



**AGENDA REPORT
January 22, 2019**

**Staff direction to prioritize review and analysis of the January 3, 2019 proposal for installation of water quality monitoring systems by Ocean Research & Conservation Association; authorize execution of contract by County Manager under specified conditions. Bryan A. Lober, Commissioner
District 2**

SUBJECT:

Staff direction to prioritize review and analysis of the January 3, 2019 proposal for installation of water quality monitoring systems by Ocean Research & Conservation Association; authorize execution of contract by County Manager under specified conditions.

FISCAL IMPACT:

Funding for this agenda item is contemplated as originating from the Save the Lagoon Trust Fund (half-cent tax), more specifically from the annual "Respond" allocation for measuring progress to inform future plan updates. The initial year will cost between \$126,000 and \$132,000. Subsequent years, if any, will cost \$120,000 (unless there should be a need to relocate monitoring stations which would increase the cost as set forth below).

DEPT/OFFICE:

District 2

REQUESTED ACTION:

Direct staff to prioritize review and analysis of the January 3, 2019 proposal for installation of water quality monitoring systems provided by Ocean Research & Conservation Association. The proposal is included as an exhibit to this agenda. If, upon analysis, staff determines that the terms presented are reasonable, pricing is at or below the amounts in the attached proposal from January 3, 2019, and staff determines Ocean Research & Conservation Association is a single source provider, the Board waives bid requirements and the County Manager is authorized to execute the contract.

SUMMARY EXPLANATION and BACKGROUND:

The Board of County Commissioners has previously approved a budget, following the recommendation of the Citizens Oversight Committee, for the Save Our Indian River Lagoon Project. That budget includes 1 million dollars for monitoring project performance, efficiency, and cost effectiveness. The 4 new water quality monitoring stations proposed

would fall within the project monitoring program and fulfils some of the goals currently identified. This action seeks to expedite installation of water quality monitoring stations by directing staff to prioritize review and authorizing the County Manager, or his designee, with the assistance of the County Attorney, to investigate contracting with Ocean Research & Conservation Association for the installation and ongoing monitoring of four (4) additional Kilroy nutrient monitoring stations. If staff determines the contractor is a single source provider, the Board hereby waives any bid requirements and authorizes the County Manager to execute the contract pursuant to the proposal terms (attached) and the conditions described below.

In addition to the terms provided in the January 3, 2019 proposal, staff is asked to include contract terms requiring precise deployment locations within the Indian River Lagoon and Banana River to be coordinated and agreed upon between Ocean Research & Conservation Association and the Director of Brevard County's Natural Resources department.

Staff is further asked to consider providing a one-year contract that may be renewed annually for up-to three (3) additional, consecutive, one-year terms provided that the Florida Department of Environmental Protection (hereinafter "DEP") or St John's Water Management District does not reduce or eliminate funding for any existing nutrient or continuous water quality monitoring stations located within 20 miles (point-to-point air distance) of the locations in which the four (4) Kilroy stations authorized by this motion are deployed.

Finally, staff is directed to include language in any contract providing that if Florida Department of Environmental Protection or St John's Water Management District reduces or eliminates funding for any existing nutrient monitoring stations located in the Indian River Lagoon within 20 miles (point-to-point air distance) of the locations in which the four (4) Kilroy stations authorized by this motion are deployed, any renewal shall be timely brought before the Board of County Commissioners for consideration.

CLERK TO THE BOARD INSTRUCTIONS:

Please adjust the Agenda Category to Bryan A. Lober, Commissioner District 2 (option unavailable for selection through Novus)

ATTACHMENTS:

Description

- **Email correspondence between D2 Commission Bryan Lober and ORCA; written proposal from ORCA**



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

January 23, 2019

M E M O R A N D U M

TO: Virginia Barker, Natural Resources Management Director

RE: Item J.3., Staff Direction to Prioritize Review and Analysis of the January 3, 2019, Proposal for Installation of Water Quality Monitoring Systems by Ocean Research and Conservation Association; and Authorize Execution of Contract by County Manager Under Specified Conditions

The Board of County Commissioners, in regular session on January 22, 2019, directed staff to prioritize the review and analysis of the January 3, 2019, proposal for installation of Water Quality Monitoring Systems provided by Ocean Research and Conservation Association; upon completion of the analysis, if staff determines that the terms presented are reasonable, pricing is at or below the amounts proposed from January 3, 2019, and Ocean Research and Conservation Association is a single source provider, the Board approves waiving the bid requirements; and authorized the County Manager to execute the contract providing a one-year contract that may be renewed annually for up to three (3) additional, consecutive, one-year terms providing that the Florida Department of Environmental Protection (FDEP) or St. Johns River Water Management District (SJRWMD) does not reduce or eliminate funding. Should the funding be removed it will come back to the Board to determine whether or not to continue on that course.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe

Tammy Rowe, Deputy Clerk

/kp

cc: Contracts Administration
County Attorney
County Manager
Finance
Budget

Lober, Bryan

From: Lober, Bryan
Sent: Tuesday, November 27, 2018 3:46 PM
To: 'inquiries@teamorca.org'
Cc: Van, Fritz; 'frank.c.golan@nasa.gov'; 'johnweiler@aol.com'
Subject: Request for proposal (ORCA Kilroy sensors)

Dear Sir or Madam:

I understand that ORCA has at least four Kilroy sensor stations, with purchase costs already funded by D.E.P., capable of measuring flow speed, flow direction, water temperature, water level, GPS location, salinity, pH, dissolved oxygen, nitrate, phosphate and, depending on the unit, bioluminescence. I would very much appreciate a written proposal, from ORCA, for the deployment and monitoring of four such units in portions of the Indian River Lagoon located within Brevard County.

I understand the rough cost for annual monitoring is \$30,000 per year but a precise figure would be helpful. Please include with any such proposal information pertaining to how the locations were chosen within the confines of the I.R.L. as this information is critically important.

Please let me know if you should have any questions.

Kind regards,

Bryan

cc: FV, FG, JW

Bryan A. Lober
County Commissioner, District 2
Merritt Island Service Complex
2575 North Courtenay Parkway Suite 200
Merritt Island, Florida 32953
Ph: (321) 454-6601
Fax: (321) 454-6602
E-Mail: D2.Commissioner@BrevardFL.gov

This message may have been sent on a mobile device. Please forgive any typos.

Under Florida law, all correspondence sent to this office, which is not exempt or confidential pursuant to Chapter 119 of the Florida Statutes, is public record. If you do not want the public record contents of your e-mail or your e-mail address to be provided to the public in response to a public records request, please do not send electronic mail to this entity. Instead, contact this office by phone or in writing.

Lober, Bryan

From: Michael Corbet <mcorbet6213@gmail.com>
Sent: Thursday, January 3, 2019 3:53 PM
To: Commissioner, D2
Subject: ORCA Brevard County Proposal
Attachments: image008.jpg; Brevard.2019.doc

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Information Request

Dear Mr. Lober,

Attached is the Proposal you requested, sorry we could not get this too you sooner. Thank you for this opportunity, we are very excited to work with you on this project and anything we can help with in the future. Please let me know if there is anything else I can do for you.

Thank you for your continued support of the Indian River and ORCA's Mission,

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Michael Corbet
Engineer
Ocean Research & Conservation Association
Email: mcorbet@teamorca.org
Web: www.teamorca.org
Office: 772 467 1600



The Ocean Research & Conservation Association is an IRS 501(c)(3) nonprofit corporation dedicated to the protection and restoration of marine ecosystems and the species they sustain through the development of innovative technologies and science based conservation action.

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January 3, 2019

Proposal for Monitoring Services
Brevard County

Objective

To install Kilroy water quality monitoring systems at key locations in the Indian River Lagoon and Banana River in Brevard County. Kilroy Monitoring systems collect data on water characteristics and allow local and state agencies and shareholders the ability to access the health of the waters. Current data is available on ORCA's website at www.teamorca.org. The ORCA web site also provides for historical plotting to provide trend analysis for selected parameters.

Scope of Work

Working with the Brevard Natural Resources Department, sites will be selected along the Indian River Lagoon and Banana River. Monitoring instruments will be placed in these sites to monitor water parameters and nutrient content. ORCA will install Kilroy monitoring systems to monitor for flow speed, flow direction, water temperature, water depth, salinity, turbidity, pH, dissolved oxygen, chlorophyll a, blue green algae and oxygen reduction potential. Monitoring will also be conducted for nitrates and phosphates. Data from this project will allow counties, cities and agencies to assess compliance with established TMDLs and assess the overall health of the areas monitored.

Once desired sites are identified, ORCA will locate the closest structure available for mounting. If no structure is available at the desired location a new location can be identified or a piling can be installed at additional cost.

Data collected from these stations will be available to the public and displayed on the ORCA website teamorca.org. Data is also available in other forms (.csv, .xls) if desired for professional analysis. Deployed instruments will be replaced with calibrated instruments at intervals to ensure accurate data is being collected. Hand samples and comparative sonde measurements will be taken monthly at each station for comparison.

Materials and Services

The Kilroy Monitoring System is comprised of an ORCA designed and constructed monitoring instrument that measures flow speed, flow direction, water depth and water temperature. The Kilroy Monitoring system is integrated with a YSI EXO2 sonde with probes measuring pH/ORP, Conductivity/Temperature, Optical DO, Turbidity, total algae that includes chlorophyll and blue green algae sensors and fDOM. Additionally the Kilroy is integrated with a NuLab nutrient monitoring system that monitors nitrate, nitrite and phosphate by utilizing wet chemistry which is not affected by bromides, water color changes and other contaminants that affect optical nutrient sensors.



OCEAN RESEARCH & CONSERVATION ASSOCIATION, INC.

The integrated package is coupled to an ORCA designed and constructed communications system that reports to the ORCA designed database. The complete system is solar powered and utilizes a battery backup for times when sunlight is not available.

Each deployment site will be visited no less than once per month at which time YSI measurements will be verified using a YSI handheld sonde identical to the deployed instrument measuring salinity/conductivity/temperature, dissolved oxygen, pH/ORP, fDOM, total algae, and turbidity. At each monthly site visit reagents for the NuLab nutrient monitoring device will be replenished and a grab sample will be obtained by ORCA team members and sent to PACE Analytical Services, Inc. for comparability assessment of Nitrate/Nitrite, Orthophosphate and Chlorophyll a. Any deployed instrument found out of calibration will be returned to the lab for calibration and check before redeployment.

Cost

Initial installation cost - \$1500.00 for each Kilroy Monitoring system.

Piling installation if needed - \$1500.00 per piling plus permit cost.

Yearly Maintenance cost - \$30,000.00 per system.