

319 Projects in the Valley

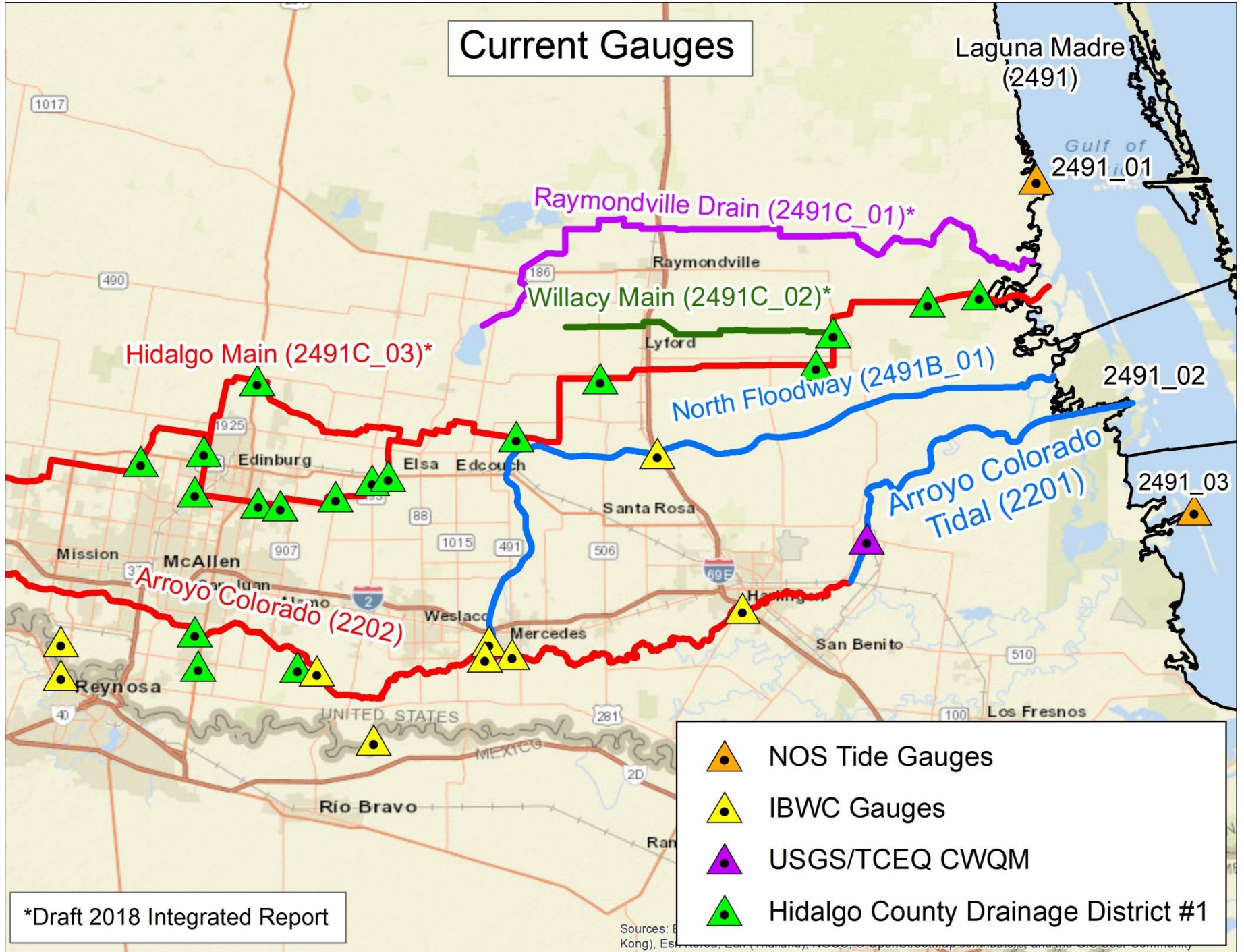
Lower Rio Grande Valley Development Council
Watershed Protection Plan Meeting
Wednesday, July 15, 2020



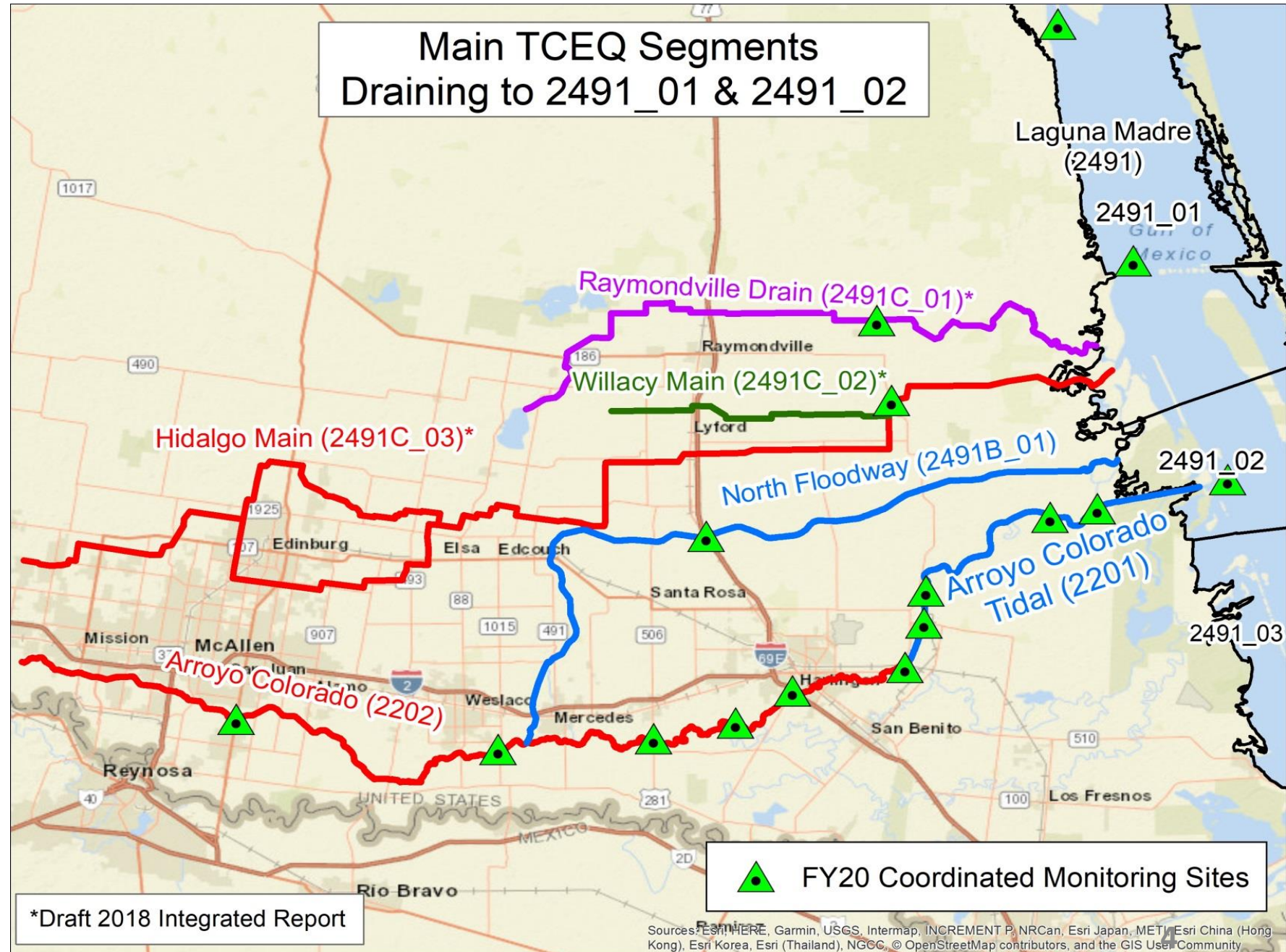
North and Central Watersheds Background

- The Raymondville Drain and the Hidalgo/Willacy Main, the IBWC pilot channel (IBWC North Floodway) flow into the **Lower Laguna Madre** which is **impaired** for low **DO** and **bacteria**.
- The **three floodways** collect **stormwater runoff** and **agriculture runoff activity** (Non-point source Pollution).
- There is a **lack of water quality data** collection within the target region and limited data has been collected

Flow Monitoring Stations



Water Quality Monitoring Stations



IBWC North Floodway (2020 Texas Integrated Report)

SEGID: 2491B North Floodway

AUID: 2491B_01 From 0.04 mi north of Campacuas Lake and 0.32 mi west of FM 491 (Mercedes, TX) to the confluence with Lower Laguna Madre (tidal flats)

Aquatic Life Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Data Assessed Value	Exceedances #	Exceedances Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/01/11 - 11/30/18	2	24		0		AD	FS	<input type="checkbox"/>	FS		
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/01/11 - 11/30/18	3	24		0		AD	NC	<input type="checkbox"/>	NC		

Recreation Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Data Assessed Value	Exceedances #	Exceedances Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/01/11 - 11/30/18	126	16	262.63	1		LD	CN	<input type="checkbox"/>	CN	Bacteria in water	

General Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Data Assessed Value	Exceedances #	Exceedances Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Ammonia	12/01/11 - 11/30/18	0.33	23		0		AD	NC	<input type="checkbox"/>	NC		
Nutrient Screening Levels	Chlorophyll-a	12/01/11 - 11/30/18	14.10	25		20	49.57	AD	CS	<input type="checkbox"/>	CS	Chlorophyll-a in water	
Nutrient Screening Levels	Nitrate	12/01/11 - 11/30/18	1.95	24		22	3.58	AD	CS	<input type="checkbox"/>	CS	Nitrate in water	
Nutrient Screening Levels	Total Phosphorus	12/01/11 - 11/30/18	0.69	22		0		AD	NC	<input type="checkbox"/>	NC		

Raymondville Darin (2020 Texas Integrated Report)

SEGID: 2491C Drainage ditches flowing into Lower Laguna Madre

AUID: 2491C_01 Raymondville Drain flowing into Lower Laguna Madre

Aquatic Life Use

Method	Parameter	Period of Record	Criteria	Data Assessed # Value	Exceedances # Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/01/11 - 11/30/18	2	5	0	TR	NC	<input type="checkbox"/>	NA		
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/01/11 - 11/30/18	3	5	0	TR	NC	<input type="checkbox"/>	NA		

Recreation Use

Method	Parameter	Period of Record	Criteria	Data Assessed # Value	Exceedances # Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/01/11 - 11/30/18	126	5 65.12	0	TR	NA	<input type="checkbox"/>	NA		

General Use

Method	Parameter	Period of Record	Criteria	Data Assessed # Value	Exceedances # Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Ammonia	12/01/11 - 11/30/18	0.33	5	0	TR	NC	<input type="checkbox"/>	NA		
Nutrient Screening Levels	Chlorophyll-a	12/01/11 - 11/30/18	14.10	5	4 67.73	TR	CS	<input type="checkbox"/>	NA		
Nutrient Screening Levels	Nitrate	12/01/11 - 11/30/18	1.95	5	4 4.30	TR	CS	<input type="checkbox"/>	NA		
Nutrient Screening Levels	Total Phosphorus	12/01/11 - 11/30/18	0.69	5	3 0.78	TR	CS	<input type="checkbox"/>	NA		

Hidalgo/ Willacy Main (2020 Texas Integrated Report)

AUID: 2491C_03 Hidalgo Main Floodwater Channel flowing into Lower Laguna Madre

Aquatic Life Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/01/11 - 11/30/18	2	5		0		TR	NC	<input type="checkbox"/>	NA		
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/01/11 - 11/30/18	3	5		0		TR	NC	<input type="checkbox"/>	NA		

Recreation Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/01/11 - 11/30/18	126	5	484.32	1		TR	NA	<input type="checkbox"/>	NA		

General Use

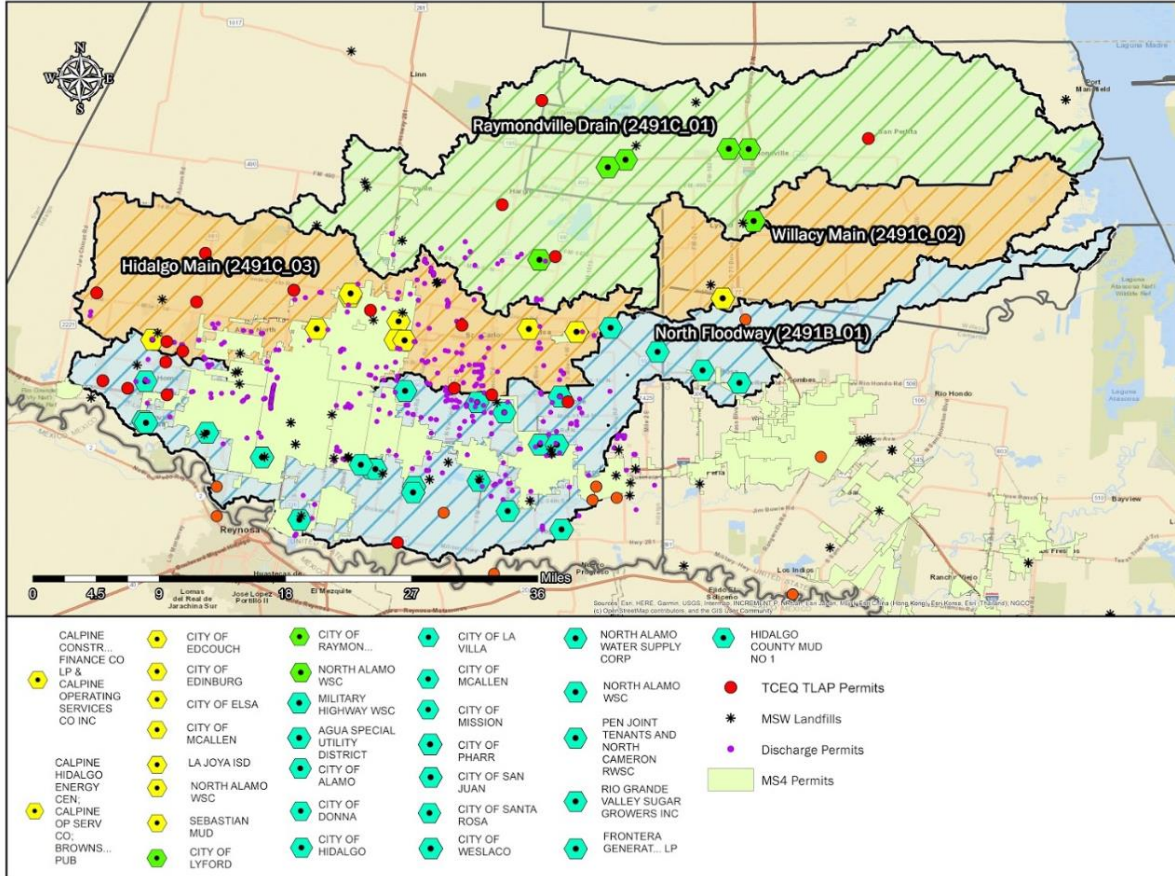
Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Ammonia	12/01/11 - 11/30/18	0.33	5		0		TR	NC	<input type="checkbox"/>	NA		
Nutrient Screening Levels	Chlorophyll-a	12/01/11 - 11/30/18	14.10	5		4	31.85	TR	CS	<input type="checkbox"/>	NA		
Nutrient Screening Levels	Nitrate	12/01/11 - 11/30/18	1.95	5		1	2.34	TR	NC	<input type="checkbox"/>	NA		
Nutrient Screening Levels	Total Phosphorus	12/01/11 - 11/30/18	0.69	5		0		TR	NC	<input type="checkbox"/>	NA		

Project Goal

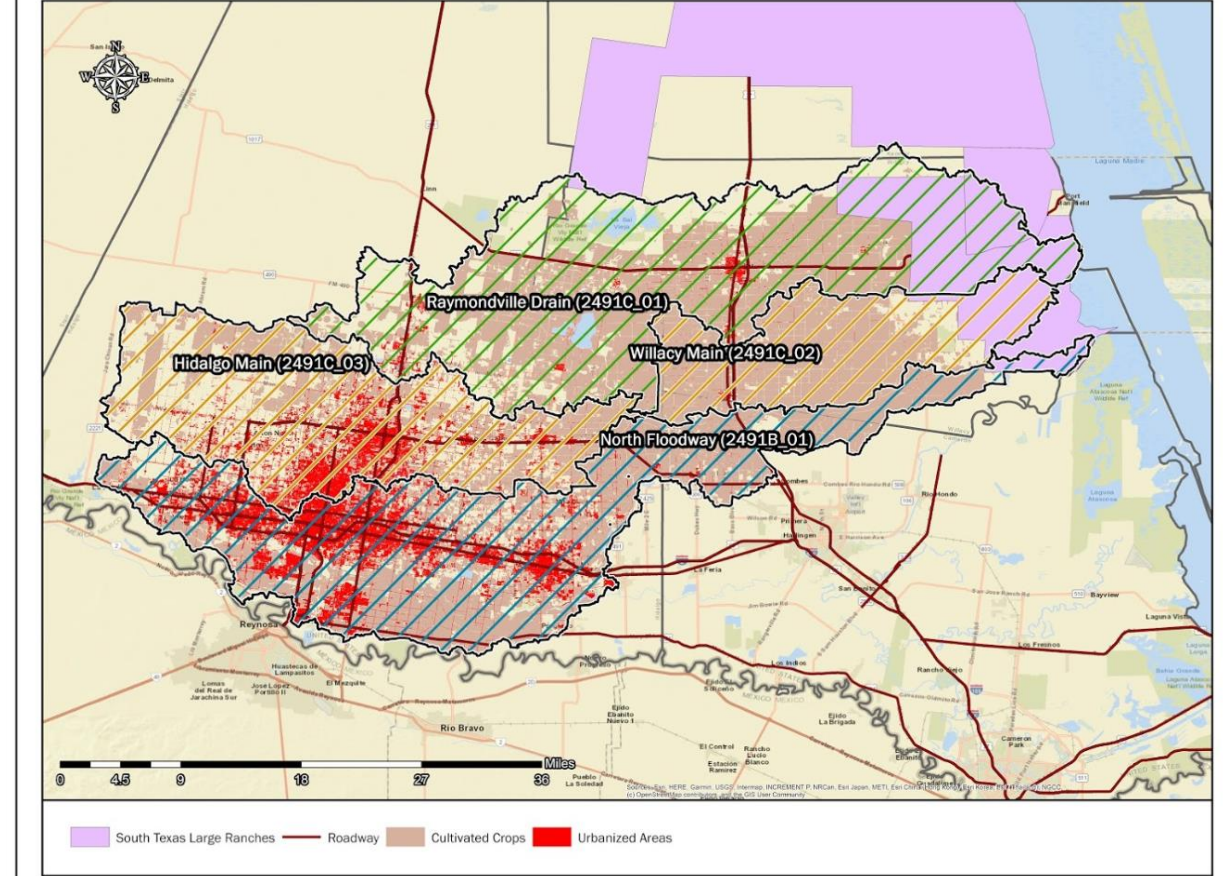
- Partial development of Element A and initiation of Element E of EPA's Nine Elements for WBPs found in the Handbook for Developing Watershed Plans to Restore and Protect our Waters.
 - Completion of Watershed Characterization – Data Evaluation Report and approval from TCEQ PM
- Engage stakeholders to provide input for the development of a Strategic Plan moving forward based on information presented from the Watershed Characterization.
 - Formation of **Stakeholders workgroups**.
 - List of next steps for watershed-based planning in the Partnership Coordination Report.

Watershed Characterization

North and Central Watersheds Point Sources



North and Central Watersheds Non-Point Sources



Steering Committee Meetings

Date	
02/26/2019	USIBWC North Floodway
03/14/2019	Raymondville Drain
03/25/2019	Hidalgo/Willacy Main Drain
09/11/2019	USIBWC North Floodway
09/25/2019	Hidalgo/Willacy Main Drain
11/06/2019	Raymondville Drain



Field Trips



Hidalgo/ Willacy Main Field Trip (09/09)



USIBWC North Floodway Field Trip (09/26)

Watershed Protection Plan

1- Raymondville Drain Watershed Protection Plan - Includes region **above the Hidalgo/Willacy Floodway** northern watershed boundary to the northern LRGV County limits, and from the **Starr County border** to the **Laguna Madre**.

2- Hidalgo/Willacy Floodway Watershed Protection Plan - Includes region **above the Arroyo Colorado** to the **south** watershed boundary of the **Raymondville Drain**, and from the **Starr County border** to the **Laguna Madre**

3- USIBWC Pilot Channel/Floodway Watershed Protection Plan - From the Rio Grande River region, including **regions not included** in the Arroyo watershed, along the Rio Grande River continuing **north** and then **east** to the **Laguna Madre**.

Thanks