



## **City of Sweet Home**

**Request for Proposals**  
for  
**SWEET HOME WATER TREATMENT PLANT  
FINISHED WATER AND BACKWASH  
PUMPING SYSTEMS IMPROVEMENT**  
Addendum No. 1

**December 2021**



**ADDENDUM NO. 1  
TO  
Request for Proposals  
FOR  
SWEET HOME WATER TREATMENT PLANT FINISHED WATER AND BACKWASH PUMPING  
SYSTEMS IMPROVEMENT  
December 8, 2021**

To: All Plan holders

The following clarifications for changes, additions and/or deletions are hereby made a part of the Request for Proposal of the above referenced project. Bidders shall acknowledge receipt of this Addendum in the Proposal. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 5 pages, including the cover page. Does not include attachments page count.

<b>ATTACHMENTS</b>	<b>No. of Pages</b>
Revised Drawings	2
Additional Specification Section 15117	4
Recent Backwash Trendlines	3
Pre-Bid Meeting Sign in Sheets	2

**CHANGES AND ADDITIONS AND/OR DELETIONS TO THE SPECIFICATIONS**

**1. Section 01110 – Part 1.04.B:**

**DELETE**

“TAG Shall furnish and install new finished water and backwash pump VFDs, new MCC section and starter, new active harmonic filters, new control panel and new circuit breakers in MCCs as Owner-supplied equipment with disconnection, cabling, conductors installation by the Contractor.”

**REPLACE with:**

“TAG shall furnish and install the following: (3) Influent VFDs and (2) Harmonic filter feeder buckets. The Electrical contractor shall install the Owner provided PLC Panel, MCC Section with Backwash Soft Start, (2) Active Harmonic Filters and all wiring including Ethernet Cabling to the New PLC.”

**2. Section 01140 – Part 3.02.A.5:**

**DELETE**

“b. Stoppage events shall occur between the hours of 10:00 PM and 5:00 AM.”

**REPLACE** with:

“b. Stoppage events shall occur between the hours of 8:00 AM and 4:00 PM.”

**3.** Section 11060 – Part 2.03.D

**DELETE** Type 1 – RTDs column. Resistance Temperature Detectors (RTDs) not required.

**4.** Section 11060 – Part 2.05.D.2:

**DELETE** sub-paragraphs b. and c. Resistance Temperature Detectors (RTDs) not required.

**5.** Section 11060 – Part 2.05.L

**DELETE** paragraph. Space Heaters not required.

**6.** Section 15110 – Part 2.03.D.2

**DELETE**

2. Power actuator shall be provided with four configurable indication contacts configured to indicate the following:

**REPLACE** with:

2. Provide Ethernet/IP control Communications card in valve for all status and control. Power actuator shall be provided with four configurable indication contacts configured to indicate the following:

**7.** Section 15117

**ADD** New Specification Section 15117 – Air Release and Vacuum Valves to contract documents.

**CHANGES AND ADDITIONS AND/OR DELETIONS TO THE DRAWINGS**

**1.** Drawing M601 & M602 – See Attachment

**REPLACE** drawing M601 & M602 with the attached updated drawings.

**RESPONSES TO BIDDER QUESTIONS**

**1.** “What is the scale for E601 & E602?”

**Response:** The scale for drawing E601 is  $1/8" = 1'-0"$ , and the scale for drawing E602:  $1/2" = 1'-0"$ .

2. The 16" Tee has the 90 rotated  $11 \frac{1}{4}$  degrees from horizontal according to plan sheet M601. The bolt holes on 16" flanges are  $22 \frac{1}{2}$  degrees apart. Can this be rotated  $22 \frac{1}{2}$  degrees? The tee and 90 are too close together to have a ductile spool so a filler flange will be needed, and the bolts will pass through. Can the pump base be at a higher elevation to accommodate the  $22 \frac{1}{2}$  elbow maybe?

**Response:** See attached and updated drawings M601 and M602 for design modifications to address this question. The bend is now shown as rotated 22.5 degrees with the pump pad raised and pump column lengthened slightly.

**3. *Is there a specification for the air valve shown on M601 & M602?***

**Response:** Please see new Specification 15117 attached to this addendum.

**4. *How often do they backwash?***

**Response:** Each filter is backwashed approximately two (2) times per day. Recent trendlines are attached for reference.

**5. *Where does the electrical come from for the pump?***

**Response:** The power for the pumps comes from the WTP electrical room toured during the pre-bid meeting. See the WTP record drawings and contract documents for more information for electrical service at the finished water and backwash pump location.

**6. *Who provides and pays for the VFDs and integration?***

**Response:** The City intends to award a contract for the project to a single prime contractor. A portion of the work will be completed by the City's Integrator-of-Record as noted in Specification Section 01110.

**7. *Have divers ever been in the clear well?***

**Response:** The previous third-party operations contractor completed a dive inspection of the clearwell approximately 2 years ago. The City does not have a copy of the inspection report.

**8. *Will divers be needed for installation of pump?***

**Response:** The means and methods for completion of the project shall be determined by the Contractor.

**9. *How long can the clear well be lowered?***

**Response:** See Specification Section 01140.

**10. *Can the clear well be lowered? If so, how far?***

**Response:** See Specification Section 01140.

**11. *Is there a work sequence laid out for drilling the penetration for the pump?***

**Response:** See Specification Section 01140.

**12. *Does the quote for electrical work go directly to you guys or to the mechanical contractors that are bidding the job?***

**Response:** The City intends to award a contract for the project to a single prime contractor. A portion of the work will be completed by the City's Integrator-of-Record as noted in Specification Section 01110.

**13.** *We are hoping to get some clarification on section 15110 - 2.05. It appears that this is a pump control valve and not just a standard pressure reducing valve. Can you please advise who we should reach out to for clarification?*

**Response:** The purpose of the valve in question is to regulate the system pressures to match existing system pressure during backwash cycle. The new backwash pump will also be operated with a Variable Frequency Drive.

**14.** *Clarification on the draining of the clear well.*

**Response:** See Specification Section 01140.

**15.** *Can you clarify how long the WTP clearwell can be out of service for installation of the new backwash pump?*

**Response:** See Specification Section 01140 for requirements related to accessing the clearwell for installation of the new backwash pump.

**16.** *How deep is the clearwell?*

**Response:** The existing clearwell depth is shown in Section X on Sheet M602 and also in the WTP record drawings.

**17.** *Could you find out who the divers were who most recently did work on Sweet home's WTP?*

**Response:** The previous third-party operations contractor completed a dive inspection of the clearwell approximately 2 years ago. The City does not have contact information for the company that provided that service.

End of Addendum No. 1





## SECTION 15117

### AIR RELEASE AND VACUUM VALVES

#### PART 1 - GENERAL

##### 1.01 SECTION INCLUDES

- A. Air Release Valves (ARV), Air/Vacuum Valves (AVV) and Combination Air Valves (CAV or AVRV).

##### 1.02 REFERENCED SECTIONS

- A. The following Section is referenced in this Section.
  - 1. Section 01330 – Submittals

##### 1.03 SUBMITTALS

- A. Comply with Section 01330
- B. Provide the following, at a minimum:
  - 1. A summary sheet for each type of valve including the size and orifice diameter for each
  - 2. Product data sheets for each type of valve
  - 3. Product data sheets for the coating material.

##### 1.04 DEFINITIONS

- A. Air Release Valves (ARV): A small venting orifice to vent the accumulated air and other gases within a pressurized pipeline.
- B. Air/Vacuum Valves (AVV): Includes large venting orifices to permit the release of air as the line is being filled and to relieve vacuum as the line is drained or under negative pressure. Valve does not release air once the pipeline is pressurized.
- C. Combination Air Valve (CAV or AVR): Includes a small venting orifice to vent the accumulation of air and other gases with the line or system under pressure, a large venting orifice to permit the release of air as the line is being filled, and vacuum relief as the line is drained or under negative pressure. Includes both single- and dual-body construction.

#### PART 2 - PRODUCTS

##### 2.01 GENERAL

- A. Provide valves with the inlet and orifice sizes indicated. If the orifice sizes are not indicated, propose an orifice size suitable for the proposed operating conditions for each valve as part of the submittal.



- B. Operating pressures: 150 psi. minimum. Provide valves with higher pressure ratings where indicated.
- C. Provide valves of the type, and size, and in the location indicated

## 2.02 MATERIALS

- A. Provide valves of the type, and size, and in the location indicated
- B. Air Valve Materials:
  - 1. Body, cover: Cast iron, ASTM A126, Grade B, or ASTM A48, Class 35
  - 2. Float: Stainless steel, ASTM A240, Type 316
  - 3. Seat: Buna-N, EPDM or Type 316 stainless steel
  - 4. Lever mechanism: Stainless steel, ASTM A240, Type 316
  - 5. Trim: Stainless steel, ASTM A240, Type 316
- C. Seat washers and gaskets: Designed to provide drop tight shutoff when valves are closed.
- D. Finish: Two-part epoxy or Fusion Bonded Epoxy; minimum 12 mils thick.

## 2.03 AIR RELEASE VALVES

- A. Non-potable water service:
  - 1. Compound lever valves for valves with inlets one inch and larger, simple lever for valves smaller than one inch.
  - 2. Manufacturers:
    - a. APCO Series 400 or 450
    - b. Valmatic Models 48A through 49A
    - c. or equal

## 2.04 AIR/ VACUUM VALVES

- A. Non-potable water service:
  - 1. Provide discharge protector hoods of the mushroom type unless otherwise shown.
  - 2. Connections for valves 3-inch and larger: Flanged inlets.
  - 3. Where an anti-slam or slow-closing valve is indicated:
    - a. Provide an anti-slam, poppet-type valve disc that allows air to pass but provides a regulated closure during passage of water.
    - b. Manufacturers:
      - 1) APCO Series 401
      - 2) Valmatic Models 301A through 308
      - 3) Or equal

## 2.05 COMBINATION AIR VALVES

- A. One and Two Inch:
  - 1. Type: Single body
  - 2. Inlet/Outlet: NPT
  - 3. Manf./Model:
    - a. APCO 143C or 145C
    - b. Valmatic 201C or 202C
    - c. Crispen C Series
    - d. Or equal
- B. Three Inch:
  - 1. Type: Single body
  - 2. Inlet/Outlet: Flanged unless otherwise indicated
  - 3. Manf./Model:
    - a. APCO 147C
    - b. Valmatic 203C
    - c. Crispen C Series
    - d. Or equal
  - 4. Four Inch:
    - 5. Type: Dual body
    - 6. Inlet/Outlet: Flanged
    - 7. Manf./Model:
      - a. APCO 1800 Series
      - b. Valmatic 100Series
      - c. Crispen AL/PL Series
      - d. Or equal

## PART 3 - EXECUTION

### 3.01 INSTALLATION

- A. Install per manufacturer's written instructions and as indicated on the Drawings and specified.

### 3.02 TESTING

- A. Valves shall be manufactured and tested in accordance with American Water Works Association Standard C512
- B. Following installation, test each valve as part of the pipeline the valve is attached to demonstrate the intended operation and zero leakage when closed.

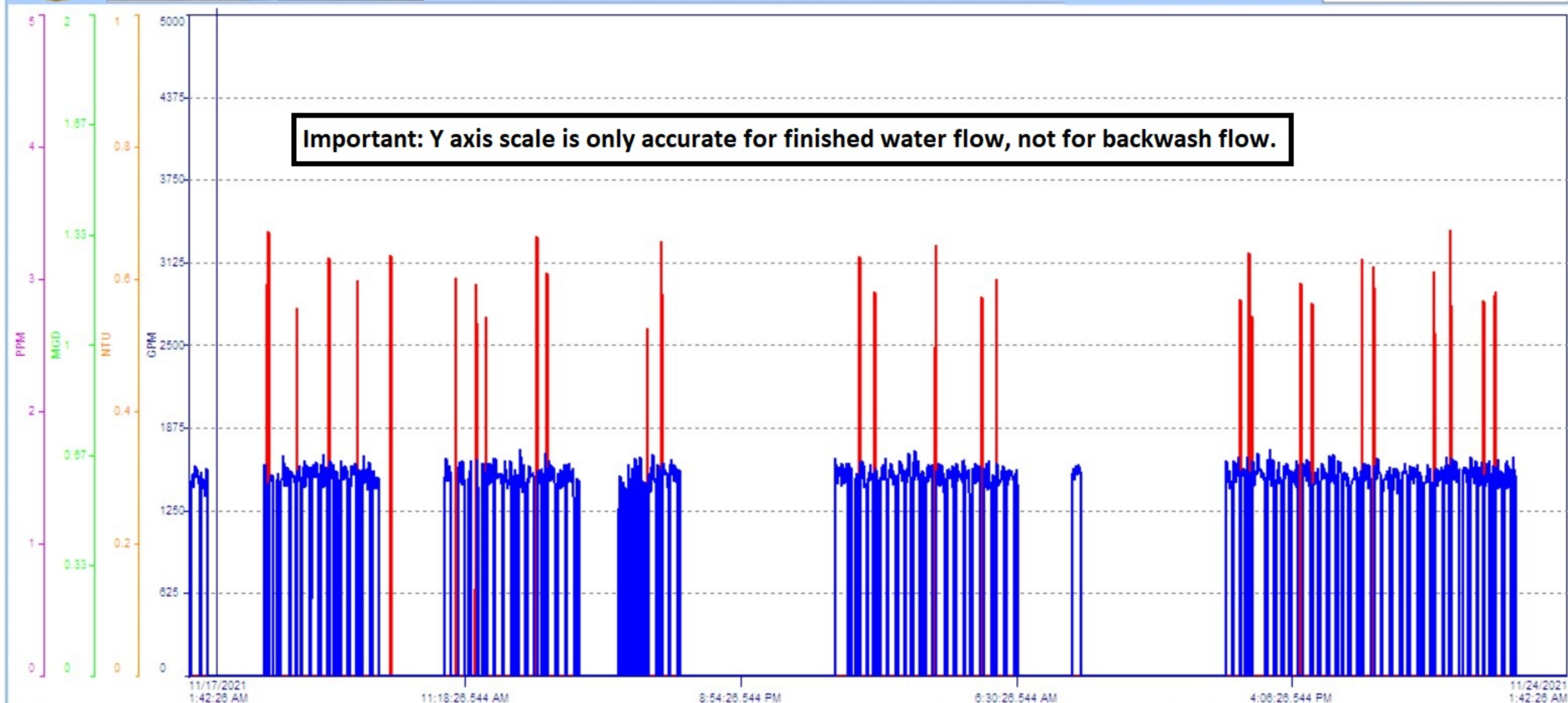
**END OF SECTION**



# Welcome to the City of Sweet Home, Oregon Water Treatment Plant

12/08/2021 09:43:08

**Important: Y axis scale is only accurate for finished water flow, not for backwash flow.**



Line ID	Description	Current Value	Slider Value	Slider Value Time	2nd Slider Value	2nd Slider Value Time
CP601.FIT401.SCALED	FINISHED WATER FORWARD FLOW	1538	0	5:10:00.017212 A0	5:10:00.017212 AM	5:10:00.017212 AM
CP601.FIT401.REVERSE_FLOW	FINISHED WATER REVERSE FLOW	0	0	5:10:00.017212 A0	5:10:00.017212 AM	5:10:00.017212 AM

Scroll Left (%) 
 Scroll Right (%)

[Chart Default Attribute Settings](#)

Start Time (Entry must be in " " example - "July 4 10:00 AM" )

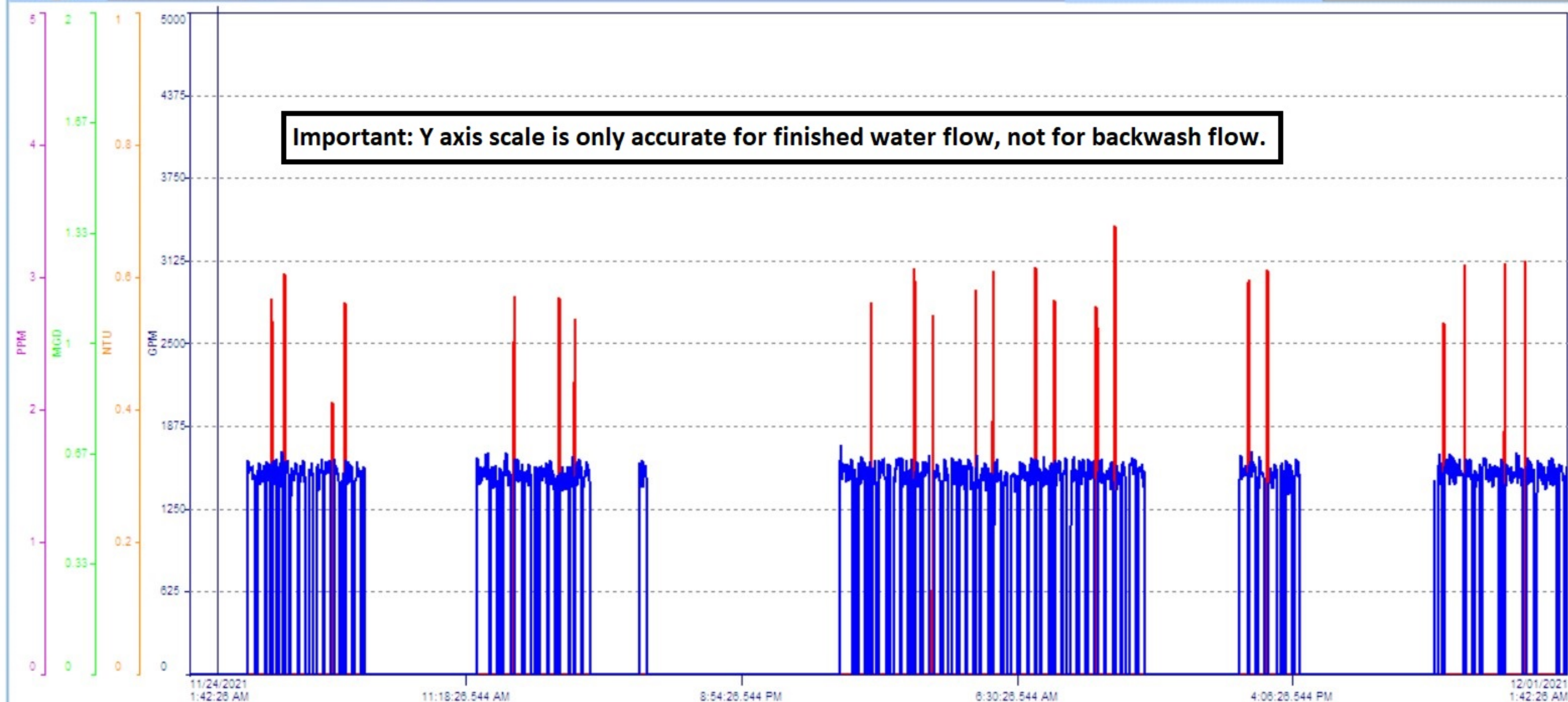
Chart Duration (Hours) 
 Chart Duration (Days)



# Welcome to the City of Sweet Home, Oregon Water Treatment Plant

12/08/2021 09:42:21

**Important: Y axis scale is only accurate for finished water flow, not for backwash flow.**



Line ID	Description	Current Value	Slider Value	Slider Value Time	2nd Slider Value	2nd Slider Value Time
CP601.FIT401.SCALED	FINISHED WATER FORWARD FLOW	1542	0	5:10:00.006759 A0	5:10:00.006759 AM	5:10:00.006759 AM
CP601.FIT401.REVERSE_FLOW	FINISHED WATER REVERSE FLOW	0	0	5:10:00.006759 A0	5:10:00.006759 AM	5:10:00.006759 AM

Scroll Left (%) 
 Scroll Right (%)

[Chart Default Attribute Settings](#)

Start Time (Entry must be in " )  
 example - "July 4 10:00 AM"

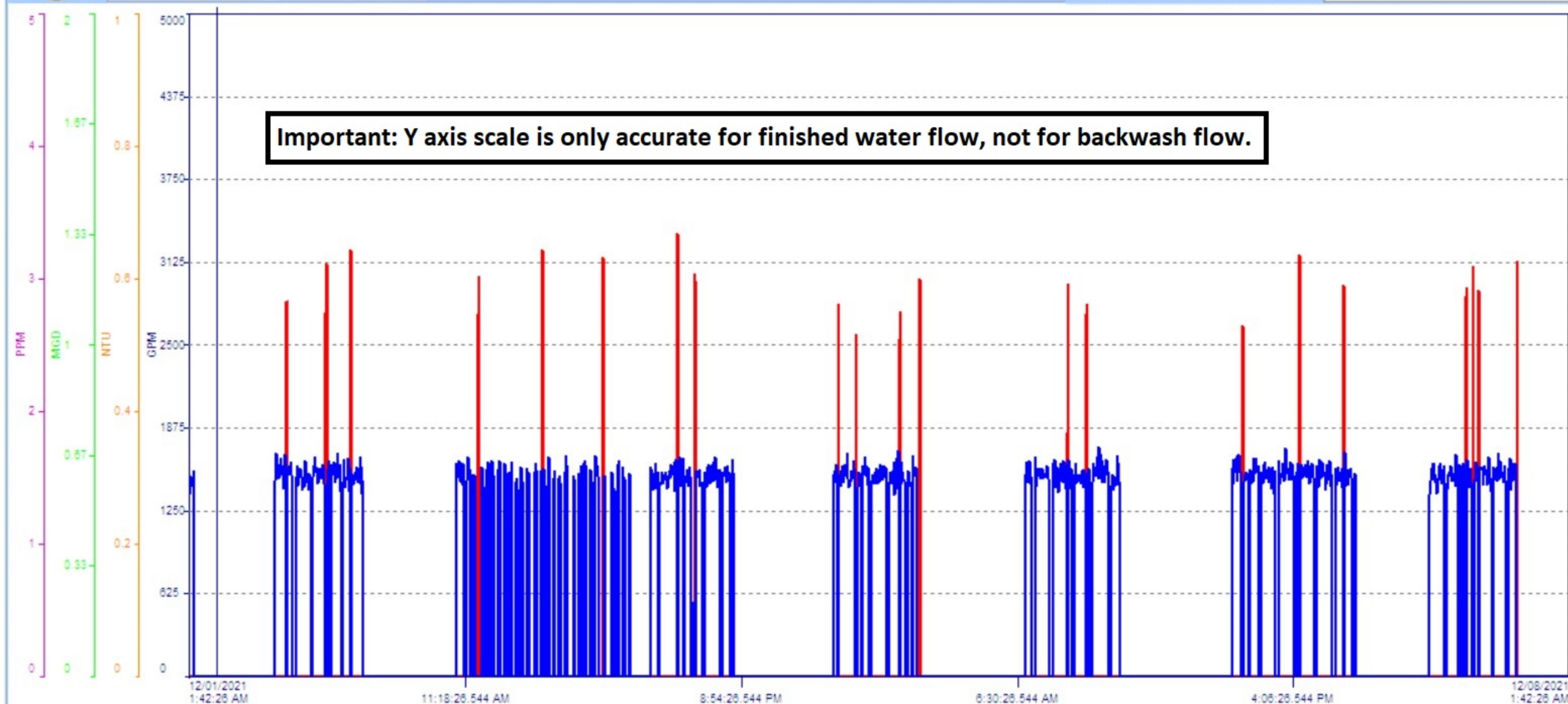
Chart Duration (Hours)   
 Chart Duration (Days)



# Welcome to the City of Sweet Home, Oregon Water Treatment Plant

12/08/2021 09:41:21

**Important: Y axis scale is only accurate for finished water flow, not for backwash flow.**



Line ID	Description	Current Value	Slider Value	Slider Value Time	2nd Slider Value	2nd Slider Value Time
CP601.FIT401.SCALED	FINISHED WATER FORWARD FLOW	1549	0	5:10:00.007626 AM	5:10:00.007626 AM	5:10:00.007626 AM
CP601.FIT401.REVERSE_FLOW	FINISHED WATER REVERSE FLOW	0	0	5:10:00.007626 AM	5:10:00.007626 AM	5:10:00.007626 AM

Scroll Left (%) 
 Scroll Right (%)

[Chart Default Attribute Settings](#)

Start Time (Entry must be in " " example - "July 4 10:00 AM")

Chart Duration (Hours) 
 Chart Duration (Days)

**CITY OF SWEET HOME**  
**Water Treatment Plant Finished Water and Backwash Pumping Systems Improvements**  
 Bid opening 12-14-2021

Project staff:	Steven Haney, Utilities Manager	City of Sweet Home	541-730-1845	<a href="mailto:shaney@sweethomeor.gov">shaney@sweethomeor.gov</a>
	Trish Rice, Engineering Tech II	City of Sweet Home	541-936-2310	<a href="mailto:price@sweethomeor.gov">price@sweethomeor.gov</a>
	Ruby Lang, Engineer	West Yost Associates	541-431-1280	<a href="mailto:rlang@westyost.com">rlang@westyost.com</a>

Mandatory Pre-Bid Meeting sign-in sheet 12-2-2021. All Bidders **MUST** sign in below:

Employee Name	Company Name	Phone	Email
PAT RYAN	TORNADO SOFT EXCAVATION	503-932-1868	pat@tseconstruction.com
Caleb Cleverger	BL Reimers Co	503 508 9544	caleb@reimers.com
CODY TIMMINS	GBC CONSTRUCTION	541-230-0448	cody@gbccnstruct.com
ALEX KING	WILDISH	541-277-7755	ESTIMATOR@WILDISH.COM
Tim Boedighermer	Boede Construction	503-510-5561	TimBoede@AOL.com
Nathan Swen	Pacific Excavation	541-510-5422	Nswen@pacificexc.com
JJ MACEDO	DSC BUILDERS	503-303-0202	JJM@DSC-BUILDERS.COM
Robert Smith	Pump tech	503-730-7187	rsmith@pumptechnw.com

**CITY OF SWEET HOME**  
**Water Treatment Plant Finished Water and Backwash Pumping Systems Improvements**  
**Bid opening 12-14-2021**

Project staff:	Steven Haney, Utilities Manager	City of Sweet Home	541-730-1845	<a href="mailto:shaney@sweethomeor.gov">shaney@sweethomeor.gov</a>
	Trish Rice, Engineering Tech II	City of Sweet Home	541-936-2310	<a href="mailto:price@sweethomeor.gov">price@sweethomeor.gov</a>
	Ruby Lang, Engineer	West Yost Associates	541-431-1280	<a href="mailto:rlang@westyost.com">rlang@westyost.com</a>

Mandatory Pre-Bid Meeting sign-in sheet 12-2-2021. All Bidders MUST sign in below:

Employee Name	Company Name	Phone	Email
Megan Horvath	Laskey-Clifton Corp.	541-271-2213	estimating@laskeyclifton.com
Don Laskey	Laskey-Clifton Corp.	" "	" "
Jeff McLain	Jet Industries Ele. Div.	971-600-8850	jeff.m@jetindustries.net
Jason Jarwin	Stettler Supply & Construction	503-510-5127	Bids@stettlersupply.com
CARIS DUNMIRE	THE SAUNDERS COMPANY	503-551-0968	chrisd@thesaunderscompany.net