



**FULLY EXECUTED**

Contract Number: 4400027107

Original Contract Effective Date: 11/15/2022

Valid From: 11/10/2022 To: 01/27/2027

All using Agencies of the Commonwealth, Participating Political Subdivision, Authorities, Private Colleges and Universities

**Purchasing Agent**

Name: Warnick Kelly

Phone: 717-214-3434

Fax: 717-214-9505

Your SAP Vendor Number with us: 401470

**Supplier Name/Address:**

WINTERSPRING LLC  
DBA ARCHEWILD  
2191 HILLCREST RD  
QUAKERTOWN PA 18951-2282 US

Supplier Phone Number: 855-752-6862

Supplier Fax Number: 855-752-6862

**Please Deliver To:**

To be determined at the time of the Purchase Order unless specified below.

**Contract Name:**

ITQ Natural Resource Inventory & Eco Res

**Payment Terms**

NET 30

Solicitation No.:

Issuance Date:

Supplier Bid or Proposal No. (if applicable):

Solicitation Submission Date:

This contract is comprised of: The above referenced Solicitation, the Supplier's Bid or Proposal, and any documents attached to this Contract or incorporated by reference.

Item	Material/Service Desc	Qty	UOM	Price	Per Unit	Total
1	Inventory Services-ITQ-406	0.000		0.00	1	0.00

**Information:**

Supplier's Signature \_\_\_\_\_

Title \_\_\_\_\_

Printed Name \_\_\_\_\_

Date \_\_\_\_\_



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Item	Material/Service Desc	Qty	UOM	Price	Per Unit	Total
<b>Item Text</b>						
77101604-ITQ-406 Inventory Services						
<p>Inventory services shall include scheduling, coordination, and managing all aspects of work produced in close conjunction with natural resource managers. Contractors qualifying under this category shall be responsible for the coordination and completion of awarded projects entailing:</p> <ul style="list-style-type: none"> <li>Inventory aquatic and terrestrial plant communities and conduct ecological community survey and classification, plant community typing following scientific protocols (Pennsylvania Natural Heritage Program classification system, PA Bureau of Forestry Typing Manual, etc.). Developing guidelines or protocols for site and project specific inventories and completing inventories using the same.</li> <li>Collect forest and plant community data at a stand level including forest inventory of species, size, class, stocking density, basal area, regeneration, age distribution, canopy strata classifications, and spatial distribution. Collection may also include plot sampling, transects or radius, regeneration surveys, operational inventories, documentation of features pertinent to resource management considerations such as vernal pools, wetlands, and dens or roost trees, and any other necessary field surveys.</li> <li>Sample landscapes and ecosystems using stratified sampling methods and record metrics such as area of forest community type, overstory basal areas, density and diameter distribution across species, density of seedlings and saplings across tree species, and cover of invasive plants across species. Inventory efforts may entail a permanent plot network for monitoring.</li> <li>Inventory, analyze, and present data compatible with commercially available digital forest planning and operational tools e.g., Silva</li> <li>Complete landscape level post disturbance monitoring, extent or abundance surveys and monitoring, and presence / absence surveys at the ecosystem level, using photographic, plot or other data methods.</li> </ul> <p>The selected contractor will be expected to develop budgets and cost estimates and provide reports, deliverables, and other graphic materials associated with inventory, assessments, analysis and implementation of management and restoration prescriptions, including but not limited to data shapefiles and maps, budgets and cost estimates, acquiring photographs, developing conceptual renderings, design sketches, graphical depictions, typicals, and prototypes, implementation specifications, plans of study, meeting minutes, preparation of permit application documents, mitigation, operation, and/or maintenance plans and reports, and training materials and presentations.</p>						
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2	Data Analysis & Mgmt Specif. ITQ-407	0.000		0.00	1	0.00

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<b>Item Text</b>						
77101604-ITQ-407	Data Analysis and Management Specifications					
<p>Data analysis and development of management specifications shall include scheduling, coordination, and managing all aspects of work produced in close conjunction with natural resource managers. Contractors qualifying under this category shall be responsible for the coordination and completion of awarded projects entailing:</p> <ul style="list-style-type: none"> <li>• Analysis of landscape and ecosystem data at the park or landscape level to identify ecosystems, plant communities and habitats in need of restoration or vulnerable to disturbance. Analysis and assessment of data will consider factors such as stand structure and composition, potential for ecosystem redundancy, the presence of biologic stressors (e.g., invasive plants), potential for severe disturbances (e.g., disease, predicted changes in climate and weather), potential for habitat corridors, or mitigating habitat fragmentation.</li> <li>• Analysis of sustainability of landscape and ecosystem data for sustainability or vulnerabilities in: ecological functions, ecosystems, and plant communities and to identify areas of landscape fragmentation and opportunities for creating, expanding, or improving habitat corridors.</li> <li>• Analysis of landscape and ecosystem data for opportunities to identify opportunities and priority projects to enhance species and structural resiliency, increase ecosystem redundancy, reduce impacts of biological stressors, reduce long-term impacts of severe disturbances, and realign communities and ecosystems to meet expected future conditions.</li> <li>• Analysis of landscape and ecosystem data at the park or landscape level to develop restoration objectives and identify community types most likely to sustain ecological function and sustainability.</li> <li>• Landscape level geospatial analysis for identification of opportunities and vulnerabilities for wildlife corridors, refugia from climate change, and diversification of ecosystems.</li> <li>• Develop silvicultural and management prescriptions for restoration to promote diverse age classes, guide changes of species compositions at early stages of stand development, manage unique sites and habitats for sensitive and at-risk species, restore and maintain young seral and non-forested ecosystems, restore fire adapted ecosystems, and / or increase resilience and / or ability to return to desired condition after a disturbance. Prescriptions would include both specific management actions, as well as the sequence and chronology of these actions.</li> <li>• Develop objectives, boundaries, complexity calculations, modeling and other necessary components for prescribed fire management.</li> <li>• Develop prescriptions or management actions to maximize water quality benefits, such as those provided by forest ecosystems, assess liabilities from sedimentation, develop prescriptions for erosion and sedimentation control measures, develop prescriptions to maintain or restore hydrology through wetland creation, flood plain creation, stream bank stabilization and modifications.</li> <li>• Develop and evaluate restoration alternatives using comparative, feasibility, or cost-benefit analysis of restoration methodologies or management practices to determine best fit with Bureau objectives.</li> </ul> <p>The selected contractor will be expected to develop budgets and cost estimates and provide reports, deliverables, and other graphic materials associated with inventory, assessments, analysis and implementation of management and restoration prescriptions, including but not limited to data shapefiles and maps, budgets and cost estimates, acquiring photographs, developing conceptual renderings, design sketches, graphical depictions, typicals, and prototypes, implementation specifications, plans of study, meeting</p>						

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minutes, preparation of permit application documents, mitigation, operation, and/or maintenance plans and reports, and training materials and presentations.						
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3	Implementation & Eco Rest. Serv. ITQ-408	0.000		0.00	1	0.00

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**Item Text**

70161703-ITQ-408 Implementation and Ecological Restoration Services

Implementation of ecological restoration services shall include scheduling, coordination, and managing all aspects of work produced in close conjunction with natural resource managers. Contractors qualifying under this category shall be responsible for the coordination and completion of awarded projects entailing:

**Pesticide Application**

- Pesticide suppression of invasive species or competing native vegetation through a variety of techniques including, but not limited to preemergence, high volume foliar, low volume foliar, or ultra low volume foliar, hack and squirt, cut stump, and / or basal bark treatments.
- Pesticide suppression of forest pests to include but not limited to stem injection, soil injection, and horticultural oils applications.

**Planting and Seeding**

- Pre-planting site or seeding preparations including mechanical (physical clearing such as scarification or tilling) or pesticide applications.
- Procurement and installation of plant stock including live stake, brush mattress or wattle, bare root or containerized seedlings, or bare root, containerized, or balled and burlaped landscape stock.
- Instillation of protection for planting stock including mulch, staking, tree tubes, cages, fencing, or tip protection.
- Seeding with a no-till drill or a combination of operations that scarifies the surface to expose mineral soil and uniformly distributes the seed, such as frost seeding, drop or rotary spreader, broadcast seeder or cultipacker.
- Tillage or discing, with plows, discs, or harrows such as necessary to prepare a seedbed, thin dense stands of herbaceous vegetation, or prepare a fire break for prescribed fire.

**Implementation of Forest Stand Improvements**

- Reconnoiter and layout of forest and timber stand improvement projects and harvests, including project boundary marking and marking of trees for removal or reserve.
- Intermediate cuts and reproduction cuts in even and non-even aged stands. Potentially including obtaining the highest end use of the forest product.
- Targeted felling of pole to mature sized individual trees as necessary for removal of competing vegetation or as a component of stand improvement. Potentially including obtaining the highest end use of the forest product.
- Mastication of competing understory vegetation or vegetation removal for maintenance of early seral communities with a FECON style rotary drum forestry mower.

The selected contractor will be expected to provide reports, deliverables, and other graphic materials associated with inventory, assessments, analysis and implementation of management and restoration prescriptions, including but not limited to data shapefiles and maps, budgets and cost estimates, acquiring photographs, developing conceptual renderings, design sketches, graphical depictions, typicals, and prototypes, implementation specifications, plans of study, meeting minutes, preparation of permit

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4	Riparian Buffer Services ITQ-409	0.000		0.00	1	0.00

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<b>Item Text</b>	70160000-ITQ-409 Implementation and Ecological Restoration Services					
	<p>Implementation of ecological restoration services shall include scheduling, coordination, and managing all aspects of work produced in close conjunction with natural resource managers. Contractors qualifying under this category shall be responsible for the coordination and completion of awarded projects entailing:</p>					
	<p>Pesticide Application</p> <ul style="list-style-type: none"> <li>• Pesticide suppression of invasive species or competing native vegetation through a variety of techniques including, but not limited to preemergence, high volume foliar, low volume foliar, or ultra low volume foliar, hack and squirt, cut stump, and / or basal bark treatments.</li> <li>• Pesticide suppression of forest pests to include but not limited to stem injection, soil injection, and horticultural oils applications.</li> </ul> <p>Planting and Seeding</p> <ul style="list-style-type: none"> <li>• Pre-planting site or seeding preparations including mechanical (physical clearing such as scarification or tilling) or pesticide applications.</li> <li>• Procurement and installation of plant stock including live stake, brush mattress or wattle, bare root or containerized seedlings, or bare root, containerized, or balled and burlaped landscape stock.</li> <li>• Instillation of protection for planting stock including mulch, staking, tree tubes, cages, fencing, or tip protection.</li> <li>• Seeding with a no-till drill or a combination of operations that scarifies the surface to expose mineral soil and uniformly distributes the seed, such as frost seeding, drop or rotary spreader, broadcast seeder or cultipacker.</li> <li>• Tillage or discing, with plows, discs, or harrows such as necessary to prepare a seedbed, thin dense stands of herbaceous vegetation, or prepare a fire break for prescribed fire.</li> </ul> <p>Implementation of Forest Stand Improvements</p> <ul style="list-style-type: none"> <li>• Reconnoiter and layout of forest and timber stand improvement projects and harvests, including project boundary marking and marking of trees for removal or reserve.</li> <li>• Intermediate cuts and reproduction cuts in even and non-even aged stands. Potentially including obtaining the highest end use of the forest product.</li> <li>• Targeted felling of pole to mature sized individual trees as necessary for removal of competing vegetation or as a component of stand improvement. Potentially including obtaining the highest end use of the forest product.</li> <li>• Mastication of competing understory vegetation or vegetation removal for maintenance of early seral communities with a FECON style rotary drum forestry mower.</li> </ul>					
	<p>The selected contractor will be expected to provide reports, deliverables, and other graphic materials associated with inventory, assessments, analysis and implementation of management and restoration prescriptions, including but not limited to data shapefiles and maps, budgets and cost estimates, acquiring photographs, developing conceptual renderings, design sketches, graphical depictions, typicals, and prototypes, implementation specifications, plans of study, meeting minutes, preparation of permit</p>					

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	application documents, mitigation, operation, and/or maintenance plans and reports, and training materials and presentations.					

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**General Requirements for all Items:**

**Header Text**

The Department of General Services is issuing this contract to procure Sterilization and Disinfecting Services for the Commonwealth of PA. The term of the contract is five years. See attached Statement of Work for contract requirements and specifications.

Questions should be forwarded to Kelly Warnick [kwarnick@pa.gov](mailto:kwarnick@pa.gov) 717.214.3434

No further information for this Contract

**Information:**