

MINUTES OF WORKSHOP MEETING
BOARD OF DIRECTORS
LAGUNA MADRE WATER DISTRICT

The **WORKSHOP MEETING** of the **LAGUNA MADRE WATER DISTRICT** was held at the Administration Office of the District, 105 Port Road, Port Isabel, Texas on the 7th day of **JUNE**, at the hour of **5:30 p.m.** pursuant to written notice as presented by law.

ITEM #1 **QUORUM**

The **CHAIRMAN** called the **WORKSHOP MEETING** to order at **5:30 p.m.** and he determined the Notice of the Meeting had been duly posted in accordance with the law and the following present constituted a quorum:

BOARD OF DIRECTORS

Scott D. Friedman - Chairman
William Thomas – Vice Chairman
Doyle Wells – Secretary
Jeff Keplinger – Director
Rick Wells – Director

ADMINISTRATIVE STAFF

Carlos J. Galvan, Jr. – General Manager
Charles Ortiz – District Engineer
Sanjuana Garcia – Director of Finance

ITEM #2 **INVOCATION AND PLEDGE OF ALLEGIANCE**

The **CHAIRMAN** invited everyone in the audience to stand for the opening Prayer and recite the Pledge of Allegiance.

ITEM #3 **CONSIDER AND DISCUSS UNFUNDED CAPITAL IMPROVEMENT PROJECTS AS FOLLOWS:**

- **SLUDGE HOLDING TANKS AT PORT ISABEL WASTEWATER TREATMENT PLANT**
- **ISLA BLANCA WASTEWATER TREATMENT PLANT GRIT REMOVAL AND HYDRAULIC IMPROVEMENTS**
- **ANDY BOWIE WASTEWATER TREATMENT PLANT GRIT REMOVAL AND ENERGY EFFICIENCY IMPROVEMENTS**
- **LIFT STATION REHABILITATION AND FORCE MAIN UPGRADES**
- **ADVANCED WATER TREATMENT FACILITY (POTABLE REUSE)**

- **NEW SLUDGE DRYING BASINS AT WATER PLANT 2**

This item was for discussion only no action.

There was a presentation given by Mr. Richard Correa, PE, with Garver. Mr. Jeff Sober, PE, with Garver gave a presentation through teleconference. Followed by discussion and questions.

Printed copies of the presentation were handed out prior and attached to the minutes.

Garver and Mr. Ortiz presented a justification for new Sludge Holding Tanks at Port Isabel Wastewater Treatment Plant as follows: 1) TCEQ compliance for maintenance of aeration equipment (fine-air bubble diffusers) currently under construction and 2) provide a 5-day holding period at peak sludge production to improve process control.

Garver presented a plan for grit removal analysis at Isla Blanca WWTP and Andy Bowie WWTP. Hydraulic improvements will be identified to resolve capacity limitations at Isla Blanca WWTP aeration basins, and energy efficiency improvements will be identified for Andy Bowie WWTP.

The bond application report will provide a system-wide evaluation for lift stations and force mains to implement a plan that will accommodate pump replacement, electrical controls restoration, and wet-weather flows.

Garver, Mr. Ortiz, and the Board of Directors discussed the proposed Water Reclamation Facility. The Board requested additional information on water supply alternatives to consider the purchase of additional Water Rights, including coordination with US Fish and Wildlife. If alternatives were to be considered, Mr. Ortiz recommended analysis of Aquifer Storage Recovery at the north end of South Padre Island.

The Bond Election will propose funding for construction of new sludge drying basins at Water Treatment Plant No. 2.

All above-stated projects are proposed to be included in November 2017 Bond Election. An Engineer Report must be completed, including Opinion of Probable Cost, for consideration and approval by Board of Directors at meeting to be held on August 9th to meet schedule required to hold a November 2017 Bond Election.

ITEM #4 **PROVIDE A STATUS OF HYDRAULIC & FILTER CAPACITY IMPROVEMENTS AT WATER PLANT 1.**

This item was discussed in item #3 and was for discussion only and no action.

An evaluation of Water Treatment Plant No. 1 hydraulic and filter capacity was done; no major needs were identified to include on the proposed November 2017 bond election. A clarifier bottleneck was identified in the launder orifices, which can be resolved by drilling larger openings at the existing holes. The media section is sufficient for 5.0 MGD based on TCEQ requirements, but Operations will need to test water quality by determining max flow that can meet turbidity requirements.

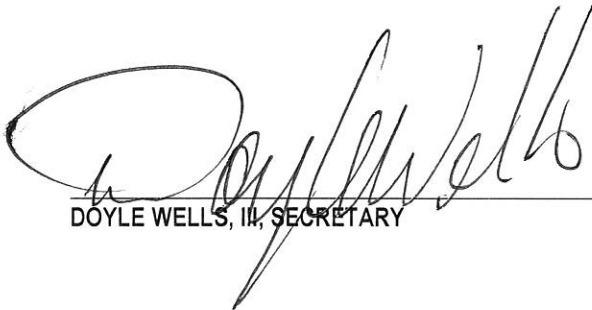
ITEM #5 CONSIDER AND DISCUSS REVISED CT STUDY FOR THE ADDITION OF CHLORINE DIOXIDE AT WATER PLANT 1.

This item was discussed in item #3 and was for discussion only and no action.

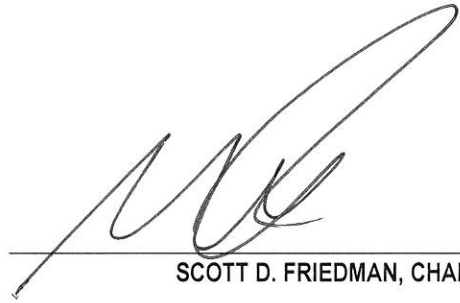
Current CT Study using chloramines limits plant capacity to 2.938 MGD. Our manual chlorine dioxide generator at Water Plant 2 is readily available to be moved to Water Plant 1 for piloting the use of chlorine dioxide at this facility. The stronger disinfectant will allow Water Plant 1 to meet disinfection requirements at a higher flow rate. Our Water Infrastructure (revenue) source is proposed to fund this improvement.

ITEM # 6 ADJOURNMENT

The Chairman adjourned the Workshop Meeting at 6:55 p.m.



DOYLE WELLS, III, SECRETARY



SCOTT D. FRIEDMAN, CHAIRMAN

MINUTES APPROVED THIS 28TH DAY OF JUNE 2017.