

The following documentation is an electronicallysubmitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

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General Information Contact D	efault Values Discount	Document Information	Clarification Request									
Procurement Folder:	891802				so	Doc Code: C	RFQ					1
Procurement Type:	Central Purchase Order					SO Dept: 0	313					
Vendor ID:	000000174281	金				SO Doc ID:	EP21000000	38				
Legal Name:	FONDRIEST ENVIRONM	IENTAL INC			Publ	ished Date: 6	/30/21					
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Response Time:	15:57				Solicitation D	escription:	Nater Quality	Sondes with wipe				
Responded By User ID:	LizFondriest	金		т	otal of Header At	tachments: 3						
First Name:	Liz				Total of All At	tachments: 3						
Last Name:	Fondriest											
Email:	Liz@fondriest.com											
Phone:	937-426-2151											



Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Solicitation Response

Proc Folder:	891802	1802					
Solicitation Description:	vicitation Description: Water Quality Sondes with wiper						
Proc Type:	Central Purchase	ntral Purchase Order					
Solicitation Closes		Solicitation Response	Version				
2021-07-07 13:30		SR 0313 ESR0706210000000063	1				

VENDOR					
000000174281 FONDRIEST ENVIRONN	IENTAL INC				
Solicitation Number:	CRFQ 0313 DEP210000038				
Total Bid:	33024.199999999999708961695432 Response Date:	2021-07-06	Response Time:	15:57:33	

Comments:

FOR INFORMATION CONTACT THE BUYER Joseph E Hager III (304) 558-2306 joseph.e.hageriii@wv.gov

Vendor

Signature X

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Item 3.1.1 Multiparameter Water Sonde	4.00000	EA	5290.400000	21161.60
Comm	Code Manufacturer		Specifica	tion	Model #

41111965

Commodity Line Comments: EXO3 multi-parameter water quality sonde with 4 sensor ports & 1 wiper port, no depth sensor EXO central wiper

Extended Description:

4 or 5 port multiparameter water quality sonde with central wiper (such as EXO 3, Aquatroll 600, or equal) Must be capable of collecting, logging, and storing parameter data from multiple sensors via self contained battery power supply (battery type must be field replaceable), port/sensor status monitoring capability, & QC software to check and validate probe configuration and calibration. Sonde must include proper storage and calibration "cup".

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Item 3.1.2 Sonde Guard	4.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #	
41111965				

Commodity Line Comments: Included standard with line 1.

Extended Description:

Sonde guard to protect probes and guard weight to minimize drift/movement of unit in water column

Line	Comm Ln Desc		Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Item 3.1.3 PH Sensor		4.00000	EA	484.500000	1938.00
Comm	Code	Manufacturer		Specifica	tion	Model #
411119	965					

Commodity Line Comments: EXO unguarded pH sensor

Extended Description:

PH Sensor as per attached

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Item 3.1.4 Temperature Sensor	4.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #	
41111965				

Commodity Line Comments: Included standard with line 5.

Extended Description:

Temperature sensor with 2 decimal place resolution, must be interchangeable in the field and wet-mateable for easy replacement

Line	Comm Ln Desc		Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Item 3.1.5 Conductivity Se	ensor	4.00000	EA	782.000000	3128.00
Comm	Code	Manufacturer		Specificatio	on	Model #
411119	65					

Commodity Line Comments: EXO conductivity & temperature sensor

Extended Description:

Conductivity sensor capable of displaying specific conductance and a range of at least 0 - 100 mS/cm. Hand-held display or display software must be able to report in uS/cm., must be interchangeable in the field and wet-mateable for easy replacement

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	Item 3.1.6 Optical DO Sensor	4.00000	EA	1699.150000	6796.60

Comm Code	Manufacturer	Specification	Model #	
41111965				

Commodity Line Comments: EXO optical dissolved oxygen sensor

Extended Description:

Optical DO sensor outfitted with field replaceable DO cap, must be interchangeable in the field and wet-mateable for easy replacement

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	Item 3.1.7 Sonde Specific Software	1.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #	
43230000				

Commodity Line Comments: Included standard with line 1.

Extended Description:

Sonde specific software to allow viewing of logged/collected data, graphic display, QA/QC, and basic analysis either via hand-held or via PC

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	Shipping/Handling	1.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
78121603			

Commodity Line Comments: Free ground shipping.

Extended Description:

Shipping and Handling





EXO Sondes

BEST-IN-CLASS PLATFORM FOR THE HIGHEST-QUALITY DATA



EXO Sonde Brochure E102-07

a **xylem** brand



When only the best will do.

EXO is the premium water quality monitoring platform in the world.

The unmatched benefits of **EXO** include:



Highest Data Quality Onboard monitoring systems verify sensor operation



Industry-leading Anti-fouling Best-in-class anti-fouling wiper technology



Smart QC[™] SmartQC checks for errors and ensures proper calibrations



Titanium Components The toughest grade parts guarantee operation well into the future



Digital Smart Sensors Auto-recognition of any sensor in any port

EXO2^s





A Smart, Field-Ready Water Monitoring Platform

Best-In-Class Sonde Platform



Cable connector, battery valve, and expansion port on EXO2



Smart ports accept any sensor, or central port may be used for anti-fouling wiper



Anti-fouling wiper cleans sensor faces, minimizing maintenance and maximizing length of deployment





*Battery life will depend on the type of sensors and measurement frequency. Specifications indicate typical performance and are subject to change. Please check YSI.com/EXO for up-to-date information.

Sonde Specifications

Sondes	
Operating Temperature	-5 to 50°C
Storage Temperature	-20 to 80°C (may differ
Depth Rating	0 to 250 m
Communications	Computer Interface: BI Output Options: USB w Modbus & RS-485 with
Sample Rate	Up to 4 Hz
Data Memory	512 MB total memory;
Warranty	2 years

EXO Sondes are perfect for long-term deployments. Daisychain multiple sondes for measurements at vaious depths.



XO2	EXO2 ^s	EXO3	
7	7	5	
D-cell	External Power	2 D-cell	
0 days*	N/A	60 days*	
h: 71.10 cm ter: 7.62 cm	Length: 47.00 cm Diameter: 7.62 cm	Length: 58.67 cm Diameter: 7.62 cm	
.60 kg	1.10 kg	2.00 kg	
Adapter	with Adapter	Integral	
\checkmark			
\checkmark	\checkmark	\checkmark	
\checkmark	\checkmark		

for sensors)

luetooth wireless technology, RS-485, USB with signal output adapter (SOA); RS-232 & SDI-12 with DCP-SOA; Modbus-SOA

>1,000,000 logged readings





Monitoring Made Mobile

EXO GO

EXO GO uses Bluetooth to connect any Windows OS **EXO Sonde**.

of KorEXO Software for your

Choose **EXO GO** for the flexibility of monitoring with any Windows OS device and access to the full features of KorEXO Software. EXO GO cuts out the middleman and delivers data directly to your PC!



Monhoring Made Materia

KorEXO Software

Bring the full power of KorEXO to your site with any Windows OS portable device

Bluetooth Communication

Keep your sonde in the water while you view data in real time, download files, or adjust deployment settings on the GO



Ver de la	EXO GO	EXO Handheld
USB Connectivity	\checkmark	\checkmark
Bluetooth Connectivity	\checkmark	
IP-67 Rating	\checkmark	\checkmark
Display		\checkmark
Onboard Memory		\checkmark
Operating Temperature	-5 to 50°C	0 to 50°C
Storage Temperature	0 to 45°C	0 to 45°C
Dimensions	17.4 x 5.2 x 3.5 cm	8.3 x 21.6 x 5.6 cm
Weight	240 g	567 g
Warranty	1 year	3 year meter, 1 year battery

	Common Features
GPS	Accuracy: 2.5 m CEP (dependent on site conditions)
Barometer	Range: 375 to 825 mmHg Accuracy: +/-1.5 mmHg Resolution 0.1 mmHg
Battery	Operating Time: >15 hours Charging Time: 9 hours









The **EXO Handheld** offers a dedicated, streamlined interface to **EXO Sondes**.

Convenient monitoring is achieved with a backlit color display, ergonomic design, and simple operation.

Choose the **EXO Handheld** for an easy-to-use, purposebuilt interface with a tactile keypad and full color display. Keep it simple and collect data in the most challenging environments with the EXO Handheld!

Simplified Interface

Lower the learning curve of collecting high-quality data with a simplified user interface and integrated help screens

EXO Handheld

Common Feature

Transfer Data

Quickly transfer collected data sets and calibration records to a USB flash drive with the push of a button

Lithium-Ion Battery Collect more samples with the longlasting, rechargeable battery

Smart Sensor Suite A dynamic range of sensors for multiparameter applications **CENTRAL WIPER** pH/ORP DO **TAL-PC fDOM** C/T (WIPED) **TURBIDITY**

DEPTH



Sensors Not Shown			
CONDUCTIVITY / TEMPERATURE (NON-WIPED)	0		
TOTAL ALGAE-PE			
CHLORIDE ISE			
NITRATE ISE			
рН			
RHODAMINE			
0			

Sensor Specifications

Sensor	Range	Resolution ¹	Accuracy ²		
Conductivity (Non-Wiped)	0 to 200 mS/cm	0.0001 to 0.01 mS/cm	±0.5% of reading or 0.001 mS/cm, w.i.g. (0-100 mS/cm ±1% of reading (100-200 mS/cm)		
Temperature -5 to 50°C 0.001°C		±0.01°C (-5 to 35°C) ±0.05°C (35 to 50°C)			
Conductivity (Wiped)	0 to 100 mS/cm	0.0001 to 0.01 mS/cm	±1% of reading or 2 μS/cm, w.i.g.		
Temperature	-5 to 50°C	0.001°C	±0.2°C		
Depth	0 to 10, 100 or 250 m	0.001 m	±0.04% Full Scale		
or Vented Level	0 to 10 m	0.001 m	±0.03% Full Scale		
	0 to 500% air sat.	0.1% air sat.	±1% of reading or 1% sat., w.i.g., (0 to 200%) ±5% of reading (200 to 500%)		
Dissolved Oxygen	0 to 50 mg/L	0.01 mg/L	±1% of reading or 0.1 mg/L, w.i.g., (0 to 20 mg/L) ±5% of reading (20 to 50 mg/L)		
fDOM 0 to 300 ppb QSE 0.01 ppb QSE		Linearity: $r^2 \ge 0.999$ for 0 to 300 ppb QSE, MDL of 0.016 ppb QSE			
рН	0-14 pH units	0.01 pH unit	±0.1 within ±10°C of cal temp ±0.2 for all other temps		
ORP	-999 to 999 mV	0.1 mV	±20 mV		
Rhodamine	0 to 100 RFU or 0 to 1,000 μg/L	0.01 RFU or 0.01 µg/L	±5% or 0.1 μg/L w.i.g, Linearity: r ₂ > 0.999		
TAL-Chlorophyll	0 to 100 RFU or 0 to 400 μg/L chl				
TAL-Phycocyanin	0 to 100 RFU or 0 to 100 μg/L PC	0.01 RFU or 0.01 μg/L of pigment	Linearity: $r^2 \ge 0.999$ for Rhodamine WT across full range		
TAL-Phycoerythrin	0 to 100 RFU or 0 to 280 μg/L PE				
Turbidity	0 to 4000 FNU	0.01 FNU to 0.1 FNU	0.3 FNU or ±3% of reading, (0 to 999 FNU) ±5% of reading (1000 to 4000 FNU)		

¹Range dependent.

²Specifications indicate typical performance and are subject to change. Please check YSI.com/EXO for up-to-date information.



Calculated Parameters

The following parameters are calculated from one or more sensors listed above. More information about the methods and calculations may be found in the EXO User Manual.

- Absolute Pressure
- Ammonia
- DO% Local
- DO% LocalB
- Gauge Pressure
- nLF Conductivity
- Resistivity

- Salinity
- Specific Conductivity
- Total Algae cells/mL
- Total Dissolved Solids
- Total Suspended Solids
- Vertical Position
- Water Density

KorEXO Software

KorEXO is an accessible, feature-rich software platform for managing EXO instrumentation and water quality data. The software allows you to calibrate sensors, setup long-term deployments, and ensure equipment is operating at peak performance. Designed to run on Windows OS computers and tablets, the interface is optimized for touchscreens and streamlined for operation in the field, lab, or office.



Support and Protection for Your Peace of Mind **Protect your investment with the**

EXO Factory Service Plan*

With an **EXO Factory Service Plan**, you can minimize down-time and unexpected maintenance costs by keeping your equipment in top working order.

What does the Service Plan include?

Plans cover standard replacement parts, firmware updates, seal restoration, cleaning, comprehensive evaluation, testing, and calibration of all sensors.

What equipment is covered?

Each plan covers a single EXO sonde, field cable, handheld, and sensors purchased with the sonde.

How long does coverage last?

Plans are available for coverage up to 3 years from the time the EXO Sonde is purchased.

*Currently available in North America. Check with your regional technical support for service options.

Industry-Leading Technical Support

Our expert **Technical Support Team** is available to provide assistance and answer any questions that may come up in the field or lab.



Call +1 (937) 767-2762 to speak with our knowledgeable staff



Email info@ysi.com for questions regarding your EXO equipment



Live Chat at YSI.com for immediate response from technical experts



Factory Service Center located in Yellow Springs, Ohio





Technicians are available for in-house or on-site training events



Xylem |'zīləm|

The tissue in plants that brings water upward from the roots;
a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com





YSI, a Xylem brand 1725 Brannum Lane Yellow Springs, OH 45387

+1.937.767.7241



YSI.com

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SOLICITATION NUMBER: Addendum Number:

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- [] Modify bid opening date and time
- [] Modify specifications of product or service being sought
- [] Attachment of vendor questions and responses
- [] Attachment of pre-bid sign-in sheet
- [] Correction of error
- [] Other

Description of Modification to Solicitation:

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- 2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

[]	X]	Addendum No. 1	[]	Addendum No. 6
[]	Addendum No. 2	[]	Addendum No. 7
[]	Addendum No. 3	[]	Addendum No. 8
[]	Addendum No. 4	[]	Addendum No. 9
[]	Addendum No. 5	[]	Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Fondriest Enviro	onmental, Inc.
	Company
PreNe	Authorized Signature
7/6/2021	Aumonzed Signature
	Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing. Revised 6/8/2012

RFI: Questions from vendors for CRFQ DEP21*38 Water Quality Sondes with Wiper

Q.1. On the proposal you are asking for a conductivity sensor and a temperature sensor. I have what we call a combo sensor that has both temperature and conductivity on it. Will it be OK to use this sensor? This would allow the user to add one more sensor if circumstances required another parameter? We would then need to add a port plug, but I could include that in the cost of the Sonde.

A. Yes, if it is a combo that covers both parameters that is acceptable.

Q.2. I wanted to clarify the temperature / conductivity sensor. We have a stand alone temperature sensor, but it you want both temperature and conductivity then both of these will be on one sensor. Most of our sensors are temperature compensated, this is why we have a stand alone temperature sensor.

A. The temperature parameter can come from the combo sensor, and does not need to be a stand alone sensor.

Q.3. I wanted to circle back with you about a couple of items you should add to the parts, so the AT 600 will work correctly.As I mentioned earlier, we don't carry a stand alone conductivity sensor. What we carry is a temperature sensor, and the combo sensor of Temperature / Conductivity sensor, which is part number 0063491. Because of this you will have one open port, so you will need to add a port plug.

The part number the port plug is 0063510.

The other item you will need, unless you have a direct read cable that you will attach to the AT 600, is a Twist Lock Hanger. This is a cap that goes on top of the sonde. This will allow you to run a steel cable through the cap and then anchor it to the ground or hang it from the top of the well.

The part number for this is: 0051480.

I just wanted to make sure people are adding these to their quote, so the equipment will work for you out of the box.

A. Per Section 3.1.1.1 on the specifications, the port plug will be needed if there is an open port as mentioned. Regarding the Twist Lock Hanger, yes this will be needed for the AT 600 if that is required for the sonde to be used without a communication cable.