

City of McMinnville
Water Reclamation Facility Tertiary Treatment
and Disinfection Project
Project 2017-2
ADDENDUM NO. 1

October 23, 2018

A. SCOPE

This Addendum No. 1 consists of pages AD-1 through AD-2 and incorporates additions and changes to the Contract Documents for the McMinnville Water Reclamation Facility Tertiary Treatment and Disinfection Project 2017-2. Bidders shall acknowledge receipt of this Addendum and attached Section 00 41 13, Bid Form.

B. PROCUREMENT REQUIREMENTS

1. Section 00 41 13, Bid Form. REPLACE as herein attached.

C. SPECIFICATIONS

1. Section 01 12 10, Allowances.
 - a. Page 1, Article 1.02, Allowance Amounts, Paragraph A.1. REPLACE “\$670,140” with “\$653,862”.
 - b. Supplement Quotation (Trojan Technologies, Inc.). REPLACE the Trojan Quotation Supplement (dated October 1, 2018) with the attached quotation (dated October 19, 2018).
2. Section 09 97 13, Steel Tank Coatings. Page 6, Article 2.02, Materials, Paragraphs D. through G. DELETE in their entirety and REPLACE with the following:
 - “D. Chemical Resistant Epoxy: Solvent free, flake-reinforced, novolac epoxy capable of 40-mil dry film thickness per coat, and suitable for exposure to digested sludge and moist atmosphere with corrosive gases at 150 degrees F. Carboline Plasite 4550S, Sherwin-Williams Nova-Plate 325, “or-equal.”
 - E. Epoxy Filler/Surfacer: 100 percent solids epoxy trowel grade filler and surfacer, nonshrinking. Carboline Carboguard 695 PM, Sherwin-Williams Steel-Seam FT910, “or-equal.”

- F. Fiber Glass Repair: Solventless, clear, epoxy lining that can be applied in conjunction with reinforced glass fibers. Carboline Carboguard 695 CLR, Sherwin-Williams Dura-Plate UHS, “or-equal.”
 - G. Fiber Glass Cloth: As recommended by the coating manufacturer.
 - H. Gel Coat: Solventless epoxy lining compatible with the fiberglass repair areas and suitable as a primer for the Chemical Resistant Epoxy. As recommended by the coating manufacturer.”
- 3. Section 44 44 13.01, Chemical Metering System. Page 1, Article 1.01, Work Included, Paragraph A. ADD the following sentence to the end of the paragraph:

“The temporary PAA system location, power source, and dosing point shall be within 30 feet of the UV Facility and shall be coordinated with the Owner.”

D. REFERENCE INFORMATION

- 1. Bidder Prebid meeting minutes and sign-in sheet have been posted to the City of McMinnville website.
- 2. Bidder questions and responses have been posted to the City of McMinnville website.

END OF ADDENDUM NO. 1

TERTIARY TREATMENT AND DISINFECTION

NOTE TO BIDDER: Use typewriter or ink for completing this Bid Form.

BID FORM (STIPULATED PRICE BASIS)

1. BID RECIPIENT

1.1. This Bid is submitted to City of McMinnville, Oregon.

1.2. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Contract Documents entitled "Water Reclamation Facility Tertiary Treatment and Disinfection Project 2017-2," for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

2. BIDDER'S ACKNOWLEDGEMENTS

2.1. Bidder accepts all of the terms and conditions of the Bidding Documents and Contract Documents, including without limitation those in the Advertisement to Bid and Instructions to Bidders dealing with the disposition of Bid security.

2.2. This Bid will remain subject to acceptance for 60 days after the Bid due date, unless otherwise required by law. Bidder will enter into an Agreement within the time and in the manner required in the Advertisement to Bid and Instructions to Bidders and will furnish the insurance certificates, Payment Bond, Performance Bond, and copies of Public Works Bonds required by the Contract Documents.

2.3. Bidder agrees that as Contractor, it will comply with ORS 279C.838, ORS 279C.840, or 40 USC Section 3141 et seq.

3. BIDDER'S REPRESENTATIONS

3.1. In submitting this Bid, Bidder represents that:

3.1.1. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

Addendum No.	Addendum Date
_____	_____
_____	_____
_____	_____

(Bidder shall insert number of each Addendum received.)

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3.1.2. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

3.1.3. Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

3.1.4. Bidder has carefully studied: i) reports of explorations and tests of subsurface conditions at or contiguous to the Site and drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) which have been identified in Paragraph 5.03 of the Supplementary Conditions as containing reliable “technical data”; and ii) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in Paragraph 5.06 of the Supplementary Conditions as containing reliable “technical data.”

3.1.5. Bidder has considered the information known to Bidder; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder’s safety precautions and programs.

3.1.6. Based on information and observations referred to in paragraph above, Bidder does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) Bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.

3.1.7. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

3.1.8. Bidder has given Engineer written notice of conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.

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3.1.9. The Bidding Documents are generally sufficient to indicate and convey understanding of terms and conditions for the performance of the Work for which this Bid is submitted.

4. BIDDER'S CERTIFICATION

4.1. Bidder certifies:

4.1.1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization or corporation;

4.1.2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

4.1.3. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

4.1.4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this paragraph:

4.1.4.1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;

4.1.4.2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish Bid prices at artificial noncompetitive levels, or (c) to deprive Owner of the benefits of free and open competition;

4.1.4.3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, noncompetitive levels; and

4.1.4.4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

4.1.5. Required sales and use taxes are included in the stated Bid prices for the Work unless provision is made herein for the Bidder to separately itemize the estimated amount of sales tax or if Instructions to Bidders state Owner is tax exempt.

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4.1.6. Bidder accepts the provisions required by ORS 279C.840 relating to prevailing wage rates and that Bidder shall make applicable restitution to the Oregon Bureau of Labor and Industries Commissioner in accordance with ORS 279C.825.

4.1.7. Neither Bidder nor their Subcontractors are on the Bureau of Labor and Industries list of persons having violated prevailing wage rate laws.

4.1.8. Bidder has not discriminated and will not discriminate, in violation of ORS 279A.110(1) against any minority, women, or emerging small business enterprises certified under ORS 200.055, or against a business enterprise that is owned or controlled by or that employs a disabled veteran, as defined in ORS 408.225, in obtaining required subcontracts.

4.1.9. Bidder is not in violation of any tax laws described in ORS 305.385.

4.1.10. Bidder has established a drug-testing program for employees per ORS 279C.505. Bidder further certifies that it will demonstrate that the employee drug-testing program is in place.

4.1.11. In accordance with OAR 137-049-0200, Subcontractors performing work will be registered with the Construction Contractors Board before Subcontractor commences work.

5. ATTACHMENTS TO THIS BID

5.1. The following documents are submitted with and made a condition of this Bid:

5.1.1. Bid Schedule

5.1.2. Bid Certificate (if Corporation)

5.1.3. Bid Certificate (if Partnership)

5.1.4. Bid Certificate (if Limited Liability Company)

5.1.5. Bid Certificate (if Joint Venture)

5.1.6. Bid Bond

5.1.7. Affidavit of Noncollusion

5.1.8. Resident/Nonresident Bidder Status Form

5.1.9. First-Tier Subcontractor Disclosure Form

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To all the foregoing, and including all Bid Forms contained in this Bid, the Bidder further agrees to complete the Work required under the Contract Documents within the Contract Time stipulated in the Contract Documents, and to accept in full payment therefore the Contract Price based on the Lump Sum Price(s) named in the Bid Forms.

Dated:_____ Bidder:_____

By:_____

Name (Signature)

Name (Type or Print)

Title:_____

TERTIARY TREATMENT AND DISINFECTION

BID SCHEDULE

Schedule of Base Bid Prices for the
City of McMinnville Water Reclamation Facility
Tertiary Treatment and Disinfection Project 2017-2

LUMP SUM WORK: Bidder proposes and agrees to accept as full payment the following bid amount for the City of McMinnville Water Reclamation Facility Tertiary Treatment and Disinfection Project 2017-2 proposed within the Bidding Documents and certifies that this amount is based upon the undersigned's own estimate of quantities and costs and includes sales, consumer, use and other taxes, except as provided below, overhead and profit and excludes the cost of the Bid Alternate listed below.

- A. Lump Sum Allowance for UV System
(Section 44 44 59): \$ _____
- B. Lump Sum Allowance for Filter System Automatic Backwash Retrofit
(Section 46 41 23): \$ _____
- C. Lump Sum Remaining Work: \$ _____
- D. Total Lump Sum (Sum of Items A, B, and C **BASIS OF BID AWARD**):
- \$ _____
(figures)
- \$ _____
(words)
- (The amount in words takes precedence)

ADDITIVE BID ALTERNATES:

(Amount must be shown for Additive Bid Alternates. Bidder proposes and agrees to accept as full payment for the Additive Bid Alternates and certifies that these amounts are based upon the undersigned's own estimate of quantities and costs and includes sales, consumer, use and other taxes, except as provided below, overhead and profit. The Bidder must hold price shown until 60 days after Bid Opening date. **Do NOT include with Total Lump Sum shown above.**)

Additive Alternate No. 1:

Lump Sum for Coatings for Existing Tertiary Clarifiers (Section 09 96 35):

\$ _____
(figures)

\$ _____
(words)

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Additive Alternate No. 2:

Lump Sum for Coating for Steel Tank Coatings (Section 09 97 13):

A. Base Bid for Coating Work: \$_____

B. Interior Repairs:*

Unit cost of repair work based on 500 square feet (per square foot): \$_____

Cost of repair work based on 500 square feet: \$_____

TOTAL COST (A+B): \$_____

*Extent of repair work shall be determined by Owner and Engineer after Contractor completes initial surface preparation. Unit cost shall apply to coverage areas up to 1,000 square feet and will be paid based on actual coverage area. For the purpose of bid evaluation, repair work shall be based on 500 square feet of coverage area.

Lump Sum for Coating for Existing ATAD No. 3 (Section 09 97 13):

\$_____

(figures)

\$_____

(words)

TERTIARY TREATMENT AND DISINFECTION

**BID CERTIFICATE
(if Corporation)**

STATE OF _____)
) ss:
COUNTY OF _____)

I HEREBY CERTIFY that a meeting of the Board of Directors of the _____

a corporation existing under the laws of the State of _____, was held on _____, 2018, and the following resolution was duly passed and adopted:

“RESOLVED, that _____ as _____ of this Corporation, be and is hereby authorized to execute Bid for City of McMinnville Water Reclamation Facility Tertiary Treatment and Disinfection Project 2017-2 dated _____, 2018 to City of McMinnville, Oregon, by this Corporation and that his/her execution thereof, attested by the Secretary of this Corporation shall be the official act and deed of this Corporation.”

I further certify that the resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 2018.

(Signature)

(Title)

Secretary

(Address)

TERTIARY TREATMENT AND DISINFECTION

BID CERTIFICATE
(if Partnership)

STATE OF _____)
) ss:
COUNTY OF _____)

I HEREBY CERTIFY that a meeting of the Partners of the _____

a partnership existing under the laws of the State of _____, was held on _____, 2018, and the following resolution was duly passed and adopted:

“RESOLVED, that _____, as _____ of the Partnership, be and is hereby authorized to execute Bid for City of McMinnville Water Reclamation Facility Tertiary Treatment and Disinfection Project 2017-2 dated _____, 2018 to City of McMinnville, Oregon, by this Partnership and that his/her execution thereof, attested by the General Partner shall be the official act and deed of this Partnership.”

I further certify that the resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 2018.

(Signature)

(Title)

(Address)

TERTIARY TREATMENT AND DISINFECTION

BID CERTIFICATE
(if Limited Liability Company)

STATE OF _____)
) ss:
COUNTY OF _____)

I HEREBY CERTIFY that a meeting of the Members or Managers of the

(Insert Limited Liability Company Name Here)

a limited liability company existing under the laws of the State of _____, was held on _____, 2018, and the following resolution was duly passed and adopted:

“RESOLVED, that _____, as _____ of this limited liability company, be and is hereby authorized to execute Bid for City of McMinnville Water Reclamation Facility Tertiary Treatment and Disinfection Project 2017-2 dated _____, 2018 to City of McMinnville, Oregon, by this limited liability company and that his/her execution thereof, attested by _____ of this limited liability company shall be the official act and deed of this limited liability company.”

I further certify that the resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 2018.

By: _____
(Signature)

(Title)

(Address)

TERTIARY TREATMENT AND DISINFECTION

BID CERTIFICATE
(if Joint Venture)

STATE OF _____)
) ss:
COUNTY OF _____)

I HEREBY CERTIFY that a meeting of the Principals of the _____

a joint venture existing under the laws of the State of _____, was held on _____, 2018, and the following resolution was duly passed and adopted:

“RESOLVED, that _____, as _____ of the Joint Venture, be and is hereby authorized to execute Bid for City of McMinnville Water Reclamation Facility Tertiary Treatment and Disinfection Project 2017-2 dated _____, 2018 to City of McMinnville, Oregon, by this Joint Venture and that his/her execution thereof, attested by the _____ shall be the official act and deed of this Joint Venture.”

I further certify that the resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 2018.

Managing Partner

(Address)

TERTIARY TREATMENT AND DISINFECTION

RESIDENT/NONRESIDENT BIDDER STATUS FORM

CITY OF MCMINNVILLE WATER RECLAMATION FACILITY TERTIARY TREATMENT AND DISINFECTION PROJECT 2017-2

Oregon law (ORS 279A.120) requires Owner, in determining the lowest responsible bidder, to add a percent increase on the bid of a nonresident bidder equal to the percent, if any, of the preference given to resident bidders in the state in which that bidder resides. Consequently, each bidder must indicate whether it is a resident or nonresident bidder. A resident bidder is a bidder who has paid unemployment taxes or income taxes in Oregon during the 12 calendar months immediately preceding submission of this bid, and has a business address in Oregon, and has stated in its bid whether the bidder is a "resident bidder." A "nonresident bidder" is a bidder who is not a resident bidder.

The undersigned bidder states that it is: (check one)

1. A resident bidder _____
2. A nonresident bidder _____

Indicate state in which bidder resides: _____

CONSTRUCTION CONTRACTOR'S LICENSING

Oregon law requires all contractors to be licensed with the Oregon Construction Contractors Board in order to submit a Bid to do work and to do work as a contractor. The undersigned Bidder states it is now licensed with the Oregon Construction Contractors Board.

Indicate Bidder's Construction Contractors Board License No. _____.

Signature of Bidder

END OF SECTION



SCOPE OF SUPPLY FOR MCMINNVILLE WRF WASTEWATER TREATMENT PLANT
ULTRAVIOLET DISINFECTION EQUIPMENT – TROJAN SYSTEM UV3000Plus™

Prepared for: City of McMinnville

Project Name: McMinnville WRF

Consulting Engineer: Jacobs

Submitted by: Trojan Technologies

Trojan Quote: 217729

Design Criteria:

Current Peak Design Flow:	32 MGD
UV Transmission:	65 % minimum
Total Suspended Solids:	30 mg/l (30 Day Average, grab sample)
Discharge Limit:	126 E.Coli/100ml based on a 30 day geometric mean 406 E.Coli/100ml based on a daily maximum
Design Dose:	30 mJ/cm ²

We are pleased to submit the following scope of equipment based on the above criteria.

The purchaser is responsible for reading all information contained in this Supply Contract. Trojan will not be held accountable for the supply of equipment not specifically detailed in this document. Supplemental Terms and Conditions are attached to this document. Detailed installation instructions are provided with the shop drawings and are available earlier upon request. Changes to this Scope of Supply that affect selling price will be handled through a change order.

Please refer all inquiries to Trojan Manufacturer's Representative:

Phone: Mike Reilly
WM. H. REILLY & CO.
(503) 223-6197

This proposal has been respectfully submitted by,
Trojan Technologies

Jordon Fournier
Regional Manager
Trojan Technologies

Unless otherwise indicated in this proposal all conduit, conductors, local disconnects and transformers (if required) are the responsibility of the CONTRACTOR and are not included in this Scope of Supply.

ULTRAVIOLET MODULES

Trojan's Responsibility:

Each module supplied shall be completely assembled containing lamps, quartz sleeves and be electrically wired to each electronic ballast. Modules are shipped in a support rack and crated.

Model and Make:	Standard System UV3000Plus™
Quantity:	36 UV modules will be supplied each containing 8 Lamp - 4.0in spacing
Material of Construction:	316 stainless steel frame
Approximate Weight:	112 lbs / 51 kg per 8 Lamp module

SYSTEM CONTROL CENTER

Trojan's Responsibility:

One (1) System Control Center (SCC) shall be supplied to monitor and control the UV System. Trojan will provide a PLC I/O and soft address map to aid the Contractor with integration of the UV PLC and WWTP SCADA system. The UV SCC shall consist of the following:

Quantity Supplied	One (1) SCC will be supplied
Location:	Wall Mount
Controller Type:	CompactLogix L33R
Operator Interface:	AB Panelview Plus 7 (10") Indoor Rated
Panel UPS:	Yes
Material of Construction:	304 Stainless Steel - Type 4X (IP66)
Enclosure Rating:	Type 4X
Approximate Weight:	200 pounds

Installation Contractor's Responsibility:

The Installation Contractor to be responsible for mounting the SCC as indicated on the drawings. The Installation Contractor to be responsible for the supply, installation and connection of the following at the SCC:

1. One (1) 120V 60Hz power supply
2. One (1) 4 – 20 mA DC analog signal from plant flow meter
3. One (1) Ground Link , 14 gauge minimum type TWH stranded, daisy chained to the HSC and PDCs.
4. One (1) serial communication link consisting of one (1) shielded twisted pair, 18 gauge maximum from the HSC and other PDCs (daisy chained).
5. One (1) serial communication link consisting of one (1) twisted shielded pair, 18 gauge maximum from the On-Line UVT Monitor
6. Dedicated telephone line for remote monitoring modem
7. Serial communication link to SCADA – Ethernet/IP

POWER DISTRIBUTION CENTERS

Trojan's Responsibility:

The Power Distribution Center (PDC) distributes power to the UV Modules and shall consist of the following:

Quantity Supplied:	Total of Six (6) PDC(s) will be supplied
Material of Construction:	304 Stainless Steel - Type 4X (IP66)
Enclosure Rating:	Type 4X
Approximate Weight:	220 pounds (100 Kg) each

Installation Contractor's Responsibility:

The Installation Contractor to be responsible for setting in place and bolting the Power Distribution Centers to the top of channel. The Installation Contractor to be responsible for the supply, installation and connection of the following at the Power Distribution Center(s):

1. One (1) 480/277V 60Hz, 12.3 kVA power feed with local disconnect to each of 6 PDC(s)
2. One (1) Ground Link, 14 gauge minimum, TWH stranded single wire from the HSC.
3. One (1) communication link consisting of one (1) shielded twisted pair from the SCC and daisy chained to other PDC's.
4. One (1) pair of 12Volt DC, 18 gauge minimum discrete signal to the Water Level Sensor from PDC closest to the sensor.
5. One (1) pair of 24Volt DC, 18 gauge remote I/O to the HSC.
6. Connection of communication, power cables and hydraulic lines from the UV Modules

HYDRAULIC SYSTEM CENTER

Trojan's Responsibility:

The Hydraulic System Center (HSC) houses the ancillary equipment required to operate the quartz sleeve cleaning system.

Quantity Supplied:	One (1) HSC will be supplied
Materials of Construction:	304 Stainless Steel - Type 4X (IP66)
Enclosure Rating:	Type 4X
Approximate Weight:	300 Pounds

Installation Contractor's Responsibility:

The Installation Contractor to be responsible for setting in place and bolting the HSC and manifold as shown on the contract drawings. The HSC should be located within 50 feet (15 meters) from the farthest PDC. The Installation Contractor shall be responsible for the supply, connection and installation of the following at the HSC:

1. One (1) 480V 60Hz, 5 Amp power feed with local disconnect
2. One (1) ground link of, 14 gauge minimum, TWH stranded from the PDC(s).
3. Connection of the hydraulic hoses from PDC(s). Hoses and connections will be supplied by Trojan.
4. One (1) serial communication link of one (1) twisted, shielded pairs, 18 gauge maximum cable from the SCC and daisy chained to the PDC's.
5. One (1) pair, 18 gauge minimum, 24Volt DC remote I/O from the closest PDC.

SUPPORT RACKS

Trojan's Responsibility:

Support racks are provided to support UV modules in the effluent channel.

Quantity Supplied:	Six (6) racks will be supplied
Material of Construction:	304 Stainless Steel
Approximate Weight:	< 100 pounds each

Installation Contractor's Responsibility:

The Installation Contractor to be responsible for setting in place and bolting the support racks to the channel walls. The Contractor will be required to supply eight (8) 1/2" Diameter x 5 1/2" Long expansion anchor bolts per rack.

Install approved (engineered) anchor points for personnel to use as part of their fall restraint system around the open channels. The anchor points must be positioned so that the preferred retractable lifeline of 8 feet is of sufficient length to access the work at the channel. Refer to local safety regulation.

LEVEL CONTROLLER

Trojan's Responsibility

A level control device is required per channel to maintain and control the effluent level, regardless of flow rate.

Description:	ALC
Quantity Supplied:	Three (3) level controller(s)
Material of Construction:	304 stainless steel, lexan and galvanized steel weights
Approximate Weight:	TBD

Installation Contractor's Responsibility:

The Installation Contractor to be responsible for setting in place, grouting and sealing the level control device.

ON-LINE UV TRANSMISSION MONITOR

Trojan's Responsibility:

Description:	One (1) Hach UVT meter containing: One (1) submersible probe with multi-beam flash photometer, one (1) 50' cable between the probe and the controller, One (1) OptiQuant SAC UV-254 Analyzer Controller.
Enclosure Rating:	Type 4X
Controller Dimensions:	12 x 12 x 4 inches
Operating Temperature:	32 to 140°F (Probe), 14 to 122°F (Controller)
Approximate Weight:	30 pounds (includes Probe and Controller)
Probe Immersion Depth:	up to 6 feet

Installation Contractor's Responsibility:

The Installation Contractor to be responsible for setting in place and bolting the controller panel and the probe. The Installation Contractor shall also be responsible for the supply, installation and connection of the following:

1. One (1) 120 Volt, 1 phase, 2 wire (plus ground), 14 VA power supply
2. One (1) 4-20mA DC Analog communications link between the Controller and the SCC
3. Installation of sensor communication cable between Probe and Controller (Cable supplied by Trojan)
4. Supply of the required bolts for mounting Controller and Probe to the channel edge

WATER LEVEL SENSOR KIT

Trojan's Responsibility:

The water level sensor is located downstream of the UV System and provides a digital signal to shut down & protect the UV System if the water level is too low.

Quantity Supplied:	3 (type) water level sensor to be supplied
Enclosure Rating:	Type 4X
Approximate Weight:	10 pounds (panel)

Installation Contractor's Responsibility:

The Installation Contractor to be responsible for setting in place and bolting the water level sensor panel to the effluent channel wall. The Installation Contractor shall also be responsible for the supply of mounting hardware, watertight conduit and supply and connection of one discrete signal (pair of 12V DC, 14 gauge) from the water level sensor probe to each PDC.

SPARE PARTS AND SAFETY EQUIPMENT

Trojan's Responsibility:

The following spare parts and safety equipment will be supplied with the UV system:

29	UV lamps
29	Quartz sleeves
15	Ballasts
58	Wiper Seals
29	Lamp Holder Seals
4	UV Intensity Sensors
2	UV Face Shields
1	Spare Pure Drive Hydraulic Fluid
1	Operators Kit (including face shield, gloves and cleaning solution)

As per Section 409990 1.05A Instrumentation and Control spares

ADDITIONAL EQUIPMENT

A. INDIVIDUAL UV MODULE LIFTING SLING WITH FRAME (if applicable)

Trojan's Responsibility:

In order to remove individual modules, by mechanical means, a 2 rope sling with frame shall be supplied to interface with the existing overhead crane.

Quantity:	One (1) Sling Kit
Materials of Construction:	304 SST
Approximate Weight:	5 lbs/ 2.2 kgs

B. STILLING PLATE (UPSTREAM FLOW CONDITIONING)

Trojan's Responsibility:

In order to ensure flow distribution to the UV System stilling plates will be supplied for each channel. Please see layout drawing for headloss created and upstream water levels.

Material of Construction:	304 Stainless Steel
Approximate Weight:	120 lb each
Anchor Bolts Req'd:	8 - 3/8" dia x 4" long / Plate

Installation Contractor's Responsibility:

Contractor shall be responsible for mounting L-frames to channel walls.

C. CHANNEL REDUCTION BAFFLE

Trojan's Responsibility:

Reduction baffles are required to facilitate the future expansion of the UV system.

Quantity Supplied:	Three (3) reduction baffles to be supplied
Description:	Channel Reduction Baffles
Material of Construction:	304 stainless steel
Approximate Weight:	TBD

Installation Contractor's Responsibility:

The Installation Contractor to be responsible for setting in place, bolting, grouting and sealing the reduction baffles.

CLARIFICATION

Seismic Calculations included

DOCUMENTATION (SHOP DRAWINGS AND O & M MANUALS)

Trojan's Responsibility:

The following documentation will be supplied to the contractor by Trojan per the following schedule:

- 4 copies of submittal shop drawings 4-6 weeks after receipt of written purchase order.
- 4 copies of Trojan Standard O&M manuals at time of equipment delivery.

DELIVERY, START-UP AND TRAINING

Equipment shipped **10-12** weeks after approval of Shop Drawings.

Installation Contractor's Responsibility:

The Contractor is responsible for:

- Un loading of the components supplied by Trojan, storage of all components, if required in a clean dry environment
- Installing the equipment outlined in the scope of Supply in accordance with contract drawings, Trojan's shop drawings, instructions and installation checklist.
- Supplying all conduits and conductors and components per the sites state regulations and components indicated as supplied by others,
- Completing the Checklist and returned at least two (2) weeks prior to date requested for commissioning.

The following start-up services will be provided by Trojan-certified technicians:

- **Installation assistance as required by phone or fax.** Technical Assistance Center 1-866-388-0488 or tac@trojanuv.com
- **Onsite Installation Assistance – 3 Days**
- **Operational and Performance testing and certification of proper installation – 5 Days total (2 trips)**
 - If the Trojan's Certified Service Technician determines the Contractor work is not complete and the start-up cannot be completed in the allotted time a return visit will be scheduled at the Contractors expense.
- **Classroom and/or jobsite training for operations staff - 1 Day**
 - If trainees are not available a return visit will be scheduled at the Contractors expense.
- **5- Day Performance Testing Assistance – 2 Days**
- **Owners Service Support (within 12 months) – 4 Days total (2 trips)**

WARRANTY

Trojan's Responsibility:

Trojan Technologies will warrant the equipment and parts for 1 year from the date of Substantial Completion.

UV lamps are warranted for 12,000 hours, prorated after 9,000 hours.

UV ballasts are warranted for 5 years, prorated after 1 year.

Refer to attached Terms and Conditions for additional details.

MICROBIOLOGICAL PERFORMANCE TESTING

Trojan's Responsibility:

Trojan will supply a performance testing protocol to the Contractor to be forwarded to the Engineer for approval. Trojan will produce the final test report (based on data supplied by the independent lab) and will forward the final report to the Contractor.

Trojan will cover all associated on site costs for performance testing (independent lab services, bottles, shipment, etc.) and provide onsite support as details above.

Contractors Responsibility;

The Contractor to be responsible for completing the performance testing as per the testing protocol supplied by Trojan and approved by the Engineer.

SELLING PRICE **\$653,862**

PAYMENT TERMS

10% after approved submittal

85% upon delivery of equipment to site

5% upon equipment acceptance or 60 days after delivery (whichever occurs first)

Net 30 Days

If UV System Start-up is required within 30 days of shipment, Trojan requires 95% payment unless agreed upon in writing before authorizing system Start-up.

Freight included for all North American projects. Incoterms 2010

Selling price does not include any applicable duties or taxes.

TERMS AND CONDITIONS

Attached

City of McMinnville
Water Reclamation Facility
Tertiary Treatment and Disinfection Project
Project 2017-2

PreBid Meeting – Minutes
Thursday, October 18, 2018
2:00 PM

1. Introductions and Sign-In Sheet
2. Administrative Issues:
 - Project Team
 - Engineer's Construction Cost Estimate - \$2,600,000
 - Lump Sum Bids plus Additive Alternates
 - Turn in bids at: 231 NE 5th St, McMinnville, OR
 - Bids Due by: 2:00 PM on Thursday, November 1, 2018
 - Bid Opening: 2:00 PM on Thursday, November 1, 2018
 - First-Tier Subcontractor Disclosure Forms Due by: 4:00 PM on Thursday, November 1, 2018
 - Site visits may be requested with 2 days notice
 - Questions in writing
3. Overall Project Scope
 - UV
 - Equipment replacement
 - Electrical
 - Canopy and related structural
 - Filters
 - Equipment package
 - Mixer addition
 - Return Sludge Pump Station 1
 - Electrical
 - Tertiary Clarifier
 - Concrete and launder support repair
 - Additive Alternates
 - ATAD recoating
 - Tertiary Clarifier mechanisms recoating
4. UV and Filter Backwash Equipment Procurement
5. Project Schedule
 - Substantial Completion: 300 calendar days
 - Final Completion: 330 calendar days
 - Suggested construction sequencing and additional constraints (Section 01 31 13, Project Coordination)
6. Misc. Owner Issues
 - Contractor's temporary facilities and logistics
 - Plant hours of operation: 7:00 am – 5:00 pm
 - Coordination with plant staff

7. Contractors' Questions

- The following questions were asked during the question/answer portion of the meeting:
 - Question: The supplements to Section 01 12 10 refer to attached Terms and Conditions, which are not included. How do bidders obtain the Terms and Conditions?
 - Response: Please contact the local representative for Trojan and Parkson:
Bill Reilly
Wm. H. Reilly & Co
503-223-6197
bill@whreilly.com
 - Question: Are additional funds available if the Contractor's bids exceed the engineer's cost estimate?
 - Response: Please refer to Section 00 21 13, Instructions to Bidders.
- The following question was asked during the tour:
 - Where is the temporary PAA to be located and where is the PAA feed point?
 - Answer: Please see Addendum 1.

8. Tour

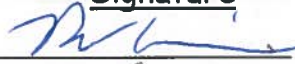








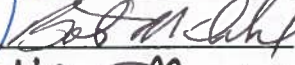





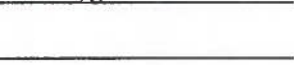

9. Adjourn at approximately 3:30 p.m.

City of McMinnville
McMinnville Water Reclamation Facility
Tertiary Treatment and Disinfection Project
Project 2017-2

Mandatory PreBid Meeting

Thursday, October 18, 2018
2:00 PM

Attendees:

<u>Printed Name</u>	<u>Company</u>	<u>Signature</u>
Del Bibler	Rib Excavating	
Mark Boerigheer	Boere construction	
RYAN COPPLE	FINE PAINTING	
MARK KLINE	JW FOWLER	
Bob Richardson	Tice Electric	
RICK ALLEN	TEAM ELECTRIC	
Vern Gardner	2KG Contractors Inc.	
DON LASKEY	LASKEY-CLIFTON CORP.	
DEAN IRWIN	TEK CONSTRUCTION	
Kevin Cox	STETTER SUPPLY	
BOB McDONALD	WILDISH BLDG CO	
Kelly Mahler	J Stellar Corp	
Bill Reilly	Wm H. Reilly & Co.	
STEVE BARCOCK	USWEST ELECTRIC	
CRAG BLANTON	FARBURTON WW	
Ross Mayer	R.L. Reimers Company	
PAT RANGLES	MCCLURE & SONS, INC	

City of McMinnville
Water Reclamation Facility
Tertiary Treatment and Disinfection
Project 2017-2
Bid Period Bidder Questions and Engineer Responses

October 23, 2018

Question 1: For the concrete repairs at the tertiary clarifiers, what quantity is required?

Response: Please refer to 54-SM-201 and Section 03 01 32, 3.01.

Question 2: Additive Alternate No. 2 calls for "Base Bid for Work" and "Interior Repairs". What is the intended scope of work for the "Base Bid for Work" versus that for "Interior Repairs"?

Response: Section 09 97 13 requires a complete recoating of the ATAD interior, which would be the work priced in "A. Base Bid for Work". The repair work is priced in "B. Interior Repairs". See Addendum 1.

Question 3: What is the manufacturer of the existing UV influent gates that will receive new stems and actuators?

Response: Whipps.

Question 4: "Dodge" has the project listed as a \$25M to \$50M project. Is this correct?

Response: No. The engineer's cost estimate is \$2.6M, as shown on the City of McMinnville's RFP website: <https://www.mcminnvilleoregon.gov/engineering/page/mcminnville-wrf-tertiary-treatment-and-disinfection-upgrade-project-2017-2>

Question 5: Are additional funds available if the Contractor's bids exceed the engineer's cost estimate?

Response: Please refer to Section 00 21 13, Instructions to Bidders.

Question 6: Where is the temporary PAA to be located and where is the PAA feed point?.

Response: The temporary PAA system location, power source, and dosing point shall be within 30-feet of the UV Facility and shall be coordinated with the Owner. See Addendum 1.

Question 7: The supplements to Section 01 12 10 refer to attached Terms and Conditions, which are not included. How do bidders obtain the Terms and Conditions?

Response: Please contact the local representative for Trojan and Parkson:
Bill Reilly
Wm. H. Reilly & Co
503-223-6197
bill@whreilly.com

END OF DOCUMENT