

**DESCRIPTION OF INTENDED
SINGLE SOURCE PURCHASE
(PUR 7776)**

AGENCY: Northwest Florida Water Management District

TITLE: Satellite-Based Water Quality Mapping Services

Short description of the commodity or service desired: The Northwest Florida Water Management District plans to purchase satellite-based water quality mapping services for St. Joseph Bay, Florida.

CONTACT

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Internal tracking number, if any: 25S-003

Date posted: 01/08/2025 Last day for receipt of information: 01/29/2025

This description of commodities or contractual services intended for purchase from a single source is posted in accordance with Sections 120.57(3) and 287.057(3), Florida Statutes (F.S.), and will remain posted for a period of at least 15 business days.

Commodity or Contractual Service Required (commodity or United National Standard Products and Services Code (UNSPSC), manufacturer, model, and description, as appropriate):

70171504 Water Resources Mapping Services

70171501 Water Quality Assessment Services

Quantity or Term (as appropriate):

Fiscal Year 2024-2025

Requestor (division, bureau, office, individual, as appropriate):

Paul Thurman, Chief Water Resource Evaluation Bureau, Division of Resource Management

Performance and/or Design Requirements (e.g. intended use, function or application, compatibility, requirements; reference to policy, rule, statute or other act of the Legislature, etc., as appropriate):

Services are needed to map spatial water quality trends, including parameter concentration, using algorithms to analyze the extended data set from pre-existing satellite images. Capabilities should include the ability to map and estimate water quality parameter concentrations for an entire water body (i.e., St. Joseph Bay) at a relatively high resolution. These maps will be utilized to identify point source and chronic water quality impairments to inform potential restoration activities. Individual water quality parameters for which algorithms should be available should include at a minimum: nitrogen, phosphorus, chloride, methane leak detection,

temperature, total suspended solids (TSS), turbidity, chlorophyll-a, phycocyanin, submerged aquatic vegetation (SAV).

Intended Single Source:

Satelytics

Estimated Dollar Amount:

Up to \$400,000

Justification for single source acquisition (what is necessary and unique about the product, service or source; steps taken to confirm unavailability of competition, as appropriate):

Satelytics is a leader in developing satellite-based water quality mapping technology. They have successfully developed algorithms for rapidly assessing spatial distribution and concentrations of water quality parameters (nitrogen, phosphorus, turbidity, etc.). The State of Florida has successfully utilized their services in the southeastern portion of the state. An internet search has revealed no other contractor that has the ability to map and estimate the number or diversity of water quality parameters as Satelytics. To our knowledge, no other contractor can map and estimate nitrogen, phosphorus, turbidity and other parameter concentrations.

Approved By (names & titles, as appropriate, e.g., requestor, requestor management, information systems, budget, purchasing):

Paul Thurman, Chief Bureau of Water Resource Evaluation

Kathleen Coates, Director, Resource Management Division

Jack Furney, Director, Administrative Services

Caitlin Brongel, Chief of Staff

Andrew Joslyn, Deputy Executive Director

Lyle Seigler, Executive Director

Prospective vendors are requested to provide information regarding their ability to supply the commodities or contractual services described. If it is determined in writing by the agency, after reviewing any information received from prospective vendors, that the commodities or contractual services are available only from a single source, the agency shall provide notice of its intended decision to enter a single-source purchase contract in the manner specified in Rule 60A-1.045, Florida Administrative Code, and section 120.57(3), F.S.