

Watermark Engineering

PATRICK STIEHR

DELTA MEASUREMENT EXPERIMENTATION CONSORTIUM
MARCH 27, 2019



"DANTE" WEIR
4' CIPOLLETTI

Weir $\frac{1}{7}$



Watermark Engineering
Patrick Stichter PE
916.774.1111

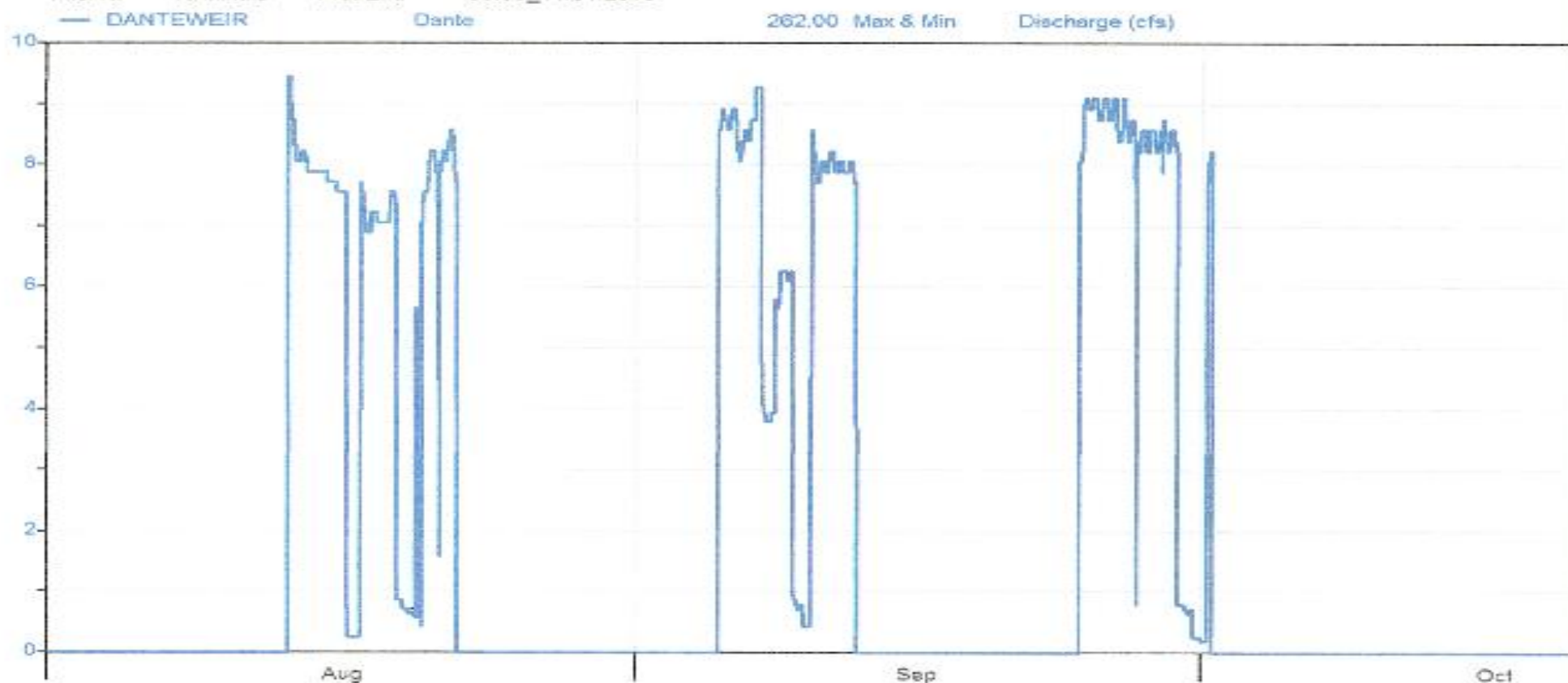
WEI

weir ^{2/7}

Watermark Engineering

DAILY FLOW

Period 3 Month Plot Start 00:00_08/01/2018
Interval 15 Minute Plot End 00:00_11/01/2018



15 min data points
ACRO DATA LOGGER
STD FLOAT / TAPE & ENCORDER
HOUSED IN SHELTER & STILLING WELL.

WEI

Pressure Sensor in
Siphon at Weir 3/7

FTS 360

Unsaved Configuration

Ungrouped Stations

92780-Dante Weir
92701-Dante Mace
DNR-Boulder-92775
TNC-92778

92780-Dante Weir

All Sensors

Station is Active

Edit Station

Data

Stage

Data Point

Units

From Date:

To Date:

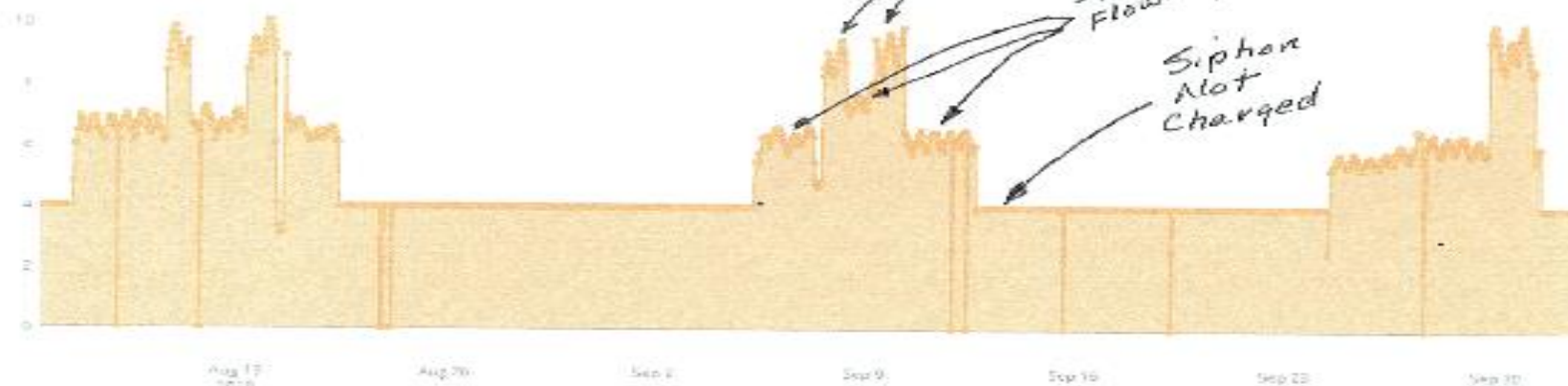
Latest Update: Oct 23, 2018 10:00 AM

Stage 1

V

Aug 12, 2018 12:21 -0700

Oct 2, 2018 18:21 -0700



4/7

River Water Level at
Boat Dock nr Siphon / Weir

&LetHead &AuxLabel

Period 50 Day 08/13/2018 to 10/02/2018

&Signature

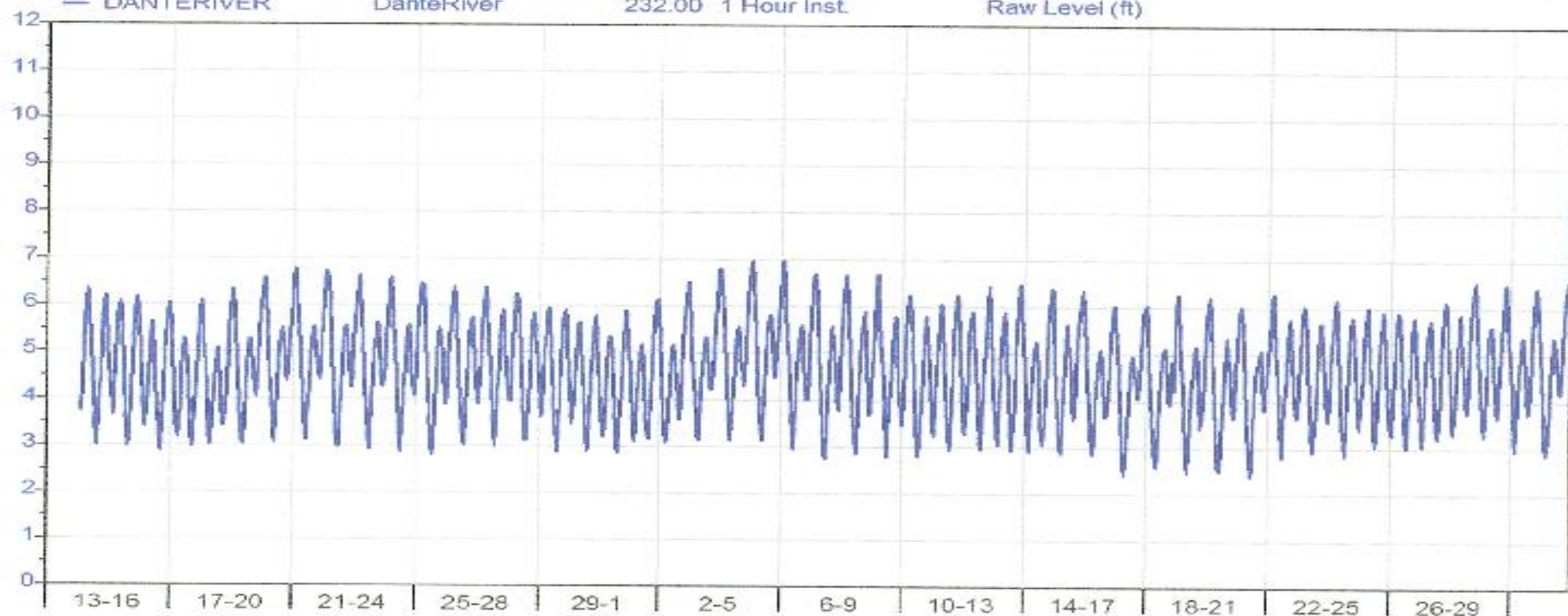
2018

— DANTERIVER

DanteRiver

232.00 1 Hour Inst.

Raw Level (ft)



HOURLY DATA SENT TO AT&T CLOUD
VIA AT&T CELLULAR

WEI

&LetHead &AuxLabel

Plots of River & Pressure Sensor

&Signature

Period 10 Day 08/13/2018 to 08/23/2018

— DANTEPS

PS-Dante

232.00

1 Hour Max & Min

Raw Level (ft)

— DANTERIVER

DanteRiver

232.00

1 Hour Max & Min

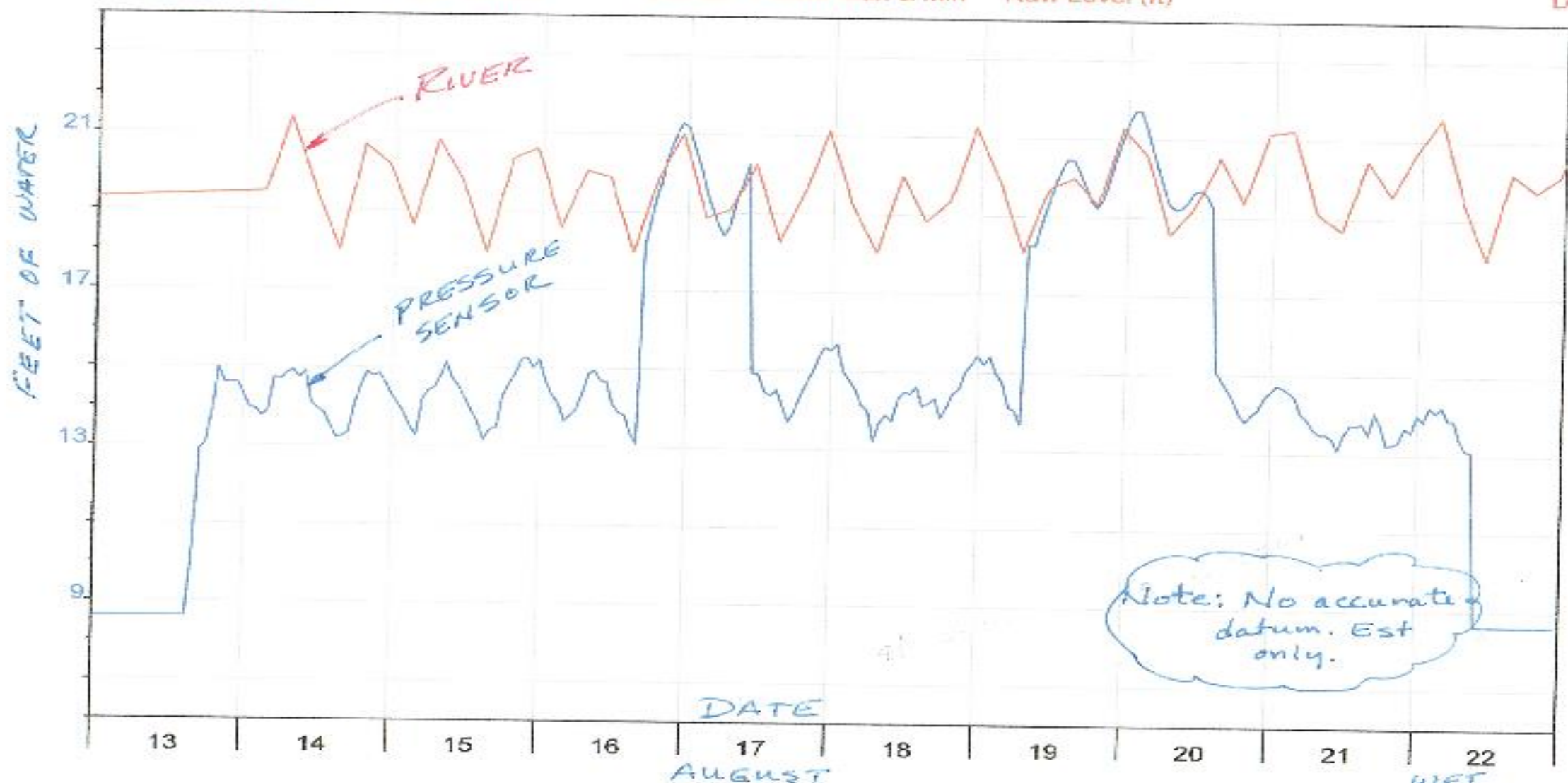
Raw Level (ft)

5/7

2018

B

D



6/7

&LetHead &AuxLabel

Period 8 Day 09/24/2018 to 10/02/2018

— DANTEWEIR

Dante

262.00 1 Hour Inst.

Discharge (cfs)

— HDDIF

HdDif

262.00 1 Hour Inst.

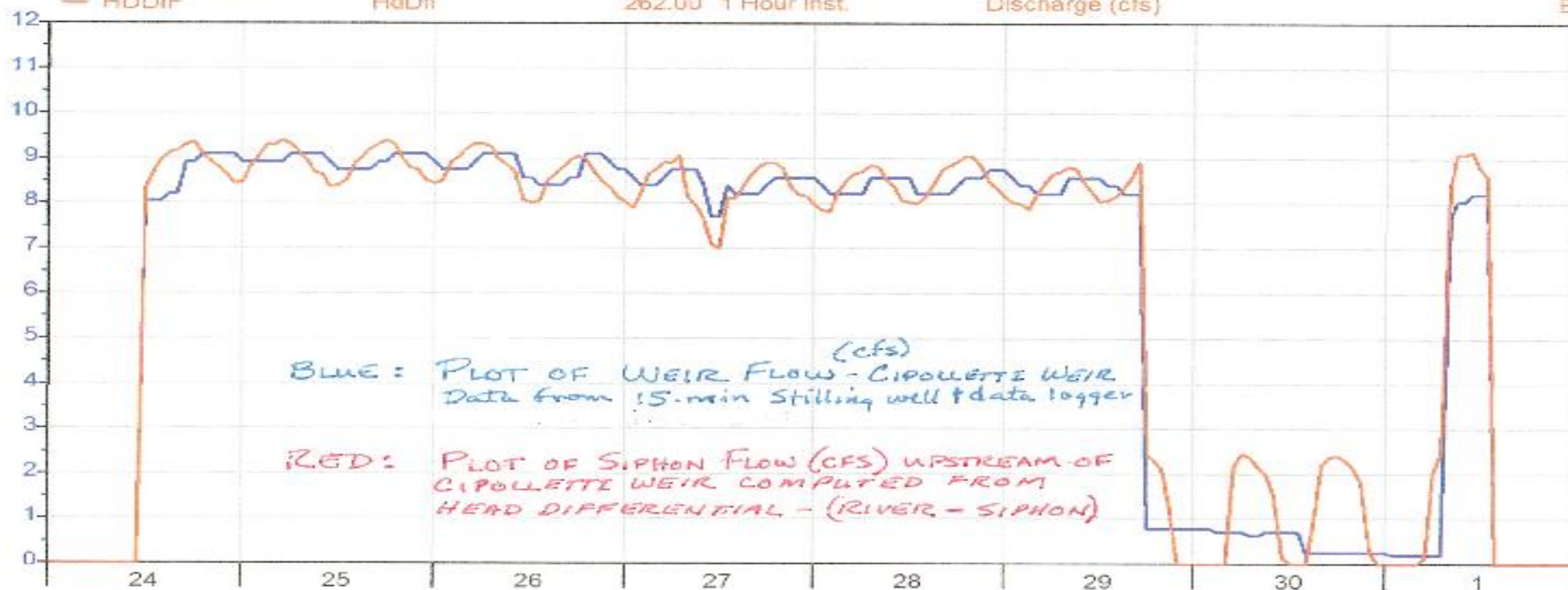
Discharge (cfs)

Signature

2018

A

B



WEI

7/7 7/7 SS greent 2018 A B PLOTS OF WEIR FLOW (cfs) & SIPHON FLOW (cfs) FOR

&LetHead &AuxLabel

Period 50 Day 08/13/2018 to 10/02/2018

— DANTEWEIR

Dante

262.00 1 Hour Inst.

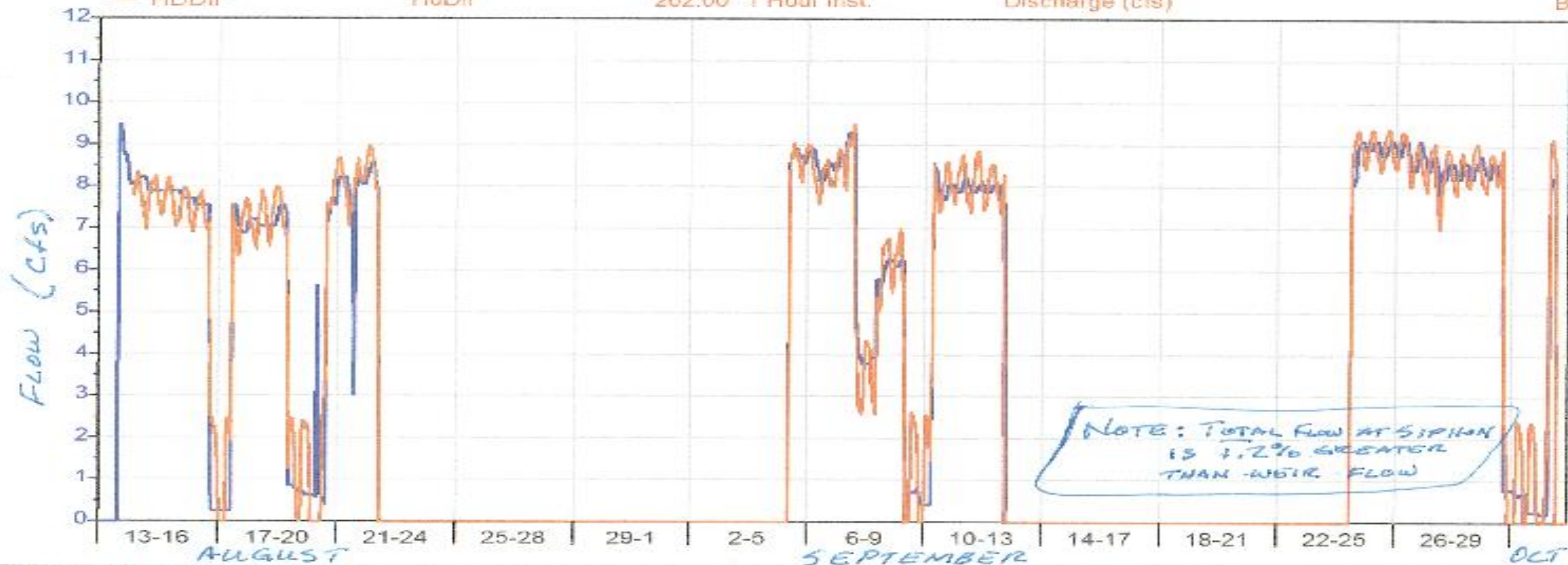
Discharge (cfs)

— HDDIF

HdDif

262.00 1 Hour Inst.

Discharge (cfs)





Thank You

Watermark Engineering
Patrick Stiehr
pstiehr@wtrmark.com