



BUILDING FOR TOMORROW'S FUTURE, TODAY!

EDINBURG 2040 COMMITTEE

TRANSPORTATION/MOBILITY/CONNECTIVITY/DRAINAGE/BROADBAND

CITY OF EDINBURG, HIDALGO COUNTY, TEXAS

Location: City of Edinburg
City Hall-Community Room
415 West University Dr.
Edinburg, Texas 78541

POST MEETING NOTES

April 24, 2023

6:00 P.M.

I. CALL TO ORDER

The meeting was called to order at 6:03 PM.

Committee members present included: Chair Andres Palma; Ivan Garcia; Alfonso Quintanilla; Marty Myers; Rick Carrera; Chuck Salvia; Velinda Reyes; and Alcinda Prado.

City staff present included: Public Works Director Vince Romero; Aviation Director Eddie Velarde; Roberto Hernandez; Alicia Carmona; Patrizia Longoria; Carlos Garza; and Letty Pantoja.

II. COORDINATOR'S REPORT

The 2040 Coordinator discussed the follow-ups pending regarding the committee's goals. These included:

- Follow up with Dr. Zemrani to provide a list of resources that can be provided by UTRGV and the Public Affairs Department.
- Follow up with Grants Administration Director Marissa Garza to receive opportunities for grants that assist in the fixing of bridges in Edinburg. In addition, consult with Assistant City Manager (ACM) Tom Reyna for information on the process of repairing county-owned bridges.
- Discuss with ACM Tom Reyna and Patrizia Longoria with Engineering Department to provide alternate routing protocols during construction to alleviate congestion.
- Follow up with Director of Public Works Vince Romero and ACM Tom Reyna reading the budget for regional stream gauges.

The 2040 Coordinator also mentioned that the Engineering Department's GIS staff continues to work on the database to map out the sewer systems in the city and digitalize the asphalts the department has in paper. This is a work in progress.

Committee Chair Andres Palma mentioned that Councilmember Dan Diaz would like for the committee to review the SH 107 project designs and provide feedback. It was

discussed that Ms. Velinda Reyes from Hidalgo County will be requesting those from Hidalgo County Pct. 2 and email those to the committee. The committee will provide comments in the next meeting.

III. DISCUSS AND CONSIDER GOALS AND NEEDS REGARDING:

Mr. Palma mentioned that he will provide the finalized goals to the 2040 Coordinator this week. The 2040 coordinator deferred to the department Directors to discuss any department needs. The discussions were as follows:

A. TRANSPORTATION

Aviation Director Eddie Velarde mentioned the goal is to have the Airport's runway extended up to 6,000 ft. The Aviation department would also like to see the Airports' infrastructure to be expanded. Within the next 5-10 years, the Aviation department's goal is to have more Airport hangars and leases.

B. MOBILITY

Engineering Staff Patrizia Longoria mentioned that the department would like to see a traffic school for traffic engineering. It was mentioned that the Rio Grande Valley Metropolitan Planning Organization (RGV MPO) could play a role in this.

C. CONNECTIVITY

The committee agreed to further discuss this topic at their next meeting.

D. DRAINAGE

Mr. Romero provided a presentation on the city's Real-Time Hydrological System (RTHS). Mr. Romero explained that the RTHS is an early flood warning system that is a water quality best management tool to provide data and information. The information will be linked to a comprehensive network across the Rio Grande Valley. With the information from the system being updated every five minutes, the Public Works Department can determine if subdivisions or thoroughfares are in danger of flooding. This project was needed as the City of Edinburg's main drain is at full capacity, which makes rain flooding possible.

The RTHS will contribute to the improvement of the Public Works operations during major weather events. For instance, notifications from the RTHS has brought great information over the past few months. Additionally, Barometric Pressure, Gage Height, Humidity, Water Temperature, Air Temperature, Wind Direction and Wind Speed are some specifications and data that the RTHS receives and updates. Please refer to the meeting presentation attached.

Regarding the department needs, Mr. Romero mentioned that he would like to have a street assessment and master drainage plan. It was discussed that within the next five years, the department will need at least three more patch trucks, and 8-10 total patch trucks by 2040.

Mr. Romero also mentioned he would like to have a street cleaning program with a minimum of five street sweepers on staff. This would include one operator per sweeper and one-night sweeper. The committee agreed that this is needed to keep the city clean, especially since the University of Texas Rio Grande Valley (UTRGV) is bringing college football in 2025.

E. BROADBAND

Mr. Palma mentioned he had a conversation with the City's Director of IT, Daniel Vera, regarding broadband prior to the meeting. Mr. Palma mentioned that there is a need for a broadband feasibility study. In addition, a goal is to rebuild/reconfigure the City's network that will provide a second internet link. This will be for resilience and business continuity. This will also provide a 100% uptime network.

It was also mentioned that the City of McAllen has 41 IT employees and the City of Edinburg has 15.

IV. OTHER BUSINESS

The committee agreed to have the next meeting at the Edinburg's South Texas International Airport as some of the committee members have never visited or toured the facility.

The committee also suggested inviting the Edinburg 2040 Chair of the Economic Development/Innovation/Entrepreneurship/Workforce committee, Pedro Salazar, to the next meeting to provide an update on his committee's water resources goals.

V. ADJOURNMENT

The meeting adjourned at 7:10 PM.



Real-Time Hydrological System (RTHS) EPA #1

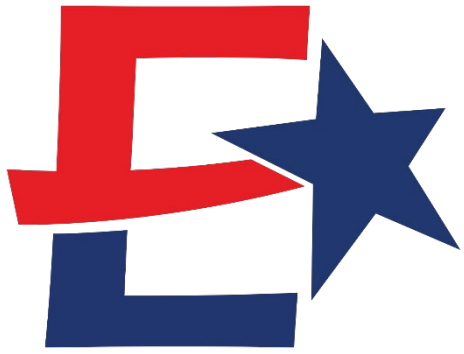
By Robert Valenzuela Jr., Stormwater Manager





Stormwater Division

- Manages the General Permit to Discharge Under the Texas Pollutant Discharge Elimination System, Under Provisions of 402 of the Clean Water Act of 1972 and Chapter 26 of the Texas Water Code. (The law gave EPA the Authority to set water quality standards for industry and for all contaminants in surface waters.)
- City of Edinburg Permit No. TXR040323 is currently active and on the fourth year of a five year cycle.
- City of Edinburg's Stormwater Management Program has been approved by TCEQ (Texas Commission on Environmental Quality) under the regulations of the TPDES General Permit No. TXR040000
 - Major Factors of the Stormwater Management Programs consist of
 - Public Education, Outreach and Involvement
 - Illicit Discharge & Detection Elimination
 - Construction Site Stormwater Runoff Control
 - Post-Construction Stormwater Management In New Development and Redevelopment
 - Pollution Prevention/Good Housekeeping for Municipal Operations.
- City of Edinburg is Currently a Level 3 which will change to Level 4 after the fifth year of the permit cycle due to the population exceeding 100,000.



Lower Rio Grande Valley TPDES Stormwater Task Force



- The Lower Rio Grande Valley TPDES Stormwater Task Force is a joint program between the R.A.T.E.S (Research, Applied, Technology, Education and Services) and with various municipalities all across the Rio Grande Valley. The Task Force provides education and different ways to improve how cities plan their stormwater management programs.
- City of Edinburg is Currently a Member of the Stormwater Task Force & has been for the past 12 years.
- Task Force Currently has 28 Members (Municipalities, Counties, Drainage Districts & Irrigation Districts) and is the only coalition of its kind in Texas
- Task Force Provides assistance with organizing the Stormwater Management Program which is approved by EPA and TCEQ
- As a Member of the Task Force, we have a great working relationship with TCEQ Region 15 and EPA Region 6



Border 2025:

United States - Mexico Environmental Program



- **Grant Name:** US/Mexico Border Environmental Program Border 2025. (EPA Border 2025 Project)
- **Applicant:** City of Edinburg & Lower Rio Grande Valley Task
- **Project:** RTHS (Real Time Hydrologic System) EPA 1
- **Objective:** Monitoring and assessing surface water flows and sediments loads, and utilizing outreach and education best management practices to disseminate information. City of Edinburg will invest in a sustainable strategy that will strive to develop an early flood warning system, a water quality best management practice tool that will provide important data and information during and after a major rain event.
- **Data:** Sensor is gathering data every 5 minutes from Barometric Pressure, Gage Height, Water Temperature, Air Temperature, Wind Direction & Wind Speed.

City of Edinburg

Real-Time Hydrological System (RTHS) Station location

Legend

- ◆ Survey Point
- City of Edinburg Ditches
- HCDD #1 Ditches
- City of Edinburg





Fairhaven Heights Ph 2,3 & 4

Fairhaven Village Ph 1

Fairhaven Heights Ph 1

EPA 1

RTHS Stations



LRGV Counties



HCDD1_System



NHDFlowline

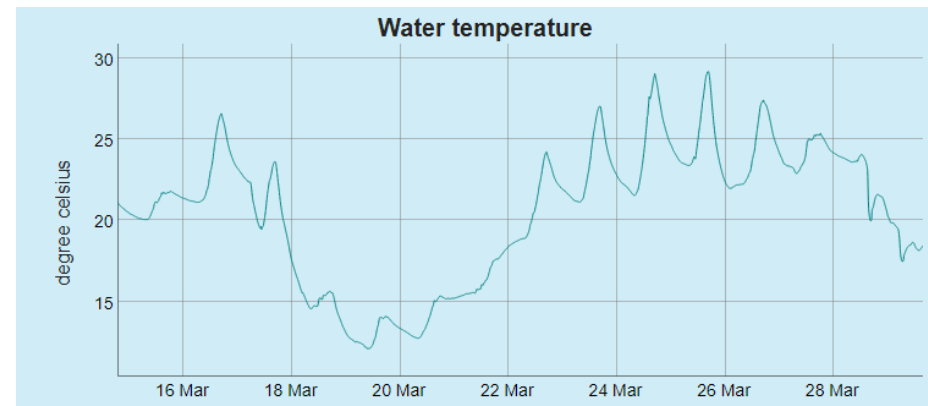
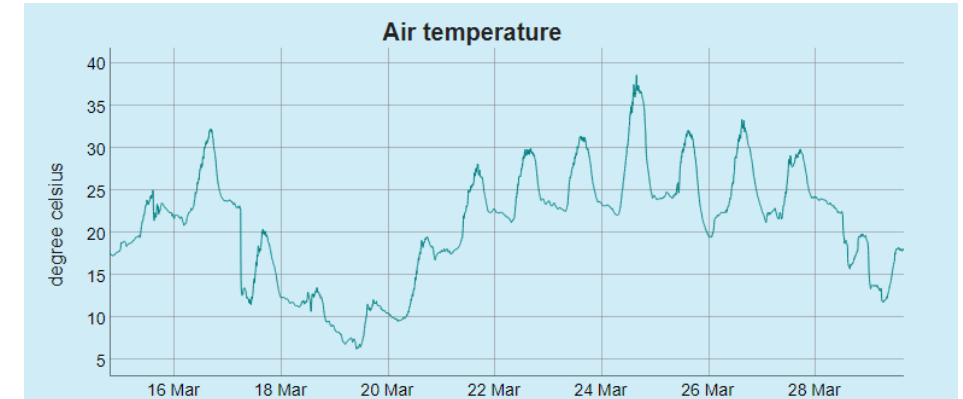
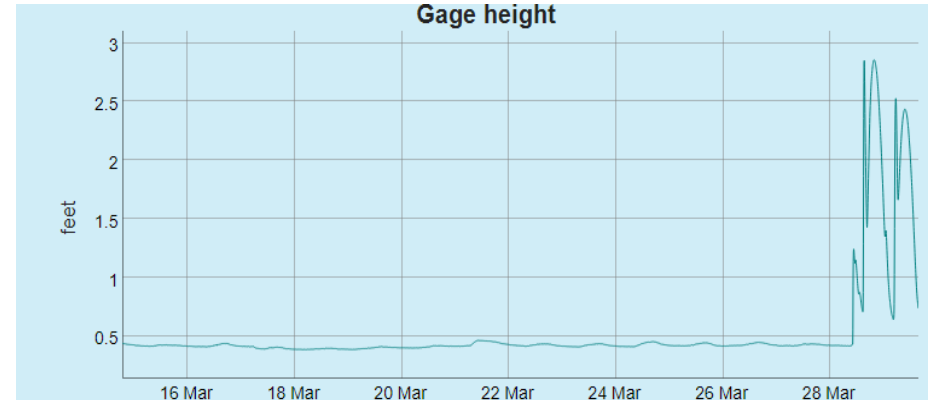


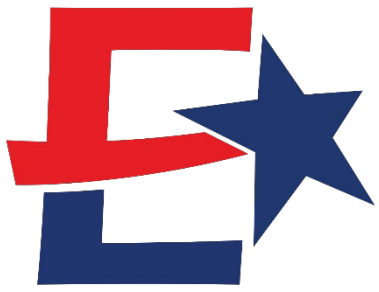
Rain Event March 28th to 29th of 2023



REON Real Time Hyrdologie System Rain Events

	UTC Date	Gage Height	Water temp(F)	Air temp(F)
	3/28/2023 0:00	1.10	77.42	83.30
	3/28/2023 0:05	1.10	77.40	83.20
	3/28/2023 0:10	1.10	77.34	83.12
	3/28/2023 0:15	1.10	77.33	83.08
	3/28/2023 0:20	1.10	77.35	82.81
	3/28/2023 0:25	1.10	77.33	82.55
	3/28/2023 0:30	1.10	77.30	82.40
	3/28/2023 0:35	1.10	77.26	82.11
	3/28/2023 0:40	1.10	77.21	81.74
	3/28/2023 0:45	1.10	77.18	81.67
	3/28/2023 0:50	1.10	77.14	81.43
	3/28/2023 0:55	1.10	77.11	81.16
	3/28/2023 1:00	1.10	77.08	80.95
	3/28/2023 1:05	1.10	77.01	80.74
	3/28/2023 1:10	1.10	76.99	80.52
	3/28/2023 1:15	1.10	76.95	80.31
	3/28/2023 1:20	1.09	76.92	80.12
	3/28/2023 1:25	1.09	76.89	79.88
	3/28/2023 1:30	1.09	76.84	79.50
	3/28/2023 1:35	1.09	76.81	79.02
	3/28/2023 1:40	1.09	76.77	78.60
	3/28/2023 1:45	1.09	76.73	78.35
	3/28/2023 1:50	1.09	76.70	78.26
	3/28/2023 1:55	1.09	76.64	78.20
	3/28/2023 2:00	1.09	76.61	78.02
	3/28/2023 2:05	1.09	76.56	77.85
	3/28/2023 2:10	1.09	76.53	77.66
	3/28/2023 2:15	1.09	76.49	77.34
	3/28/2023 2:20	1.09	76.45	77.12
	3/28/2023 2:25	1.09	76.42	76.97
	3/28/2023 2:30	1.09	76.37	76.76
	3/28/2023 2:35	1.09	76.34	76.64
	3/28/2023 2:40	1.09	76.31	76.64
	3/28/2023 2:45	1.09	76.27	76.53
	3/28/2023 2:50	1.08	76.22	76.43
	3/28/2023 2:55	1.09	76.18	76.28
	3/28/2023 3:00	1.08	76.14	76.22
	3/28/2023 3:05	1.08	76.12	76.10
	3/28/2023 3:10	1.09	76.07	75.99
	3/28/2023 3:15	1.08	76.05	75.86
	3/28/2023 3:20	1.08	76.01	75.70
	3/28/2023 3:25	1.09	75.96	75.56





Thank You,

Any Questions?

Robert Valenzuela, Stormwater Manager
rvalenzuela@cityofedinburg.com

