

## **Water Sampling System Specifications**

Components for the Water Sampling System are listed below. All components are required to be compatible with the existing county water sampling systems. The current systems include the following equipment: Teledyne Isco Avalanche Sampler, 750 Area Velocity Flow Module, 674 Rain Gauge, 730 Bubbler Level Module, Flowlink Software, and Thel-Mar Volumetric Weir. Components should be listed as separate line items in the quote or multiple line items per component if needed. Estimated quantities are listed for each item. Actual quantity will depend on project timing and sequence. Actual quantities for individual line items could be none. The delivery destination of the system is the Central Office Complex, 3363 West Park Place, Pensacola, FL 32505. Delivery fees, to destination, should be incorporated in the item unit price(s).

### Item 1: Automatic Sampler

The Water Sampling System will utilize a Teledyne Isco Avalanche Sampler (Part Number: 682970003) or approved equivalent based on the following capabilities. The sampler will be portable (<80 lbs.), capable of sample refrigeration (maintaining a temperature of  $3.0^{\circ} \text{C} \pm 1^{\circ}$ ), and utilize a peristaltic pump to collect liquid samples. The sampler will be capable of collecting a flow or time weighted, composite or sequential samples utilizing a one or two part sampling programs. The sampler will have an integrated controller for programming the sampler. The sampler will have modular attachments to measure sample trigger condition, such as flow, level, rainfall, and other environmental conditions. The sampler will be capable of power supplied by both 12 VDC and 120 VAC. Standard equipment with the sampler includes peristaltic pump tubing and power cords for DC and/or AC.

Estimated Quantity:1

All following components must be compatible with the system above.

### Item 2-3: Flow Module

The system will include a Teledyne Isco 750 Area Velocity Flow Module with low profile sensor, 25 foot cable, 25 ft. extension cable, and mounting hardware or approved equivalent based on the following capabilities. The module will measure flow utilizing 500kHz Doppler and level utilizing a submerged pressure transducer. The module will communicate with the automatic sampler.

Estimated Quantity of Module (Item 2): 4

Estimated Quantity of Extension Cable (Item 3): 1

### Item 4: Rain Gauge

The system will include a Teledyne Isco 674 Rain Gauge or approved equivalent based on the following capabilities. The rain gauge will measure rainfall utilizing 0.01 inch tipping bucket. The rain gauge will communicate with the automatic sampler.

Estimated Quantity: 1

#### Item 5: Telemetry

The system will include a Teledyne Isco 6712Ci LTE Cellular modem with antenna or approved equivalent based on the following capabilities. The telemetry will provide access, control and data transfer by IP address over a LTE cellular network between the sampling system and a personal computer utilizing Teledyne Isco Flowlink Software.

Estimated Quantity: 5

#### Item 6: Sample Collection Vessel

The system will include a 20 liter polyethylene sample bottles with caps and discharge tubing that fit within the refrigerated sample collection area.

Estimated Quantity: 1

#### Items 7-9: Stormwater Pipe Installation Hardware

The system will include Teledyne Isco Scissor Ring Kit or approved equivalent based on the following capabilities. The hardware will mount securely sampling equipment (sample strainer, sensors and other required sampling equipment) within a circular (8 in to 64 in) stormwater pipe or equivalent elliptical pipe.

Estimated Quantity of 16-36 inch (Item 7): 2

Estimated Quantity of 39-43 inch (Item 8): 3

Estimated Quantity of 45-49 inch (Item 9): 2

#### Item 10: 3/8 inch Vinyl Suction Line

3/8 inch Vinyl Suction Line will be compatible with sampling system, utilized for sample collection and system purging or approved equivalent.

Estimated Quantity: 1 unit of 100 feet

#### Item 11: 3/8 inch Weighted Polypropylene Strainer

3/8 inch Weighted Polypropylene Strainer will be compatible with sampling system and scissor ring kit, utilized for sample collection or approved equivalent.

Estimated Quantity: 1

#### Item 12: Peristaltic Pump Tubing

Peristaltic Pump Tubing will be compatible with sampling system or approved equivalent.

Estimated Quantity: 1 unit of 5 tubes

The pricing quotes for this request should be provided in a format that allows for this system to be purchased in part or in whole. Quotes should be structured with components as line items, with an adjustable unit multiplier to allow for various quantities, to include "0" or none.

Alternative equipment must be submitted for determination of equivalency. Submitters must provide, for the alternative equipment, the manufacturer and the item model name/number.

Any questions and correspondence regarding this request, including alternative equipment, must be submitted through the website.

## Itemized List of Components

Description	Quantity	Units of Measure	Are Substitutions Allowed?
<b>Item 1: Automatic Sampler</b>	1	Each (EA)	Yes
<b>Item 2: Flow Module</b>	4	Each (EA)	Yes
<b>Item 3: Flow Module Extension Cable</b>	1	Each (EA)	Yes
<b>Item 4: Rain Gauge</b>	1	Each (EA)	Yes
<b>Item 5: Telemetry</b>	5	Each (EA)	Yes
<b>Item 6: Sample Collection Vessel</b>	1	Each (EA)	Yes
<b>Item 7: Stormwater Pipe Installation Hardware (16-36 inch)</b>	2	Each (EA)	Yes
<b>Item 8: Stormwater Pipe Installation Hardware (39-43 inch)</b>	3	Each (EA)	Yes
<b>Item 9: Stormwater Pipe Installation Hardware (45-49 inch)</b>	2	Each (EA)	Yes
<b>Item 10: 3/8 inch Vinyl Suction Line (100 feet section)</b>	1	Each (EA)	Yes
<b>Item 11: 3/8 inch Weighted Polypropylene Strainer</b>	1	Each (EA)	Yes
<b>Item 12: Peristaltic Pump Tubing (Package of 5)</b>	1	Each (EA)	Yes

**Price Quote**

Description	Estimated Purchase Quantity*	Unit Price*	Proposed Alternative Equipment*	Alternative Equipment Manufacturer**	Alternative Equipment Model Number and/or Name**
Item 1: Automatic Sampler	1				
Item 2: Flow Module	4				
Item 3: Flow Module Extension Cable	1				
Item 4: Rain Gauge	1				
Item 5: Telemetry	5				
Item 6: Sample Collection Vessel	1				
Item 7: Stormwater Pipe Installation Hardware (16-36 inch)	2				
Item 8: Stormwater Pipe Installation Hardware (39-43 inch)	3				
Item 9: Stormwater Pipe Installation Hardware (45-49 inch)	2				
Item 10: 3/8 inch Vinyl Suction Line	1				
Item 11: 3/8 inch Weighted Polypropylene Strainer	1				
Item 12: Peristaltic Pump Tubing	1				
<b>Total</b>	---		---	---	---

\* Required Column (Total is based on Estimate Purchase Quantities and Unit Prices)

\*\* Only Required if Proposed Alternative Equipment is Yes

## Respondent/Submitter Information

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Date

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Name and Title

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Company

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Address

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Email Address

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Telephone Number