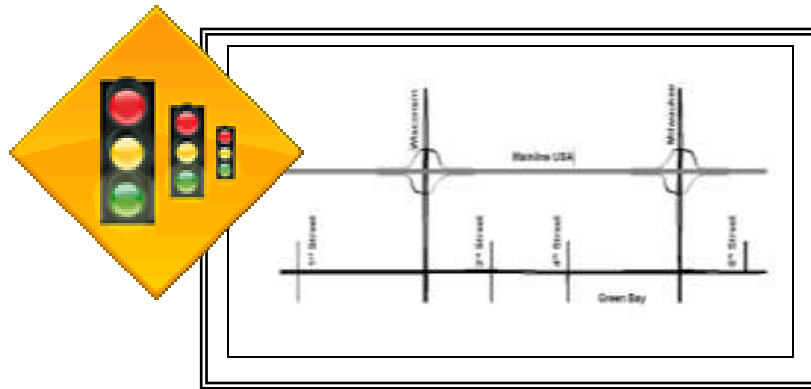


TRANSPORTATION SERVICES

*DETAILED ANALYSIS OF TRAFFIC NETWORKS AND
ADJACENT LAND USES*

TRAFFIC MODELING

- Roadway and Intersection Capacity Analysis (Synchro)
- Signal Timing Optimization
- Configuration Changes



TRAFFIC IMPACT STUDIES

- Build/No-build Analysis
- Level of Service and Capacity Investigations
- Alternatives Analysis
- Mitigation Development

LAND-USE STUDIES

- Site Planning and Network Access Assessment
- Land Development Plans

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SELECT RECENT PROJECTS

| Project | Description | Location | Client | Air | Noise | Traffic |
|--|--|-------------------------------------|----------------------|------------|--------------|----------------|
| Fort Belvoir BRAC (2007) Environmental Impact Statement and Conformity Determination | Base realignment of Fort Belvoir. Including the proposed construction of 7 million square feet of new facilities. | Fairfax, VA | US Army | X | X | |
| Fort Lee BRAC (2006) Environmental Impact Statement and Conformity Determination | Base realignment of Fort Lee. Including the proposed construction of 6 million square feet of new facilities. | Petersburg, VA | US Army | X | X | X |
| Sparrows Point LNG and Cogeneration Facility (2006) Resource Report #9 Noise Impact Assessment | Site planning for a proposed liquid natural gas and cogeneration facility on the coast of Maryland. | Baltimore, MD | Private | | X | |
| HM-15 Squadron Relocation (2006) Environmental Impact Statement and Conformity Determination | The relocation of a squadron of Sea Dragon Naval helicopters and associated support facilities and personnel. | Norfolk, VA | US Navy | X | X | |
| Naval Weapons Station Yorktown Rifle Range (2006) Environmental Assessment | The proposed establishment of a new small arms training range. | Yorktown, VA | US Navy | X | X | |
| Unaccompanied Personnel Housing (2007) Fort Stewart and Fort Bragg Environmental Assessments | The proposed development of over 1000 single bed apartments for unaccompanied personnel. | Liberty, GA and Fayetteville, NC | US Army | X | X | X |
| FERC NE-07 Pipeline Expansion (2006) Environmental Impact Statement and Conformity Determination | The expansion of many and varying components of the natural gas network throughout the Northeast. | Various thorough the Northeast | FERC | X | X | |
| PMZ Runway Expansion (2006) Noise Analysis and Assessment | The proposed expansion of the main runway at Plymouth County Municipal Airport. | Plymouth, NC | Airport Authority | | X | |
| Camp Bowie Multipurpose Machine Gun Range (2005) Environmental Assessment | Proposed MRF and MPMG Ranges for ANG training. | Brownwood, TX | TXANG | | X | |

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| Buckley AFB Annex (2005) Environmental Assessment and Conformity Determination | Modifications to prepare the Buckley for upcoming BRAC efforts. | Denver, CO | USAF | X | X | |
| Runnels Federal Building (2005) Supplemental EA | Changes to proposed federal courthouse in Austin, TX | Austin, TX | GSA | X | X | |
| National Army Museum (2005) Environmental Assessment and Conformity Determination | The establishment and construction of the National Army Museum. | Fort Belvoir, VA | US Army | X | | |
| ROTHR Radar Timber Harvest (2005) Environmental Assessment and Conformity Determination | Timber harvest activities associated with ROTHR Radar clear zone management. | NSA Northwest, VA | US Navy | X | | |
| Pier D Replacement (2005) Environmental Assessment and Conformity Determination | The replacement of pier D at the Norfolk Naval Shipyard. | Norfolk, VA | US Navy | X | | |
| Indian Creek Correctional Institution (2005) ACA Accreditation Survey | Sound survey to ensure ACA reaccreditation compliance | Chesapeake, VA | VDOC | | X | |
| Hague Building (2005) Noise Suitability Study | Mechanical room criteria noise measurements and suitability evaluation. | Norfolk, VA | Private | | X | |
| DCEETA Remote Delivery Facility (2005) Environmental Assessment and Conformity Determination | The construction and operation of the DCETTA Remote Delivery Facility and New Gate. | Fort Belvoir, VA | US Army | X | X | X |
| Beulah Street Realignment (2005) Environmental Assessment and Conformity Determination | Security Improvement and a realignment of a key cross base roadway. | Fort Belvoir, VA | US Army | X | X | |
| SDDC HQ Realignment (2004) Environmental Assessment | The realignment of SDDC personnel and the construction of a 200,000sf facility. | Fort Eustis, VA | US Army | X | X | |
| Rehabilitation of the Chamberlin Hotel (2004) Environmental Assessment | Modifications to prepare the Chamberlin Hotel for military retirement housing. | Fort Monroe, VA | Private | X | X | |
| DEA and Federal Courthouse (2004) Environmental Assessment | Proposed DEA and courthouse annex with adjacent hospital and nursing home. | Alpine, TX | GSA | X | X | X |
| Austin Federal Courthouse (2004) Environmental Assessment | Proposed federal courthouse annex. | Austin, TX | GSA | X | X | |

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| Del Rio Point of Entry (2004) SEIS | Security upgrades to POE resulting in road closure. | Del Rio, TX | Homeland Security | X | X | X |
| Special Purpose Facility (2004) Environmental Assessment | Construction of a special purpose facility. | Fort Sam, TX | US Army | X | X | |
| Security Gate Closures (2004) Environmental Assessment | Post 9/11 closure of 19 points of access to FSH. | Fort Sam, TX | US Army | X | X | X |
| 5th Army Headquarters Environmental Assessment | Relocation of the 5 th Army HQ to Fort Sam. | Fort Sam, TX | US Army | X | X | |
| Consolidated Fuels Environmental Assessment | Proposed consolidated tank farm and associated buildings. | Buckley AFB | USAF | X | X | |
| Landscape Design Environmental Assessment | Implementation of the base wide landscape design plan. | Buckley AFB | USAF | X | X | |
| Fire Training facility Environmental Assessment | Design and fabrication of a propane fire training facility. | Buckley AFB | USAF | X | X | |
| Entomology Building Environmental Assessment | Demolition and relocation of BAFB entomology services. | Buckley AFB | USAF | X | X | |
| Relocation SDDC Headquarters Environmental Assessment | General and transportation conformity. Air-quality modeling | Fort Eustis, VA | US Army | X | | |
| War Road Expansion White Sands Missile Range Environmental Assessment | General and transportation conformity. Traffic air-quality modeling. NEPA Support. | El Paso, TX | US Army | X | | |
| Police Academy Firing Range Noise Survey | Environmental Noise Assessment and Architectural Review | Chesapeake, VA | City of Chesapeake | | X | |
| Expansion of Westmoreland Road Categorical Exclusion | Traffic noise modeling and assessment | Dallas, TX | City of Dallas | | X | |
| Refugio Street Apartments HUD Noise Assessment | Environmental Noise Assessment and Architectural Review | San Antonio, TX | HUD | | X | |

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