



GRP Review Committee Meeting

February 22, 2022

Item 1

Call to Order

Item 2

Public Comments

Item 3

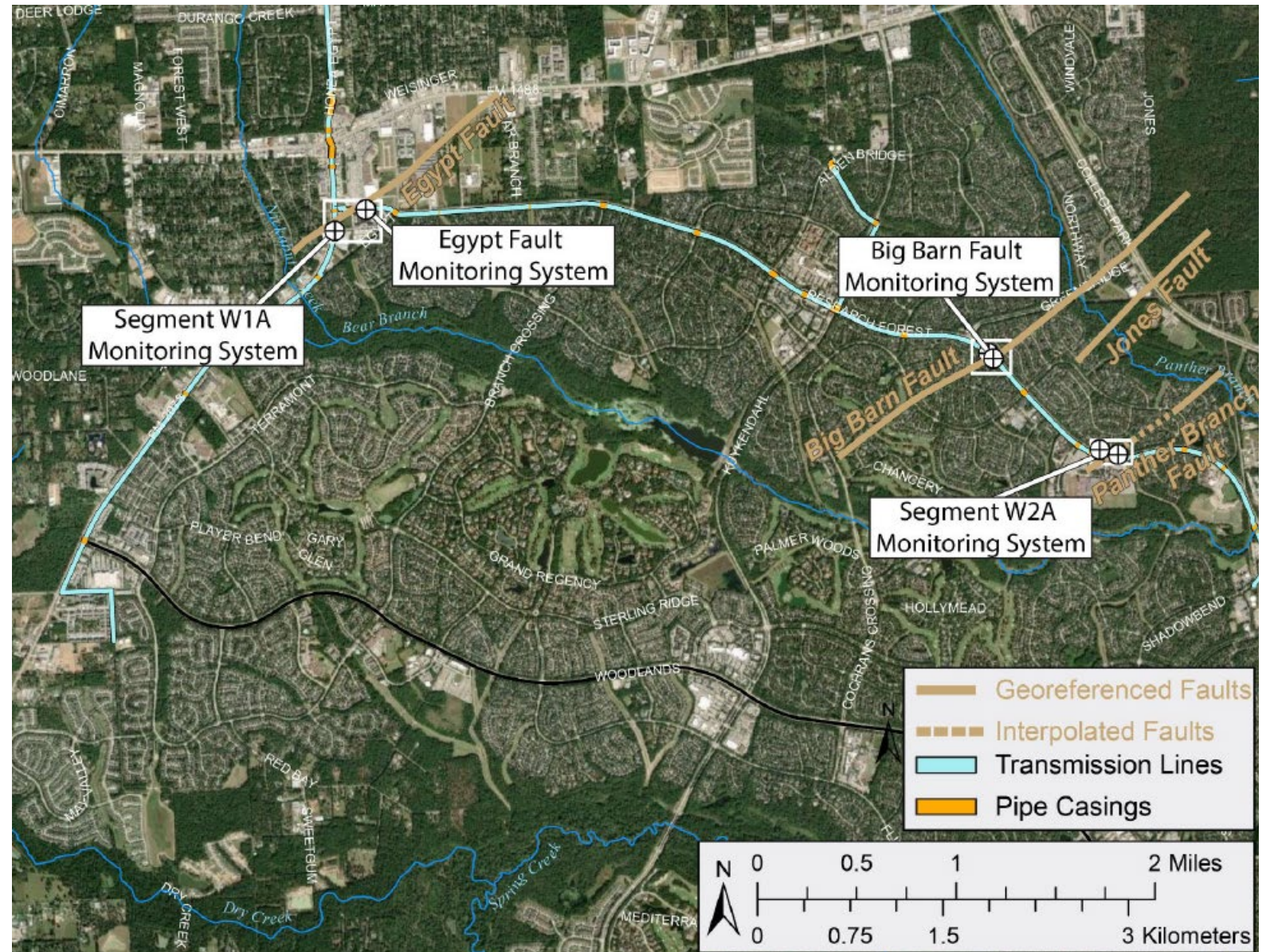
Approval of Minutes

Item 4

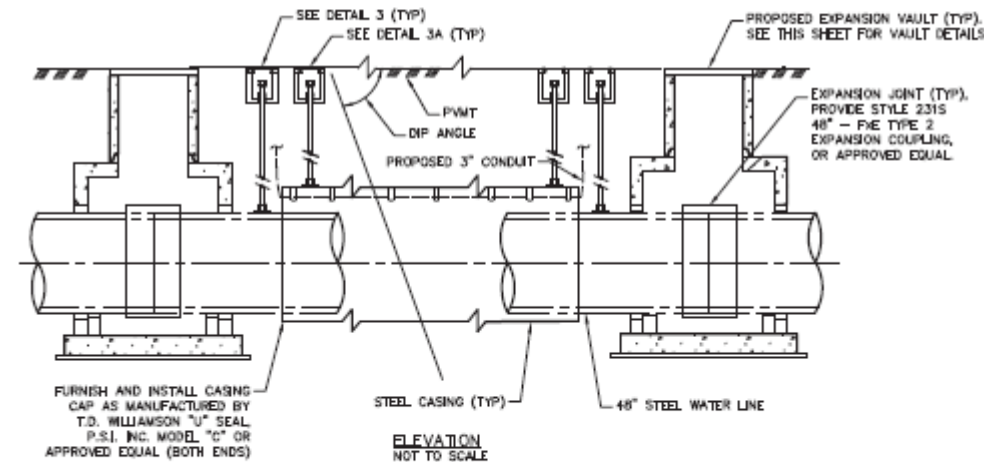
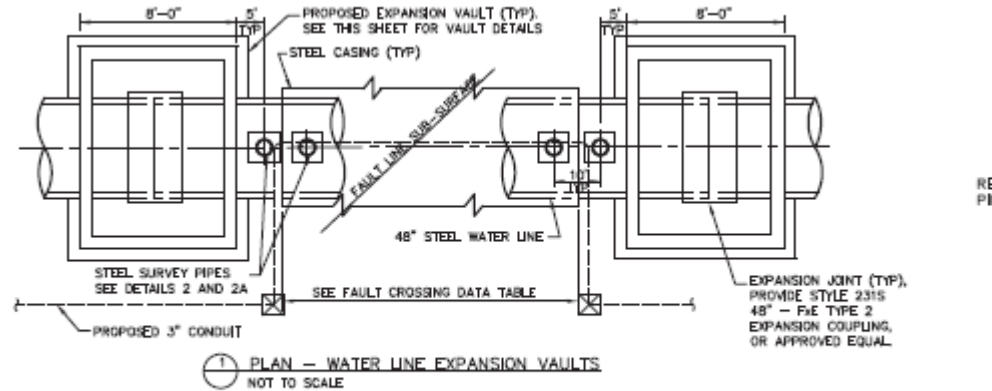
GRP Division Updates

Item 5
**Discuss and Consider Panther Branch Fault
Line Protection**

Location of SJRA Fault Monitoring Systems



Current Protection Systems



FAULT CROSSING DATA

FAULT	DIP ANGLE	CASING LOCATION	WATER MAIN DIA.	PIPE MATERIAL	MIN. CASING I.D. / WALL THICKNESS
EGYPT	0°	STA 103+77 TO STA 108+75	48"	WELDED STEEL	62"/0.5000"

W1A – Egypt Fault

0.25" of movement per year,
for 50 years

12.5" in total

W2A – Big Barn

0.25" of movement per year,
for 50 years

12.5" in total

Segment W2A Fault Monitoring System



Benchmarks for W2A

March 2015 – September 2021

Movement ranges from 0.00'
to 0.07' during the 6-year
period

Point ID	Measured Elevation			Calculated Differences	
	(a) Initial Survey March, 2015 Elev.	(b) March 2021 Elev.	(c) September 2021 Elev.	Sept 2021 minus Mar 2015 (c) - (a)	Sept. 2021 minus Mar. 2021 (c) - (b)
MbM-1	142.59	142.56	142.55	-0.04	-0.01
MbM-2	142.80	142.78	142.77	-0.03	-0.01
MbM-3	143.31	143.27	143.26	-0.05	-0.01
MbM-4	143.35	143.30	143.28	-0.07	-0.02
MbM-5	143.85	143.82	143.81	-0.04	-0.01
MbM-6	144.14	144.11	144.11	-0.03	0.00
MbM-7	144.29	144.26	144.26	-0.03	0.00
MbM-8	145.20	145.17	145.16	-0.04	-0.01
MbM-9	145.51	145.48	145.48	-0.03	0.00
MbM-10	145.63	145.60	145.63	0.00	0.03
MbM-11	146.16	146.12	146.11	-0.05	-0.01
MbM-12	145.42	145.38	145.38	-0.04	0.00
MbM-13	145.00	145.00	145.00	0.00	0.00
MbM-14	144.99	144.98	144.98	-0.01	0.00
MbM-15	144.79	144.79	144.79	0.00	0.00
MbM-16	144.78	144.78	144.78	0.00	0.00
MbM-17	144.79	144.79	144.79	0.00	0.00
MbM-18	144.55	144.55	144.54	-0.01	-0.01
MbM-20	145.86	145.83	145.82	-0.04	-0.01

Current Protection System – W2A

Geotechnical Investigation

Terracon

2012

“The Panther Branch Fault approaches Research Forest from the northeast, but apparently dies out before reaching it.”

Pipe Details

Spiral welded steel pipe with interior and exterior cement mortar coating.

Welded joints within casing

Outside of casing bell and spigot with O-rings

Allowable Movement

0.04” of horizontal movement per year, for 20 years

1” in total

Options

Options	Level of Mitigation (Per Occurrence / 50-Year Budget)				Estimate of 50-year Engineering & Construction Cost	Estimated downtime
	D	C	B	A		
Fault Study	\$75,000 / \$75,000				\$75,000	N/A
Estimated repair cost	\$100,000/ \$200,000				\$200,000	3 days
Internal Inspection		\$80,000/ \$400,000			\$400,000	3 weeks
Restrain Joints within Fault Zone			\$150,000/ \$500,000		\$500,000	1 month
Install Expansion Couplings and restrain joints				\$500,000/ \$500,000	\$500,000	2 months

Item 6

Presentation and Review of the GRP Division's Fiscal Year Budget Consideration

Public Meetings for FY23 GRP Budget

Date	Audience	FY 2023 GRP Budget Activity
<i>January 24</i>	<i>Review Committee</i>	<i>Budget Process, Demands, and Guidelines</i>
February 22	Review Committee	Receive Recommendations for FY23 Budget Considerations
March 21	Review Committee	10-Year Project Plan Presentation
March 24	SJRA Board	10-Year Project Plan Presentation
April 25	Review Committee	FY23 Draft Budget & Rate Presentation
April 28	SJRA Board	FY23 Draft Budget & Rate Presentation
May 16	Review Committee	Review Committee Vote on FY23 Budget and Rate
May 26	SJRA Board	Vote on FY23 GRP Rate Order
August 25	SJRA Board	Vote on Proposed FY23 GRP Operating Budget

Dates are subject to change.

Fiscal Year 2022 Budget

Total demand
52.70 MGD

Annual average SWTP Production
12 MGD

Surface
Water
Recipients

City of Conroe

City of Oak Ridge North

MSEC

MUD 99

SJRA Woodlands

SMCMUD

Rayford Road MUD

Fiscal Year 2023 Projected Demand

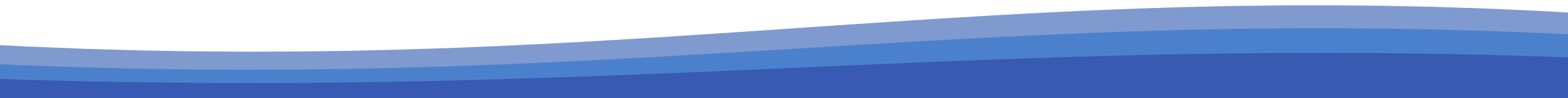
Fiscal Year (Sept – Aug)		
Calculation	Gallons*	MGD*
2-Year Average	20,609,556,920	56.46
3-Year Average	20,203,054,162	55.35
4-Year Average	19,905,599,386	54.54
5-Year Average	19,824,119,556	54.31

GRP's recommendation

**4-Year Average
54.54 MGD**

*Adjusted numbers due to adjusted Participant demands

GRP Review Committee Recommendations

1. Recommend a projected demand to be used in preparing the GRP Division's Fiscal Year 2023 Operating Budget.
 - GRP Staff recommendation: 4 fiscal year average (54.54 MGD)
 2. Confirmation of base annual average surface water production for Fiscal Year 2023.
 - GRP Staff recommendation: 13 MGD Annual Average, with varying blend ratios
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Item 7
Lone Star Groundwater Conservation
District Update

Item 8
Groundwater Management Area
(GMA) 14 Update

Item 9
GRP items for consideration by the
SJRA Board of Directors on February 24, 2022

Item 10

Attorney's Update

Item 11
Future GRP Review Committee Meeting
Agenda Items

Item 12
Future Meeting Schedule and Agenda Items:

Monday, March 21, 2022

Item 13 Adjourn