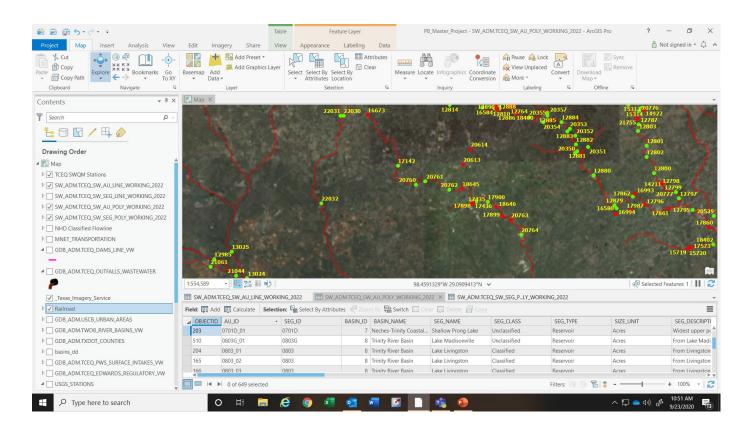
Summary of Changes to Spatial Information for SWQM Segments and Assessment Units (AUs)

Surface Water Quality Assessment Advisory Work Group (SWQAAWG)

Pat Bohannon SWQM Team November 17, 2020



Attribute fields in the Segment and AU layers

SEG ID BASIN ID BASIN NAME SEG NAME SEG CLASS SEG TYPE SIZE SIZE UNIT **SEG DESCRIPTION** IR YEAR RETIRED IND RETIRED COMMENTS TXT IMP AQUATIC LIFE IMP GENERAL IMP FISH CONSUMPTION IMP PWS IMP OYSTER_WATERS IMP REC BEACHES **IMPAIRED** FIRST IR YEAR

AU ID SEG ID BASIN ID BASIN NAME SEG NAME SEG CLASS SEG TYPE SIZE UNIT SEG DESCRIPTION AU SIZE AU LOCATION DESCRIPTION AU TYPE AU STREAM FLOW TYPE AU STREAM FLOW TYPE SOURCE AU STREAM FLOW TYPE NOTES AU DESCRIPTION SOURCE ALU DESIGNATION ALU DESIGNATION SOURCE AU FISHERY TYPE APPENDIX_D_FLG APPENDIX E FLG TABLE 5 FLG **AU NOTES** AU BED SLOPE AU STREAM ORDER AU_STREAM_ORDER_NOTES AU BOUNDARY CHANGE PREVIOUS AU ID IR YEAR RETIRED_IND RETIRED_COMMENTS_TXT IMP AQUATIC LIFE IMP CONTACT REC IMP GENERAL IMP_FISH_CONSUMPTION IMP PWS IMP_OYSTER_WATERS IMP REC BEACHES **IMPAIRED** FIRST_IR_YEAR

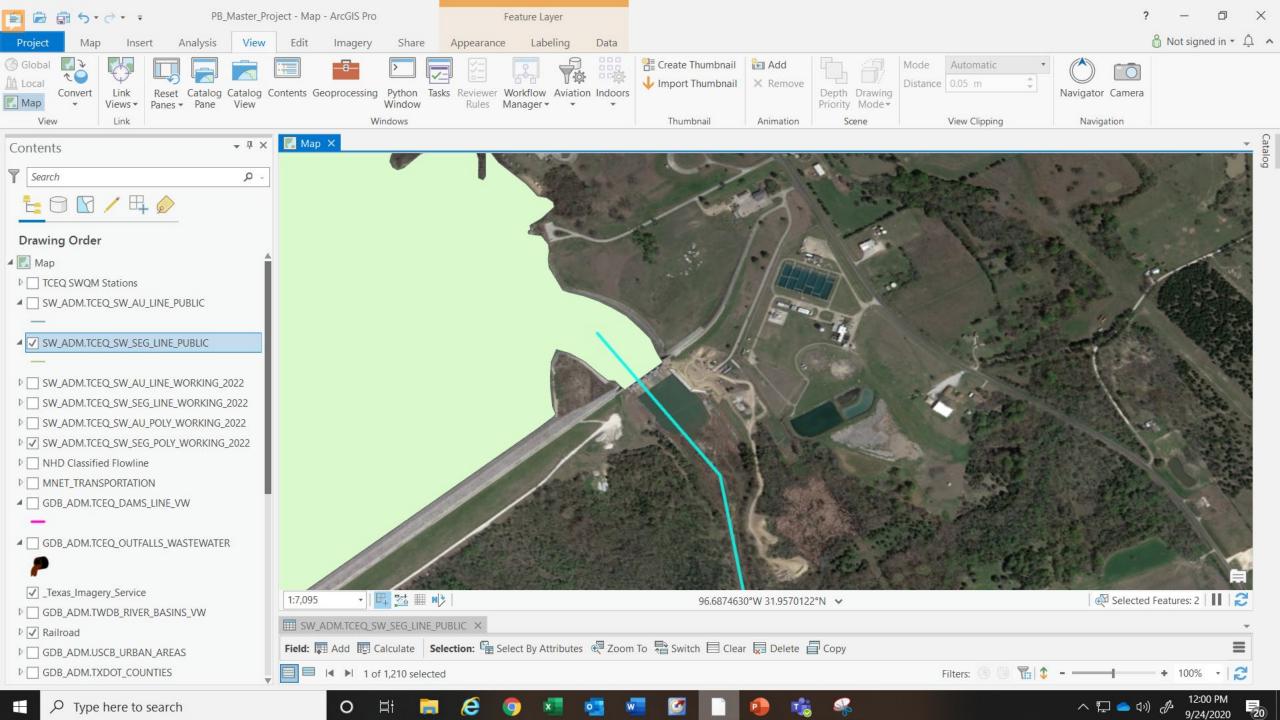
How are Segment and AU spatial data used?

- Integrated Report
 - Various summary reports
 - SAS Assessment Tool
- Data viewers
 - SWQM Segments viewer
 - SWQMIS Data viewer
 - Coordinated Monitoring Schedule
- Map creation
 - Presentations
- TCEQ internal staff
 - Other program areas
 - Agency website
- External entities
 - River authorities
 - Other state agencies

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oordinated Monitoring Schedule		River Basin: 2 🦚 🛗 🧾											Login								
Description (key word) Station		1 2 3	1			201 202 203		Submitting Entity GS RR WC +			₹ _	Collecting GS Entity NM				Monitoring Type					
Site Description	Station ID	Waterbody ID	Region	SE	CE	МТ	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Fish Tissue	Field	Comments	
Site Description	Station ID	Waterbody ID	Region	SE	CE	МТ	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Fish Tissue	Field	Comments	
Segment 201 Lower Red River Map																					
RED RIVER BRIDGE AT SOUTHBOUND US 59 NEAR INDEX ARKANSAS 1.22 KM NORTH OF FM 2320/US 59 INTERSECTION ON TEXAS SHORE SIDE Map	10123	0201	5	WC	FO	RT									4	4	4		4	USGS ID 07337000 F Parameter (Temp)	
MUD CREEK AT US 259 3.1 KM NORTH OF DE KALB Map BARKMAN CREEK 35 M EAST OF RICHMOND RD OVERPASS/FM 559 0.97 KM NW OF FM	15319	0201A	5	RR		RT									4	4	4		4		
559/HOLLY CREEK ROAD INTERSECTION 11.5 KM NW OF TEXARKANA Map	15059	0201D	5	RR	RR	RI									4	4	4		4		
Segment 202 Red River Below Lake Texoma Map																					
RED RIVER DOWNSTREAM LAKE TEXOMA AT US 259 9.3 KM NORTH OF US 259/FM 114 INTERSECTION 21 KM NORTH OF DEKALB Map	10125	0202	5	GS	GS	RT											365			USGS ID 07336820	
RED RIVER DOWNSTREAM LAKE TEXOMA AT US 259 9.3 KM NORTH OF US 259/FM 114 INTERSECTION 21 KM NORTH OF DEKALB Map	10125	0202	5	RR	RR	RT									4	4	4		4		
RED RIVER AT NORTHBOUND US 271 IN ARTHUR CITY 0.75 KM NORTH OF FM 197/US 271 INTERSECTION Map	10126	0202	5	GS	GS	RT											365			USGS ID 07335500	
RED RIVER AT NORTHBOUND US 271 IN ARTHUR CITY 0.75 KM NORTH OF FM 197/US 271 INTERSECTION Map	10126	0202	5	RR	RR	RT									4	4	4		4		
RED RIVER AT SH 78 355 M NORTHWEST OF FANNIN CR 200/SH 78 INTERSECTION AT TEXAS STATE LINE 10 KM NORTHEAST OF CITY OF RAVENNA Map	10127	0202	4	RR	RR	RT									4	4			4		
RED RIVER 550 M DOWNSTREAM FROM DENISON DAM POWERHOUSE 7.25 KM NORTH OF DENISON 660 M UPSTREAM OF SHAWNEE CREEK Map	13684	0202	4	GS	GS	RT											365			USGS ID 07331600	
RED RIVER AT SH 37 0.30 KM NORTH OF SH 37/FM 195 INTERSECTION 27.75 KM NORTH OF CLARKSVILLE Map	15779	0202	5	RR	RR	RT									4	4	4		4		
RED RIVER AT US 75 NORTH OF DENISON Map	21031	0202	4	RR	RR	RT									4	4	4		4	Flow measurement fr gauge at 13684 per F	
BOIS D ARC CREEK AT FM 898/OAK HILL ROAD 1.4 KM NORTHEAST OF CITY OF WHITEWRIGHT ${\rm Map}$	15036	0202A	4	RR	RR	RT									4	4	4		4		
BOIS D ARC CREEK AT FM 1396 NORTHWEST OF HONEY GROVE Map	20167	0202A	4	GS		RT											365		365	USGS ID 07332620 F Parameter (DO/pH/C	
BOIS D ARC CREEK AT FM 1396 NORTHWEST OF HONEY GROVE Map	20167	0202A	4	RR	NM	RT					12				12	12	12		12		
BOIS D ARC CREEK AT FM 409 NORTHWEST OF HONEY GROVE Map	21029	0202A	4	GS		RT											365		364	USGS ID 07332622 F Parameter (DO/pH/C	
BOIS D ARC CREEK AT FM 409 NORTHWEST OF HONEY GROVE Map	21029	0202A	4	RR	NM	RT					12				12	12	12		12		
BOIS D ARC CREEK AT FM 2945 IN FANNIN COUNTY Map	21706	0202A	4	RR	NM	RT					12				12	12	12		12		
BOIS D ARC CREEK AT SH 56 WEST OF DODD CITY Map	22105	0202A	4	RR	NM	RT					12				12	12	12		12		
CORNELIASON CREEK AT FM 1897/OLE AMBROSE ROAD 0.27 KM NORTH OF FM 1897/US 69 INTERSECTION 0.9 KM NORTH OF CITY OF BELLS Map	10117	0202B	4	RR	RR	RT									4	4	4		4		
PECAN BAYOU AT BLANTON CREEK CEMETERY ROAD/RED RIVER CR 2235 11.65 KM NORTH OF CITY OF BAGWELL Map	14472	0202C	5	RR	RR	RT									4	4	4		4		
																					
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Reasons for revisions to the GIS layers

- EPA approval of Texas Surface Water Quality Standards (TSWQS)
- Creation of new or revisions of Segments and AUs
- Correct spatial or attribute errors
- Consistency with TMDLs or TSWQS
- Requested by data providers
- Hydromodification of Segments or AUs



Spatial revisions for the 2022 IR

- (19) new segments
 - (4) due to hydromodification in Fort Bend County
 - (3) split to create an "above tidal" portion
 - (3) to accommodate new data
 - (2) recently-approved TSWQS Appendix D water bodies (Unclassified segments)
 - (2) recently-approved TSWQS Appendix A segments
 - (4) based on the new Appendix A segments and D water bodies (Unclassified segments)
 - (1) Segment 0615 Angelina River/Sam Rayburn Reservoir changed from a Polygon to Line