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 **RESOURCE**
INTERNATIONAL, LTD.

ENGINEERS ● SCIENTISTS ● SURVEYORS ● PLANNERS



9560 Kings Charter Drive
Ashland, VA 23005
(804) 550-9200 * FAX (804) 550-9259

Greenbrier Tower II * 870 Greenbrier Circle,
Suite 114 * Chesapeake, VA 23320
(757) 873-7711 * FAX (757) 873-7712

www.resourceintl.com



MISSION STATEMENT

**“We challenge ourselves to rethink the traditional,
To apply innovative and sustainable technology,
And to identify creative engineering and
environmental solutions,
In order to earn our clients for life.”**

Our Corporate Challenge

“Be the Best, Make it Personal, NOW.”

TWO OFFICES READY TO SERVE YOU:

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GENERAL OVERVIEW

Resource International, LTD., a SWaM certified Small Business (License#684640), provides engineering & consulting services to small businesses, large commercial & industrial corporations, & all levels of government. Started in 1979, the company has two offices located in Ashland, & Chesapeake, Virginia.

Resource's experienced team of engineering and scientific professionals provides complete planning to assist the economic development needs of our clients. Our commitment to quality service is exemplified through the following blend of assets:

- Experienced urban & suburban planners.
- Innovative water & wastewater system designers.
- 30 years of commercial & industrial design.
- Environmental planners & designers protecting water & wetland resources.
- Professionals using technology to achieve sustainable development.
- Engineers experienced solid waste management field.



We employ a broad, experienced team of professionals including:

- Civil Engineers
- Land Surveyors
- Municipal Engineers
- Wetland Scientists
- Environmental Engineers
- Solid Waste Engineers
- Groundwater Specialists
- Municipal Planners
- Land Planners
- Landscape Architects
- Transportation Engineers
- Geologists
- Hydrologists
- Computer Modelers
- Graphic Designers

These professionals provide services to industrial, commercial, and government clients in the areas of:

- Land Development Planning & Engineering
- Municipal Planning & Ordinances
- Economic Development
- Water Supply & Wastewater Treatment
- Solid Waste - Planning, Permitting, Design, & Closure
- Wetlands Delineation & Permitting
- Environmental Assessments & Impact Analysis
- Financial Feasibility Studies
- Industrial Permitting
- Industrial Site Development

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LAND PLANNING SERVICES

Resource International, LTD. offers comprehensive land planning, landscape, and design services through our in-house certified planners and technical staff in a variety of commercial, industrial, governmental, residential, and recreational developments.

Planning gives the direction for growth to the community while landscape services improves the quality of life within it. Our team provides comprehensive land planning, design, land use, and zoning services for private and public clients within the state of Virginia, North Carolina, and West Virginia. We believe very strongly in working together as a team. Collaboration enables us to provide a complete service by assisting clients from the design concept to final construction of their project.

Land Planning Services:

- Site Planning
- Conceptual Design
- Landscape Services
- Rezoning Applications
- Public Presentation
- Permitting Assistance
- Fatal Flaw Analysis & Due Diligence Studies
- Environmental Overview
- Site Research and Feasibility
- Site/Facility Expansion Plan
- Renderings



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LAND DEVELOPMENT SERVICES

Resource International, LTD. offers a full range of engineering and technical services to support commercial, residential, and industrial property developers. These services include site plan preparation, public hearings and presentations, development layout and feasibility studies, site and project engineering, commercial building design, recreational facility planning, on-site and off-site utilities, parking lot design, and project management.



Farms of New Kent
New Kent County, VA



JDA Building
Isle of Wight, VA



Soccer Field



King Charter
Hanover County, VA

SUBDIVISIONS & PLANNED COMMUNITIES

Types of Projects

- Age Restricted Development
- Golf Course Communities
- Mixed-Use Development
- Multifamily Complexes
- Neo-Traditional Communities
- Planned Unit Development
- Traditional Subdivisions

COMMERCIAL DEVELOPMENT

Types of Projects

- Banks
- Convenience Centers
- Day Care Centers
- Flex Space
- Gas Stations
- Mini-Storages
- Office Buildings
- Office Parks
- Quick Serve Restaurants
- Service Centers
- Shopping Centers



Atlee Station
Hanover County, VA

INDUSTRIAL DEVELOPMENT

Types of Projects

- Brick/Paver Plants
- Distribution Centers
- Economic Development

- Manufacturing Facilities
- Import Centers
- Industrial Parks
- Warehouses

OTHER DEVELOPMENT

Types of Projects

- Dam Rehabilitation
- Fairgrounds
- Parks
- Trails
- Utilities



The Bluffs at Bell Creek,
Hanover County, VA

SERVICES OFFERED

- Feasibility Studies
- Concept Plans
- Opinions of Probable Costs
- Early Land Disturbance Plans
- Erosion Control Plans
- Geotechnical Investigation Coordination
- Lot Grading Plans
- Master Plans
- Plans of Development
- Rezoning, CUP, & Special Exceptions
- Storm Water Management Basin Design
- Site Observations
- Traffic Impact Studies
- As Reported Drawings

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Development Services

- Site Planning and Development
- Site Investigation Report
- Conceptual Plan
- Subdivisions
- Master Plans
- Industrial Parks
- Site Feasibility Studies
- Rezoning - Local Permitting
- Public Hearing
- Earthwork Computations
- Environmental Site Assessments
- Wetland Permitting
- Boundary Survey
- Construction Phase Services
- Up-to-Date Computer Software for Storm Water Analysis and Design
- Budget Cost Estimates



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ENVIRONMENTAL SERVICES

Resource International, LTD. has a staff of natural resource professionals which includes biologists, ecologists, geologists, hydrologists, hydrogeologists, and engineers who are fully knowledgeable of all phases of environmental science.



**Small Whorled Pogonia
(Endangered Species)**



Wetland Delineation



Dock Permitting (RP19)

Environmental

- ESA's Phase I and II
- Environmental Impact Assessments
- Threatened and Endangered Species Studies

Permitting

- NPDES
- VPA
- Waters of the U.S./Wetland
- Solid Waste
- Storm Water
- Air Pollution

Wetlands and Streams

- Wetland Determinations & Delineations
- Stream & Perenity Assessments
- Wetland Functional Value Assessments
- RPA Determinations
- Permitting
- Wetland Creation/Restoration Siting & Design
- Stream Restoration & Design

Groundwater

- Groundwater Studies
- Groundwater Withdrawal Permits
- Groundwater Contamination Assessment
- Groundwater Monitoring & Modeling
- Risk Assessment
- Corrective Action Plans

Facility

- UST Removal, Reimbursement
- Above Ground Storage Tanks
- Spill Prevention Plans
- Waste Minimizations
- ISO - 14000 consultation
- Landfill Gas Monitoring



Waters of the US Delineation

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SURVEYING SERVICES

Resource International, LTD. surveying department is managed by a licensed surveyor and includes field crews and associated office support personnel who are responsible for obtaining field data and converting it to plat, design and/or construction information for projects. Over the past five years, Resource staff has completed over 350 surveying projects. Resource uses both conventional surveying practices and technically advanced methods involving the use of satellite-based GPS (Global Positioning System). The horizontal and vertical control from these surveys are the very data bases from which GIS (Geographic Information Systems) evolve. Resource routinely provides surveys conforming to ALTA/ACSM standards. Strip surveys for utility designs, topographic surveys for site plans and wetland boundary surveys have been performed for engineering, environmental, electrical, mechanical, structural, geotechnical, and architectural design projects. We offer the following surveying services:



- Ground Control
- ALTA/ACSM
- Boundary Surveys
- Utility Design Survey
- Topographic Survey
- Record Drawing Surveys
- Easement Plats
- Wetland Surveys
- Environmental Surveys
- Construction Verification Surveys

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WATER/WASTEWATER SERVICES

Resource International, LTD. has provided a full range of engineering services for governmental and industrial clients which have included problem definition, engineering feasibility, design, construction surveillance, and operations consultation.

WATER

Resource has been providing quality engineering and scientific services to ensure safe, dependable sources of drinking water. Water engineering encompasses the full range of treatment, pumping, storage, collection, and distribution facilities.

Resource has planned and designed water supply systems ranging from small developments to major county facilities as well as designed water transmission lines, pumping stations, and storage systems to meet operating, emergency, and fire protection requirements. Resource uses innovative and cost-effective methods to develop efficient and reliable solutions. For example, computer modeling of system networks allows us to test various development alternatives within a water system. Resource uses network modeling to size pipes, locate storage tanks, optimize system operations and develop water supply plans.

Resource's construction management team has assisted clients in bidding projects, awarding contracts and administering the contract during construction. In addition, Resource provides representatives to observe construction for conformance with the contract documents.

WASTEWATER

Resource has been providing quality engineering and scientific services to ensure effective and dependable infrastructure for wastewater collection, transport, treatment, and disposal. Resource's innovation has produced more cost-effective wastewater facility alternatives than normally available through conventional methods. Resource has planned and designed wastewater systems ranging from small developments to major county facilities. Resource has designed collection systems, pumping stations, and treatment plants. Computer modeling of system networks allows us to test various development alternatives within a community's wastewater system. Resource has provided timely and quality engineering services to ensure effective

and dependable wastewater collection, pumping and treatment.

- Collection Systems
- Pumping Systems
- Feasibility Studies
- Process Design
- Process Evaluation
- Treatment Plant Designs
- Treatability Studies
- Construction Management
- Start-up Services
- Force Main Design
- Discharge Permitting
- Funding Applications
- Master Plans
- Pre-treatment Facility
- Bidding Assistance
- I & I Studies
- Construction Surveillance

INDUSTRIAL

- Facility Site and Building Design
- Process System Design
- Equipment Layout Design
- Dam and Reservoir Design
- Permitting (Air, water, etc.)
- Endangered Species Determinations
- Wetlands Delineation
- Geological Studies
- Water Supply Design
- Hazardous Waste Surveys
- Wastewater Treatment Plant Design
- Oil Spill Plans
- Stormwater Plans
- Waste Minimization Studies
- Pollution Prevention Plans
- Odor Control Plans
- Air Emission Testing

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SOLID WASTE SERVICES

Resource International, LTD. has over 30 years of solid waste experience and a team on professional engineers, scientists, and technical professionals to meet your needs.



Lining Subgrade
King & Queen Landfill



Liner Installation
Ashcake Road Landfill



Landfill Gas to Energy
Stafford County, VA



Active Gas Extraction System
Fredericksburg, VA

LANDFILL FACILITIES

- Part A & Part B Permitting & Design
- Cost Opinions for Financial Assurance
- Landfill Gas Control & Management
- Air Permitting
- Environmental Monitoring & Modeling
- Storm Water Pollution Prevention Plans
- VPDES Permits & Outfall Monitoring
- Operations Review & Evaluations
- Construction Phase Services
- QA/QC & CQA Documentation
- Surveying

WASTE TRANSFER

- Permit-by-Rule Submittals
- Transfer Stations
- Material Recovery Facilities
- Drop-off Centers / Public Use Areas
- Spill Prevention, Control, & Countermeasures Plans
- Construction Phase Services

PLANS & STUDIES

- Site Selection Evaluations & Studies
- Site Plans & Local Zoning & Approvals
- Solid Waste Management Plans
- Waste Characterization Studies
- Financial Analyses
- Site Life Evaluations
- Rate (Tipping Fee) Studies
- Privatization Studies (Public vs. Private Operations)
- Transportation Studies



Membrane Liner Installation
King William County, VA



Landfill Closure
Prince Edward County, VA



Leachate Pond
Prince Edward County, VA



Convenience Center
New Kent County, VA

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TRANSPORTATION SERVICES

Resource International, LTD. incorporates transportation studies and design services in many of our projects. The transportation staff interacts with all Resource departments frequently to assist with questions of access, geometric standards, entrance permits, traffic operations, traffic generation, street design, and pavement design.



Route 106 - Roundabout



Traffic Signal



Road Design

Land Development

- Traffic Impact Studies
- Entrance Design
- Traffic Circulation
- Roundabouts
- Pavement Design
- Utility Coordination
- Pedestrian and Bicycle Facilities

Road Design

- Preliminary Plans
- Coordination with Controlling Agencies
- Construction Plans
- Maintenance of Traffic Plans
- Public Hearings
- Construction Administration



Interchange Modification

Traffic Operations

- Traffic Signal Design
- Capacity Studies
- Accident Analyses
- Intersection Analyses
- Traffic Volume Counts
- Sign Layout
- Traffic Calming



Road Layout Plan

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INDUSTRIAL SERVICES

Resource International, LTD. has over 30 years of experience in assisting with permitting industrial projects. Project services include permits and compliance applications for:



Regional Jail Facility

- Air Pollution Permits
- Wastewater Discharge Permits
- Solid Waste Facility Permits
- Site Plan Design & Permitting
- Environmental Permitting & Compliance



Landfill Gas to Energy



Distribution Center

Selected industries that Resource has provided site and environmental permitting services for include:

- Electrical Utilities
- Chemical
- Paper
- Fertilizer
- Aggregate
- Food
- Apparel
- Waste Management



Agronomics Facility



Paper Company

Services provided to our industrial clients include:

- Feasibility Studies
- Compliance Oversight & Review
- Environmental Permitting
- Engineering Design & Construction Plans
- Regulatory Permitting & Negotiations
- Construction Administration



Power Station



Landfill Gas to Energy



Co-Generation Plant

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GRANTS/FUNDING

Resource International, LTD. (Resource) understands the problems related to funding, finding the best alternatives available and evaluating options for defining a cost effective and viable project. Resource has helped local communities obtain over **\$133, 936,733** million dollars in grant and loan funding. Resource has assisted communities with various aspects of projects that include the following:

- Defining projects and opinions of costs through a Preliminary Engineering Report (PER).
- Prepare financial analysis of project including rates.
- Prepare Rural Utilities Services (RUS) funding application and assist in other funding source applications.
- Prepare the Environmental Assessment required by most funding sources.
- Prepare Plans and Specifications in accordance with funding agency requirements.
- Prepare Contract Documents in accordance with funding agency requirements.
- Assist in bidding and prepare documents of the bid results for the funding agencies.
- Administer the project during construction and provide documentation to funding agencies for close-out.

The following clients and projects are examples of Resource's experience with funding sources for projects such as low interest loans and grants.

- Westmoreland County
 - Route 3 Industrial Park
 - EDA Grant \$ 521,160
 - Route 3 Wastewater System
 - RUS Loan \$ 308,200
 - RUS Grant \$ 350,000
 - Coles Point Phase 1
 - RUS Loan \$1,814,923
 - RUS Grant \$3,750,194
 - Coles Point Phase 2
 - RUS Loan \$ 670,756
 - RUS Grant \$ 638,650
 - Washington District Phase 1
 - RUS Loan \$2,461,210
 - RUS Grant \$4,251,500
 - CDBG \$ 280,000
 - Washington District Phase 2
 - RUS Loan \$4,500,000
 - RUS Grant \$2,513,800
- Richmond County/Town of Warsaw
 - Water and Wastewater
 - EDA Grant \$1,000,000
 - CDBG Grant \$ 700,000
- Northumberland County
 - Fleeton/Chesapeake System
 - RUS Loan \$1,241,580
 - RUS Grant \$2,338,590
 - Callao System
 - RUS Loan \$ 935,770
 - RUS Grant \$1,445,000
- King William County
 - Mount Olive Community and Utility Systems
 - CDBG Grant \$1,400,000
 - RUS Grant \$ 94,400
- Bell Creek Community Development Authority, Hanover County, VA
 - Special Assessment Bonds \$15, 980,000
- The Farms of New Kent Community Development Authority, New Kent County, VA
 - Special Assessment Bonds \$85, 666,000
- Town of Orange
 - Raw Water Storage Basin
 - EPA Grant \$ 315,000
 - RUS Grant \$ 500,000
 - State Grant \$ 260,000

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LOCAL GOVERNMENT SUPPLEMENTAL STAFF SUPPORT

Resource International, LTD. (Resource), a multi-disciplinary engineering and environmental consulting firm, assists Virginia's Cities, Towns, and Counties with engineers, scientists, and planners to supplement their short term or long term staff needs. Resource understands the problems related to staff turnover or having the budget to fund full time positions and can provide you with experts for the following positions:

- Director of Community Development
- Traffic Engineer
- Public Works Engineer
- Certified Erosion and Sediment Control Inspectors
- Director of Economic Development
- County Utilities Engineer
- Certified Site Plan Reviewer
- Certified Erosion and Sediment Control Plan Reviewer
- Certified Utility Plan Reviewer

Below are examples of the type of technical services Resource has provided local governments to supplement their staffing needs:

- **Westmoreland County** – Supplemental staffing for utility plan review, site plan review and civil engineering (Public Works). Support services for master sewer planning, utility design, assistance in loan and grant applications, and environmental services.
- **King William County** – Supplemental staffing for site plan review, erosion and sediment control plan review, utility rate evaluation, utility standards, assistance in grant applications, utility plan review of developer's projects and utility master plans. Support services for park facilities master plan, utility design, assistance in loan and grant applications, and environmental services.
- **Town of Orange** – Supplemental staffing for site plan review and erosion and sediment control plan review. Support services for Utility design, roads design, public works facility design, grant applications and environmental services
- **Town of Dumfries** - Supplemental staffing for Interim Director of Community Development; also Traffic Engineer to review special traffic studies
- **Northumberland County** – Support services for review of utility plans of developer's projects and support services for design of wastewater projects.
- **Lancaster County** – Supplemental staffing for Comprehensive Plan update and support services for industrial parks and zoning assistance.
- **New Kent County** – Support services for water and wastewater projects, small area plan and solid waste transfer station.
- **Hanover County** – Support services consisting of design services for Utilities Department, Public Works Department and the Parks and Recreation Department
- **Essex County** - Support services for site plan review, erosion and sediment control plan review, and erosion and sediment control site inspections.

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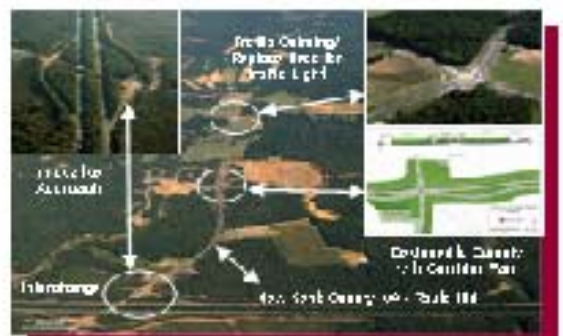
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