

Welcome!

**Mustang Valley WSC
Annual Corporate
Meeting**

April 10, 2023



Mustang Valley

Water Supply Corporation



Agenda

Welcome

Introduction: Directors & Staff

Approval of 2022 Minutes

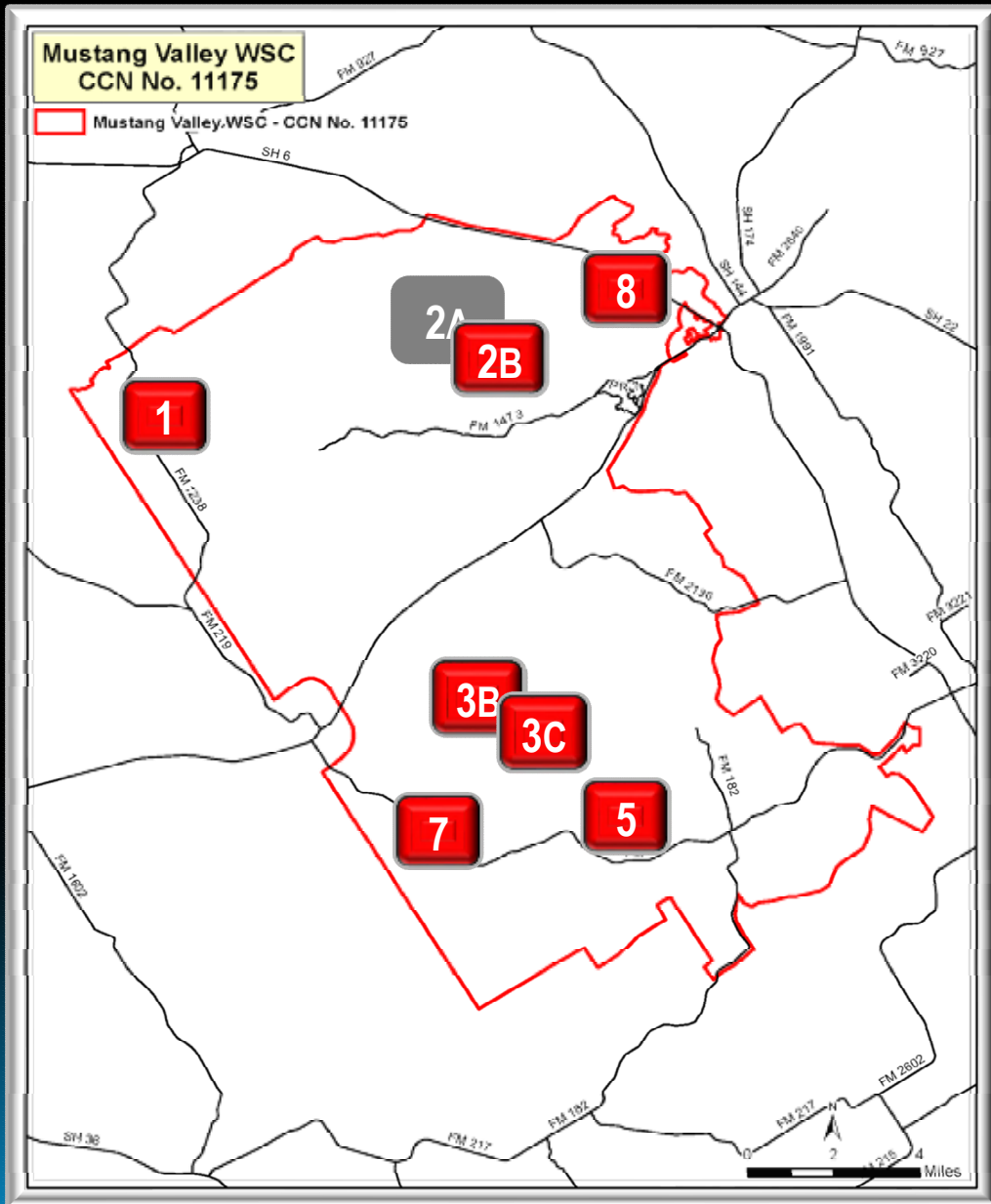
Election Results

Presentation

- **MVWSC SYSTEM**
- **2022 FINANCIALS**
- **2022 LOOKING BACK**
- **2023 MOVING FORWARD**

Open Discussion

The System 2022



- ❖ **Approx. 250 miles of pipe**
- ❖ **852 Total Meters**
 - 820 Active**
 - 18 Added in 2022**
 - 32 Locked/Closed**
- ❖ **Avg. Water Loss – 30%**
- ❖ **Usage**
- ❖ **Average User**
 - 7,470 gal/month**
- ❖ **Highest Avg. User**
 - 106,650 gal/month**

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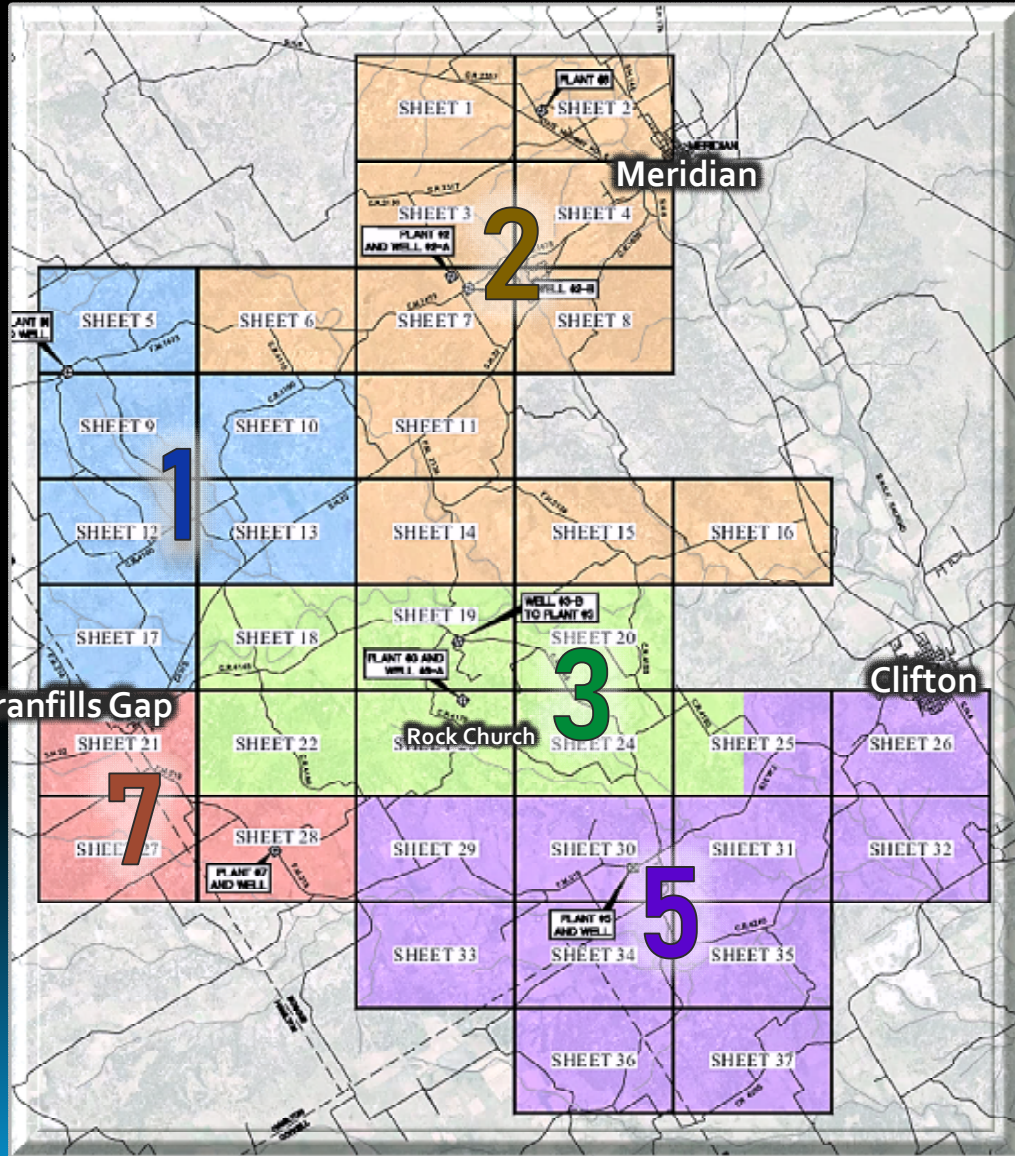
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Your Well. Your Route.

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CUSTOMER		DUE DATE	
ROUTE	ACCOUNT		
TOTAL DUE UPON RECEIPT		AMOUNT DUE AFTER DUE DATE	
MAIL THIS STUB WITH YOUR PAYMENT			

Well	Meter Count	Yearly Usage	Avg Mo Usage
1	106	7,195,988	5,657
2A	77	3,315,885	3,589
2B	243	28,855,301	9,896
3	191	14,342,438	6,258
5	193	18,983,401	8,197
7	42	3,677,537	7,297
Totals	852	76,370,550	
Average Monthly Usage per Meter for Entire System			7,470

Financials

\$	2022	2021	2020	2019	2018
Water Sales	704,813	644,766	636,044	577,033	577,139
Total Revenue	746,821	684,320	692,428	612,575	618,808
Operating Exp	612,538	570,623	488,379	448,325	490,971
Net Income	134,283	113,697	204,049	164,250	127,837
Cash Reserves	465,390	571,628	532,831	361,986	294,742
Total Debt	1,207,526	1,244,934	1,280,467	1,320,281	1,335,635

Payment Options

Choice #1 –

Direct Pay at MVWSC
by cash, check or
money order



Choice #2 –

Use Your Bank's Online Bill
Payment System



Choice #3 –

(877)885-7968
Payment Service Network



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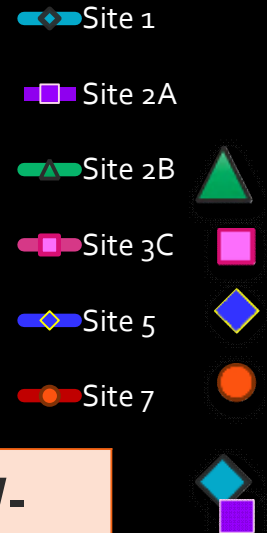
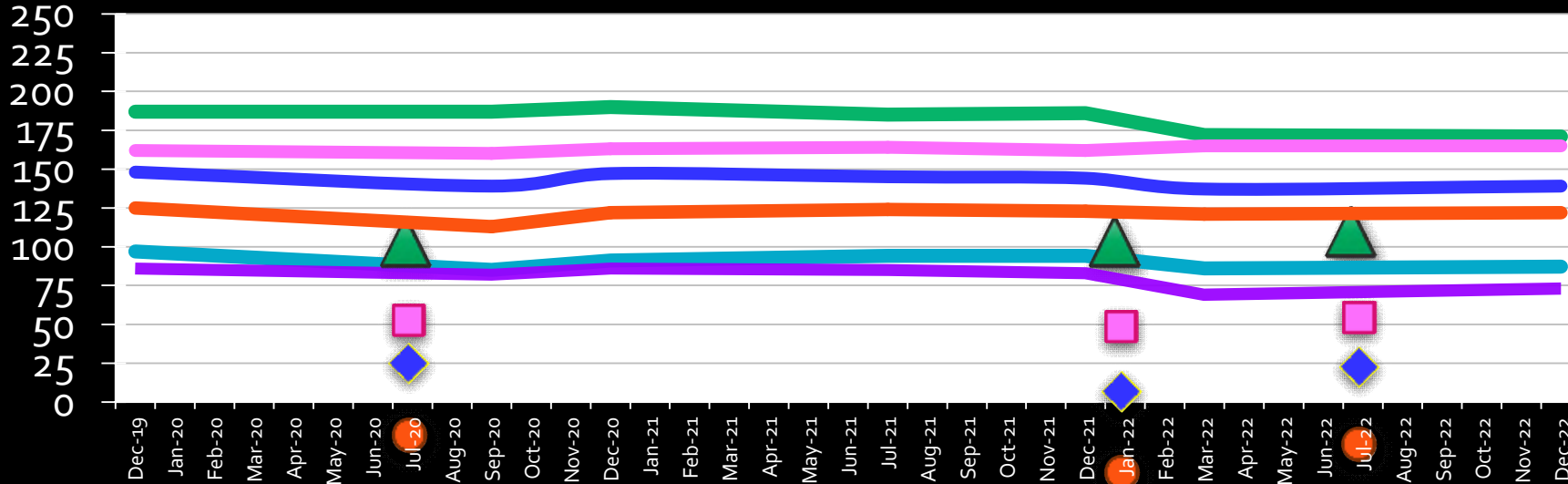
Static Levels

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Water Depth
above pump



	Dec-19	Sep-20	Dec-20	Jul-21	Dec-21	Mar-22	Dec-22	+/-
Site 1	97	85	91	94	94	86	87	<10>
Site 2A	86	82	86	85	83	69	73	<13>
Site 2B	187	187	190	185	186	172	171	<16>
Site 3C	162	160	163	164	162	165	165	3
Site 5	148	139	147	145	144	137	139	<9>
Site 7	125	113	122	124	123	121	122	<3>



Pumped vs. Sold:

120,000,000

100,000,000

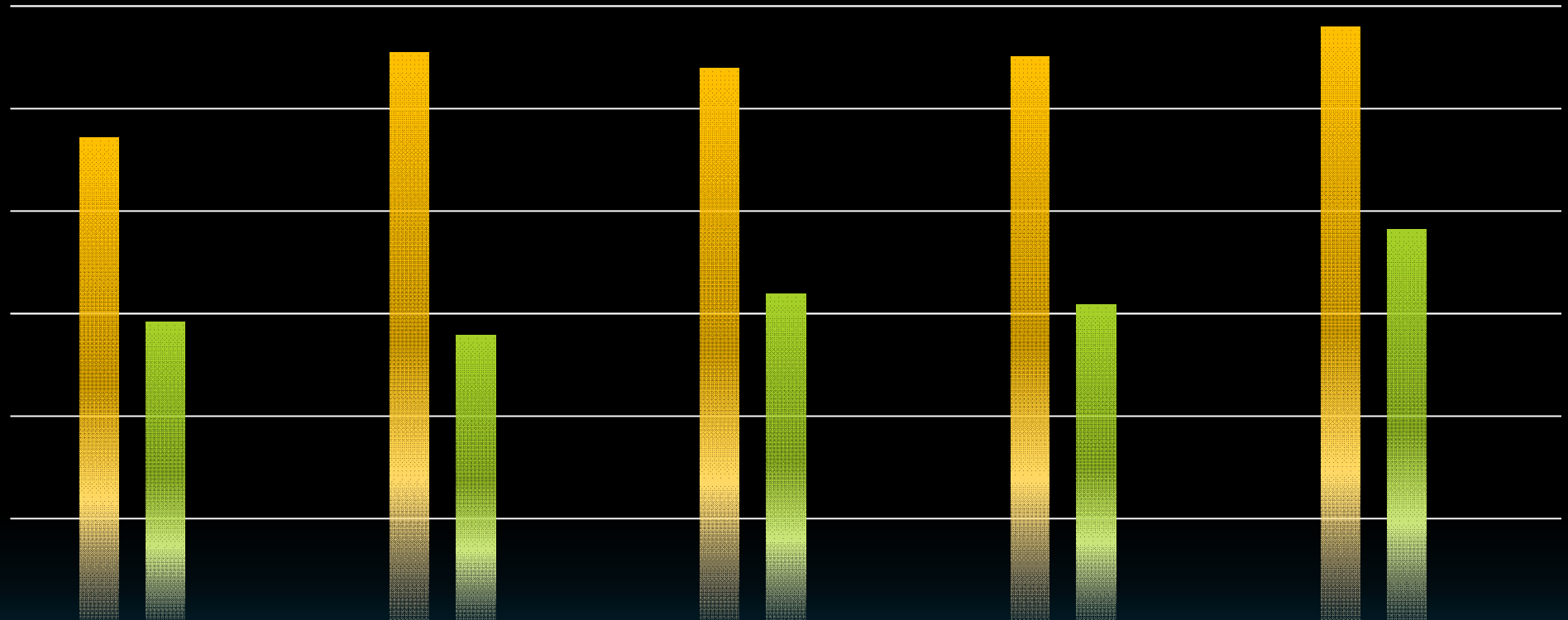
80,000,000

60,000,000

40,000,000

20,000,000

0



	2018	2019	2020	2021	2022
Gallons Pumped	94,272,800	110,899,100	107,880,600	110,186,600	115,871,300
Gallons Sold	58,289,043	55,755,062	63,889,465	61,786,394	76,370,550
% sold	61.8%	50.3%	59.2%	56.1%	65.9%



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2022: Looking Back



**TCEQ inspection with
zero violations**



**Auto-dialer Removal
Saved \$311/month**



Workshop 97% complete at the end of 2022



Installation of Electrical Quick Disconnects at Plant Sites. (Uri)



Increase Parts Inventory = shorter wait time for leak repairs



SCADA!

- Well Malfunction Alerts
- Remote System Access
- Pump Performance
- Temperature Controls



SCADA! Well Malfunction Alerts

- *Alarm!* Water level too low or too high
- *Alarm!* Power failures and/or Pump failures
- *Future Alarm!* Chlorine levels too high or too low



SCADA! Remote System Access

- Saves 2 hours of on-site reading daily / 60 hours monthly
- Saves 2000 miles of driving monthly
- Allows for real time operator analysis for Leak Detection by well site
- 24/7 iPhone access to and control of all system functions



SCADA! Pump Performance

- Review of each pump's GPM (gallons per minute) produced may indicate, 1) a weakening pump, or 2) a water level drop
- Tracking pump run times daily allows us to record gallons pumped for each well if the well meter malfunctions
- Recording of water usage trends at the same time each day aids in leak detection



SCADA! Temperature Controls

- SCADA tracks the temperature at each well site.
- An automatic flush system activates when the temperature drops below freezing, preventing the control lines at the well from freezing in extreme weather.



2023 SCADA LIVE DEMO



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VTScada Overview

03:29 PM Feb 8 Rodney

PLANT 1 Comms Last Update: 6 Sec

Well 1: 63.0 FT (Well Call), 80 F

Well 5: 94.9 FT, 71 F

PLANT 5 Comms Last Update: 5 Sec

Well 2B: 81.9 FT, 65 F

Well 7: 53.6 FT, 64 F

PLANT 2 Plant 2 Last Update: 5 Sec

Well 2A: 13.3 FT, 18'

System Pressure: 61.2 PSI

Compressor, Pump 1, Pump 2

PLANT 3 Comms Last Update: 6 Sec

Well 3C: 105.3 FT (Well Call), 67 F

PLANT 7 Comms Last Update: 5 Sec

OFFICE

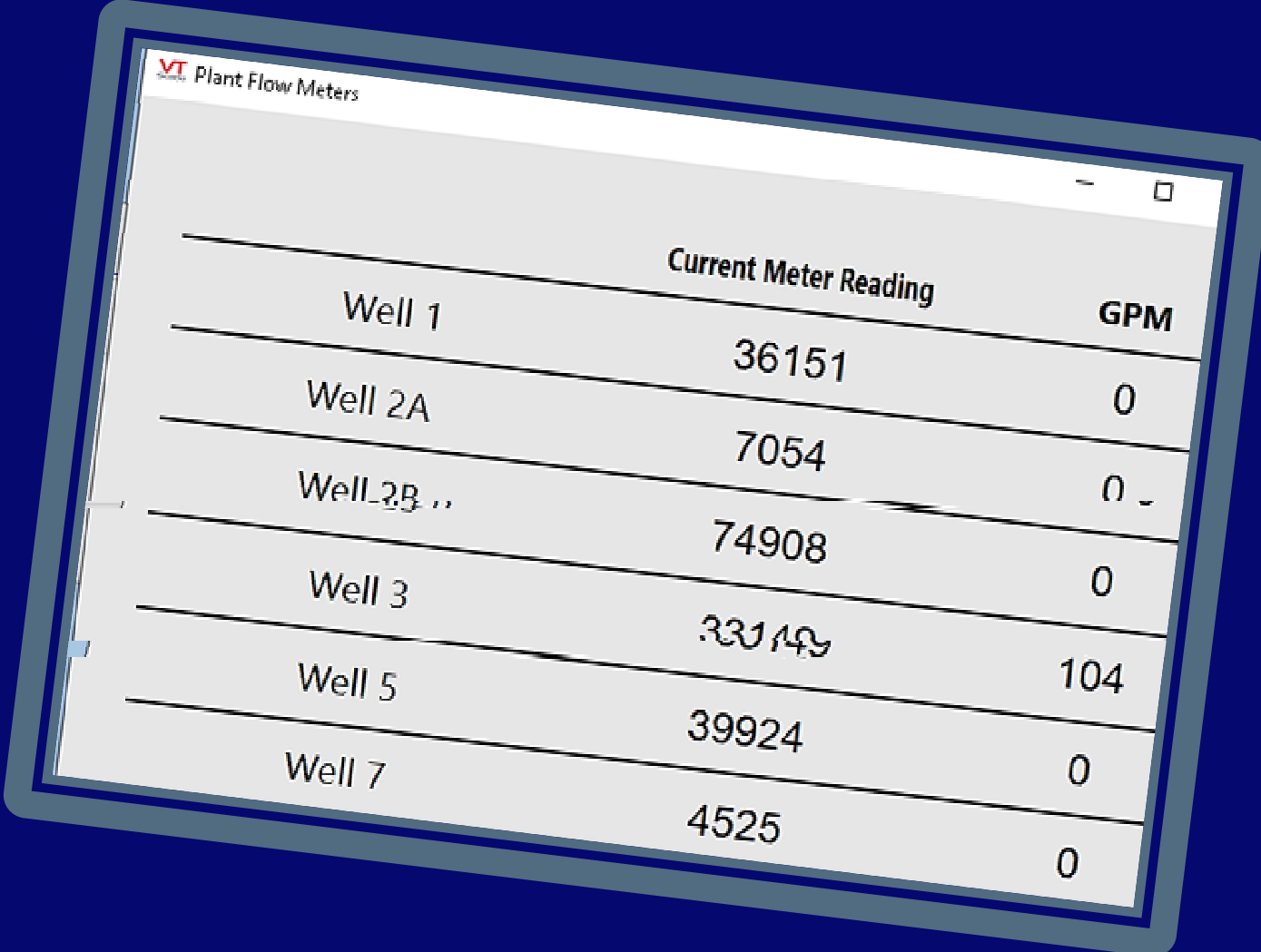
METERS

2023 SCADA Example: Plant 7 – Well Meter Readings

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Live Time
Meter
Readings

GPM = Gallons per
minute



The screenshot shows a window titled "Plant Flow Meters" with a table of well meter readings. The table has three columns: Well Name, Current Meter Reading, and GPM. The data is as follows:

Well Name	Current Meter Reading	GPM
Well 1	36151	0
Well 2A	7054	0
Well 2B	74908	0
Well 3	33149	104
Well 5	39924	0
Well 7	4525	0

2023 SCADA Example: Plant 7 – Pump and Alarm Controls

Overflows @ 99.7

PLANT 7

51.4 FT

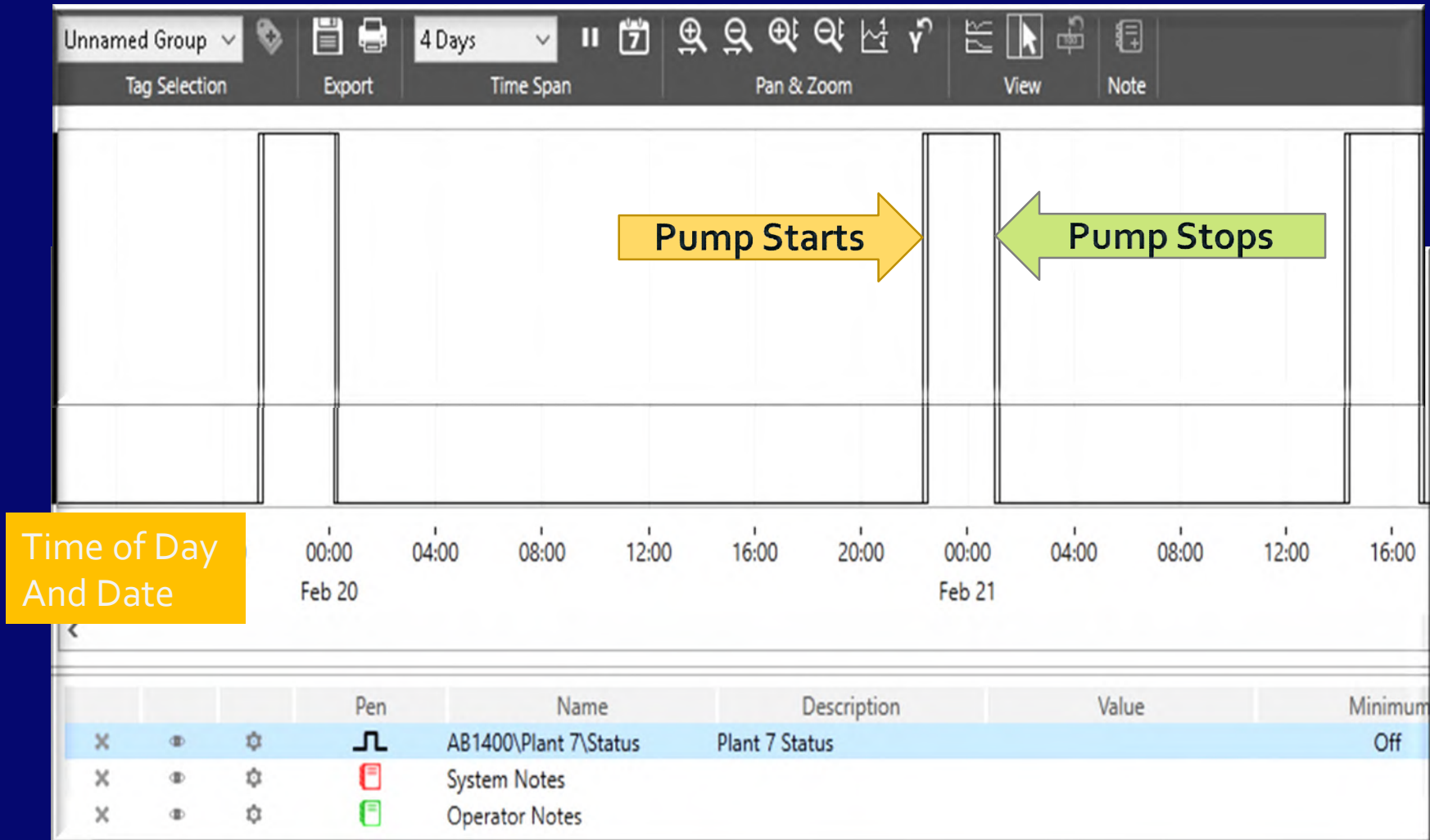
Stop Fill Setpoint 56.0 FT	High Alarm Setpoint 57.0 FT	Current Meter Reading 48277	
Start Fill Setpoint 50.0 FT	Low Alarm Setpoint 48.0 FT	RESET METER TO 0	11.0 Sec
Well 7 Off AUTO HAND	Alarm ON OFF	Meter Reset OFF ON	Comms Alarm ON OFF

The SCADA interface for Plant 7 displays the following information and controls:

- Water Level:** 51.4 FT (indicated in large blue text)
- Setpoints:**
 - Stop Fill Setpoint: 56.0 FT
 - Start Fill Setpoint: 50.0 FT
 - High Alarm Setpoint: 57.0 FT
 - Low Alarm Setpoint: 48.0 FT
- Meter Reading:** 48277 (highlighted in light blue)
- Control Elements:**
 - Well 7:** Control knob with 'Off' and 'AUTO HAND' positions.
 - Alarm:** Control knob with 'ON' and 'OFF' positions.
 - Meter Reset:** Control knob with 'OFF' and 'ON' positions.
 - Comms Alarm:** Control knob with 'ON' and 'OFF' positions.
- Other Data:** RESET METER TO 0 and 11.0 Sec.

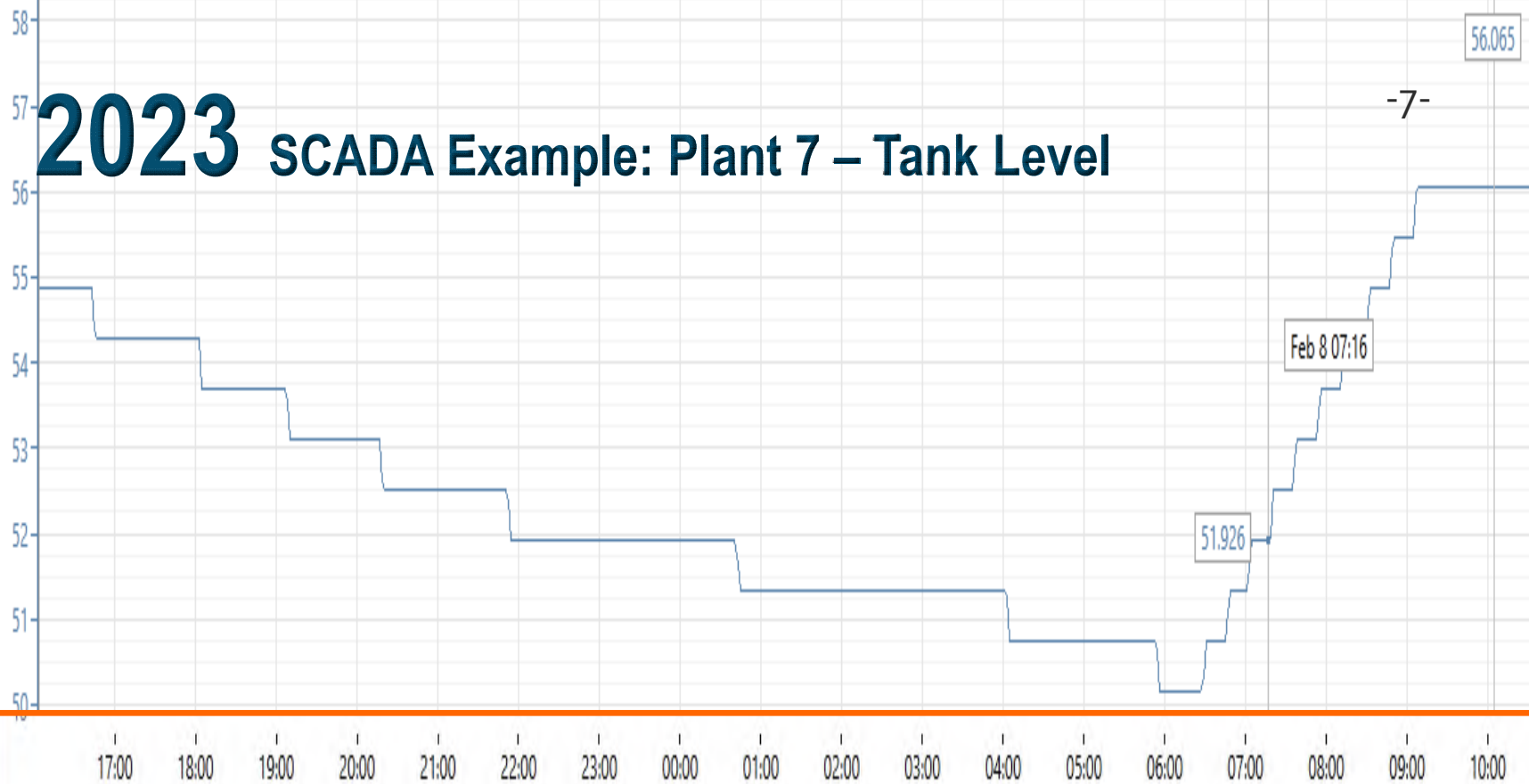
2023 SCADA Example: Plant 7 – Pump Status

-7-



Time of Day
And Date

2023 SCADA Example: Plant 7 – Tank Level



Feb 8

			Pen	Name	Description	Value	Minimum	Maximum	Average
X	⊙	⊙	~	AB1400\Plant 7\Level	Plant 7 Level	51.9 FT	50.2 FT	56.1 FT	53.2 FT
X	⊙	⊙	📄	System Notes					
X	⊙	⊙	📄	Operator Notes					



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2023: *Moving Forward*





Shop Set Up

Parts Inventory

Skidsteer Purchase



Ground One Well Site

Replenish Equipment Reserves

Begin Phase One of Line Upgrades



WATER RATE ANALYSIS

	Billed Per 1000 gallons	Mustang Valley Water	7 Local Water Co. Average	2022 TRWA Rate Study
Tier 1	1 - 10,000 gallons	\$ 3.25	\$ 4.80	\$ 5.40
Tier 2	10,001 - 20,000	\$ 4.50	\$ 6.00	\$ 6.00
Tier 3	20,001 - 50,000	\$ 5.50	\$ 7.85	\$ 7.18
Tier 4	50,001 and up	\$ 6.00	\$ 10.85	\$ 10.85



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2023: *Moving Forward*

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***THE
SKIDSTEER***



***THE
WORKSHOP***

2023: *Moving Forward*

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*More of
THE
WORKSHOP*



Q&A



A herd of horses is captured in motion, running away from the viewer through a dense forest. The scene is shrouded in a thick, ethereal mist or fog, which is illuminated by a soft, golden light, likely from a low sun or moon, creating a dreamlike atmosphere. The horses are silhouetted against the bright mist, with some showing white or light-colored markings. Tall, dark tree trunks stand vertically in the background, adding to the sense of depth and enclosure. The overall mood is serene yet powerful, capturing a moment of natural energy in a quiet, misty setting.

Good Night