Victorian Water Quality Analysis 2022
Time Series Report

VICTORIA
State Government
Energy,
Environment
and Climate Action

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Paul Wilson, Department of Energy, Environment and Climate Action

Photo credit

Erskine River, 2010. © Alison Pouliot

We acknowledge and respect Victorian Traditional Owners as the original custodians of Victoria's land and waters, their unique ability to care for Country and deep spiritual connection to it.

We honour Elders past and present whose knowledge and wisdom has ensured the continuation of culture and traditional practices.

DEECA is committed to genuinely partnering with Victorian Traditional Owners and Victoria's Aboriginal community to progress their aspirations.

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Accessibility

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Contents

Introduction

This report is part of a series delivered by the Victorian Department of Energy, Environment and Climate Action (DEECA), under s. 22 of the Water Act (1989).

The Victorian Water Quality Analysis 2022 answers key questions related to surface water quality they are:

Overarching questions

1. What is the overall status of water quality in Victoria?
2. How and why does water quality vary across Victoria?
3. How and why has water quality varied over recent decades?

Targeted questions

4. How has, and how will, long-term climate variability and change impact water quality?
5. How do bushfires affect water quality?
6. How are BGA blooms changing?
7. How can continuous water quality data be used to understand water quality events?

This report complements the Victorian Water Quality Analysis 2022 Technical Report, by presenting time series plots of water quality and streamflow at 137 sites used in the core analysis of the Victorian Water Quality Report 2022 (Chapters 3 and 4).

These time series plots provide additional detail, and visual reference to the findings of the Technical Report.

Description of water quality time series plots

Presentation of water quality time series for each site

For each site, individual sample values, as well as attainment of the Environmental Reference Standard ERS) objectives for water quality are presented across two multi-panel graphics.

Part 1 – Individual sample values

The first plot presents, where available, the values of six selected water selected quality constituents measured in all samples collected during the period 1991-2021 (inclusive), in addition to the mean flow on the day of sampling. From top to bottom in each plot, the panels present the following data:

- Average streamflow (Q) on the day of sampling, expressed in units of megalitres per day (ML/day) plotted with logarithmic scale on the y-axis.
- Electrical Conductivity (EC), a measurement of salinity, expressed in units of micro siemens per centimetre (µS/cm)
- Turbidity, a measurement of the light scattering characteristics, expressed in Nephelometric Turbidity Unit (NTU).
- Total nitrogen (TN), expressed in units of milligrams of nitrogen per litre (mg/L)
- Total nitrogen (TN), expressed in units of milligrams of phosphorus per litre (mg/L)
- pH, a measure of acidity/alkalinity, expressed in pH units.
- Dissolved Oxygen (DO), expressed in units of milligrams of dissolved oxygen per litre (mg/L).

The median value of each constituent within each calendar year is also presented.

Part 2 – Attainment of the water quality ERS

This plot presents attainment of the Environmental Reference Standard (ERS) objectives at the site, assessed for each calendar year during the period 1991-2021, for the six selected water quality constituents. ERS attainment is assessed by comparing a calculated statistic (either the 75^{th} or 25^{th} percentile value) with an objective value. Calculated percentiles are only assessed against the ERS objective during a calendar

year if at least 11 out of 12 monthly samples were available. If fewer than 11 samples were collected, calculated percentiles are not displayed. Total discharge in each calendar year is also presented.

From top to bottom in each plot, the panels present the following data:

- Total streamflow in each calendar year, expressed in gigalitres per year (GL/year). Total streamflow is presented if at least 90% of all daily flow observations are available for that year.
- The annual 75th percentile of electrical conductivity measurements. 75th percentile values that lie below the ERS objective attain of the objective.
- Annual 75th percentile of turbidity measurements. 75th percentile values that lie below the ERS objective attain of the objective.
- Annual 75th percentile of total phosphorus measurements. 75th percentile values that lie below the ERS objective attain of the objective.
- Annual 75th percentile of total nitrogen measurements. 75th percentile values that lie below the ERS objective attain of the objective.
- Annual 25th and 75th percentile of pH measurements. The ERS is attained if the 25th percentile lies above the lower ERS objective, and the 75th percentile lies below the upper ERS objective.
- Annual 25th percentile of dissolved oxygen values, expressed as a percent of the saturation concentration. The ERS is attained if the 25th percentile lies above the ERS objective.

The ERS objective value for each parameter is indicated by the red dashed line. If a calculated percentile lies within the pink shaded region, this indicates that the ERS objective was not attained for that year.

As sites are not assessed for attainment of the ERS objectives if fewer than 11 samples were collected in a given year, sites with non-perennial flow behaviour may not assessed against the ERS during some years, as samples can only collected when water is present.

In both plots, year labels on the x-axis are aligned with July 1st, as are the calculated summary statistics (annual median, 25th and 75th percentile, and total streamflow).

Water quality monitoring sites

Figure 1: Location and 6-digit site IDs of 137 sites presented in this report. Full site names corresponding to 6-digit site IDs provided in Table 1. The numbers on the dots indicate the index of sites, which are detailed in Table 1.

Table 1: List of the 137 sites presented in this report, listed by basin, with rivers listed east to west, and upstream to downstream.

Basin	Index	Site ID	Site name
East Gippsland Basin	1	221208	Wingan River @ Wingan Inlet National Park
	2	221201	Cann River (West Branch) @ Weeragua
	3	221211	Combienbar River @ Combienbar
	4	221212	Bemm River @ Princes Highway
Snowy Basin	5	222202	Brodribb River @ Sardine Creek
	6	222217	Rodger River @ Jacksons Crossing
Tambo Basin	7	223202	Tambo River @ Swifts Creek
	8	223214	Tambo River @ U/S of Smith Creek
	9	223204	Nicholson River @ Deptford
Mitchell Basin	10	224203	Mitchell River @ Glenaladale
	11	224213	Dargo River @ Lower Dargo Road
	12	224206	Wonnangatta River @ Crooked River
Thomson Basin	13	225201	Avon River @ Stratford
	14	225114	Thomson River @ D/S Whitelaws Creek
	15	225210	Thomson River @ The Narrows
Latrobe Basin	16	226228	Latrobe River @ Rosedale (Main Stream)
	17	226226	Tanjil River @ Tanjil Junction
South Gippsland Basin	18	227200	Tarra River @ Yarram
	19	227211	Agnes River @ Toora
	20	227237	Franklin River @ Toora
	21	227202	Tarwin River @ Meeniyan
	22	227231	Bass River @ Mcgrath Road
Bunyip Basin	23	228248	Tarago River @ Labertouche (Morrisons Road)
	24	228217	Toomuc Creek @ Pakenham
	25	228250	Watsons Creek @ Somerville
Yarra Basin	26	229144	Watts River @ Healesville Racecourse
	27	229232	Yarra River @ Healesville (Maxwell Bridge)
	28	229252	Brushy Creek @ Lower Homestead Road Wonga Park
	29	229608	Watsons Creek @ Henley Road
	30	229250	Andersons Creek @ Warrandyte (Everard Drive)
	31	229229	Koonung Creek @ Bulleen
	32	229231	Gardiners Creek @ Glenferrie Road Hawthorn
	33	229643	Moonee Ponds Creek @ Racecourse Road, Flemington
Maribyrnong Basin	34	230105	Maribyrnong River @ Keilor (Brimbank Park Ford)
	35	230235	Maribyrnong River @ Avondale Heights (Canning St. Ford)
	36	230232	Deep Creek @ Bolinda
	37	230205	Deep Creek @ Bulla (D/S of Emu Creek Junction)

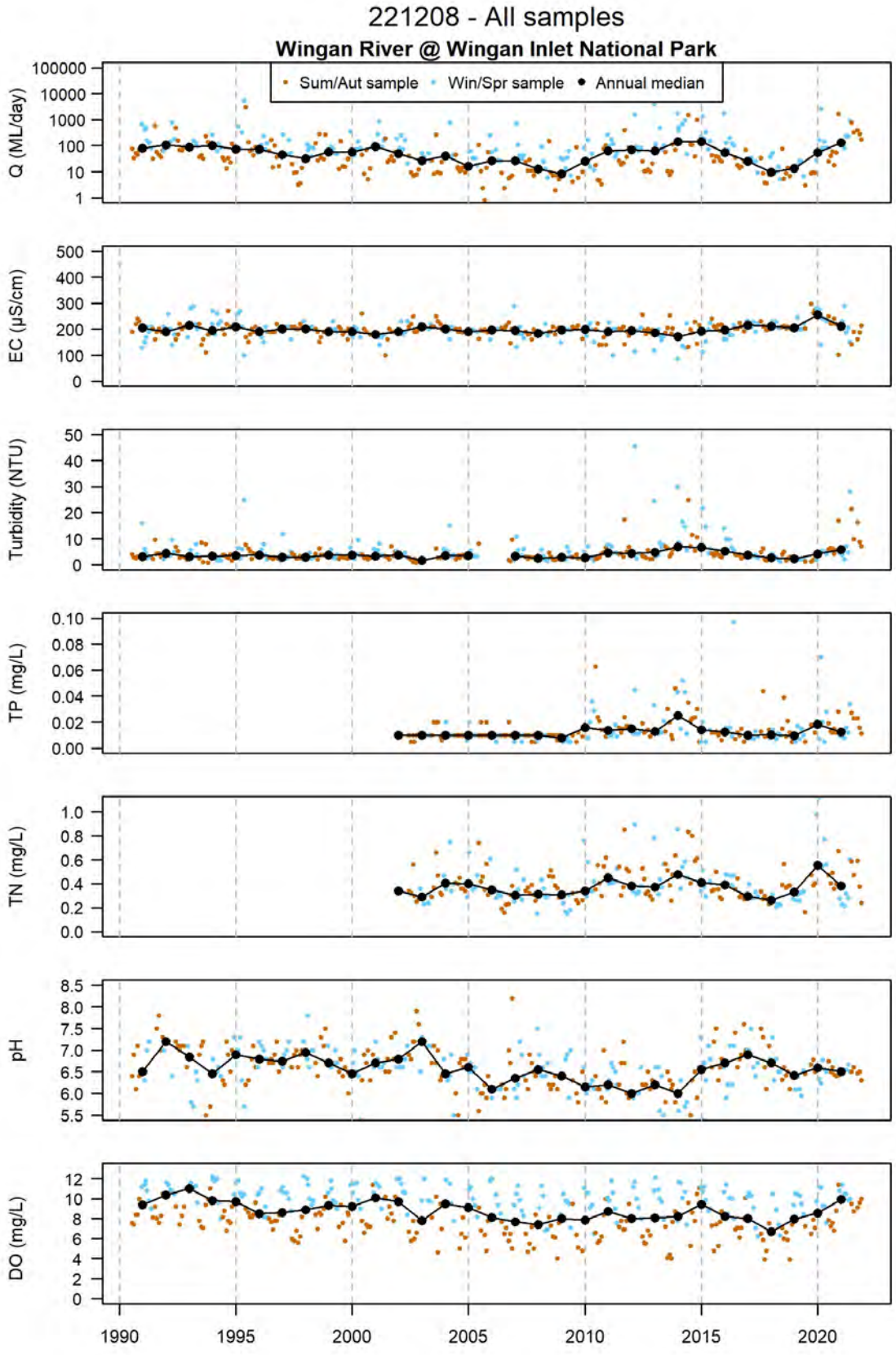
Basin	Index	Site ID	Site name
	38	230209	Barringo Creek @ Barringo (U/S of Diversion)
Werribee Basin	39	231108	Skeleton Creek At Point Cook Road Laverton
	40	231204	Werribee River @ Werribee (U/S Riversdale Rd. Weir)
	41	231231	Toolern Creek @ Melton South
Moorabool Basin	42	232200	Little River @ Little River (You Yangs Road)
	43	232202	Moorabool River @ Batesford
	44	232204	Moorabool River @ Morrisons
	45	232210	Moorabool River West Branch @ Lal Lal
Barwon Basin	46	233200	Barwon River @ Pollocksford
	47	233214	Barwon River East Branch @ Forrest
	48	233218	Barwon River @ Inverleigh
	49	233224	Barwon River @ Ricketts Marsh
	50	233215	Leigh River @ Mount Mercer
	51	233228	Boundary Creek @ Yeodene
Lake Corangamite	52	234201	Woady Yaloak River @ Cressy (Yarima)
	53	234203	Pirron Yallock Creek @ Pirron Yallock (Above H'wy Br.)
Otway Coast Basin	54	235216	Cumberland River @ Lorne
	55	235202	Gellibrand River @ Upper Gellibrand
	56	235224	Gellibrand River @ Burrupa
	57	235227	Gellibrand River @ Bunkers Hill
	58	235209	Aire River @ Beech Forest
	59	235234	Love Creek @ Gellibrand
	60	235204	Little Aire Creek @ Beech Forest
	61	235205	Arkins Creek West Branch @ Wyelangta
	62	235211	Kennedys Creek @ Kennedys Creek
	63	235237	Scotts Creek @ Curdie (Digneys Bridge)
	64	235203	Curdies River @ Curdie
Hopkins Basin	65	236215	Burrumbeet Creek @ Lake Burrumbeet
	66	236216	Mount Emu Creek @ Taroon (Ayrford Road Bridge)
	67	236209	Hopkins River @ Hopkins Falls
Portland Coast Basin	68	237200	Moyne River @ Toolong
	69	237207	Surry River @ Heathmere
Glenelg Basin	70	238208	Jimmy Creek @ Jimmy Creek
	71	238202	Glenelg River @ Sandford
	72	238205	Glenelg River @ Rocklands Reservoir
	73	238206	Glenelg River @ Dartmoor
	74	238231	Glenelg River @ Big Cord
	75	238204	Wannon River @ Dunkeld
	76	238228	Wannon River @ Henty

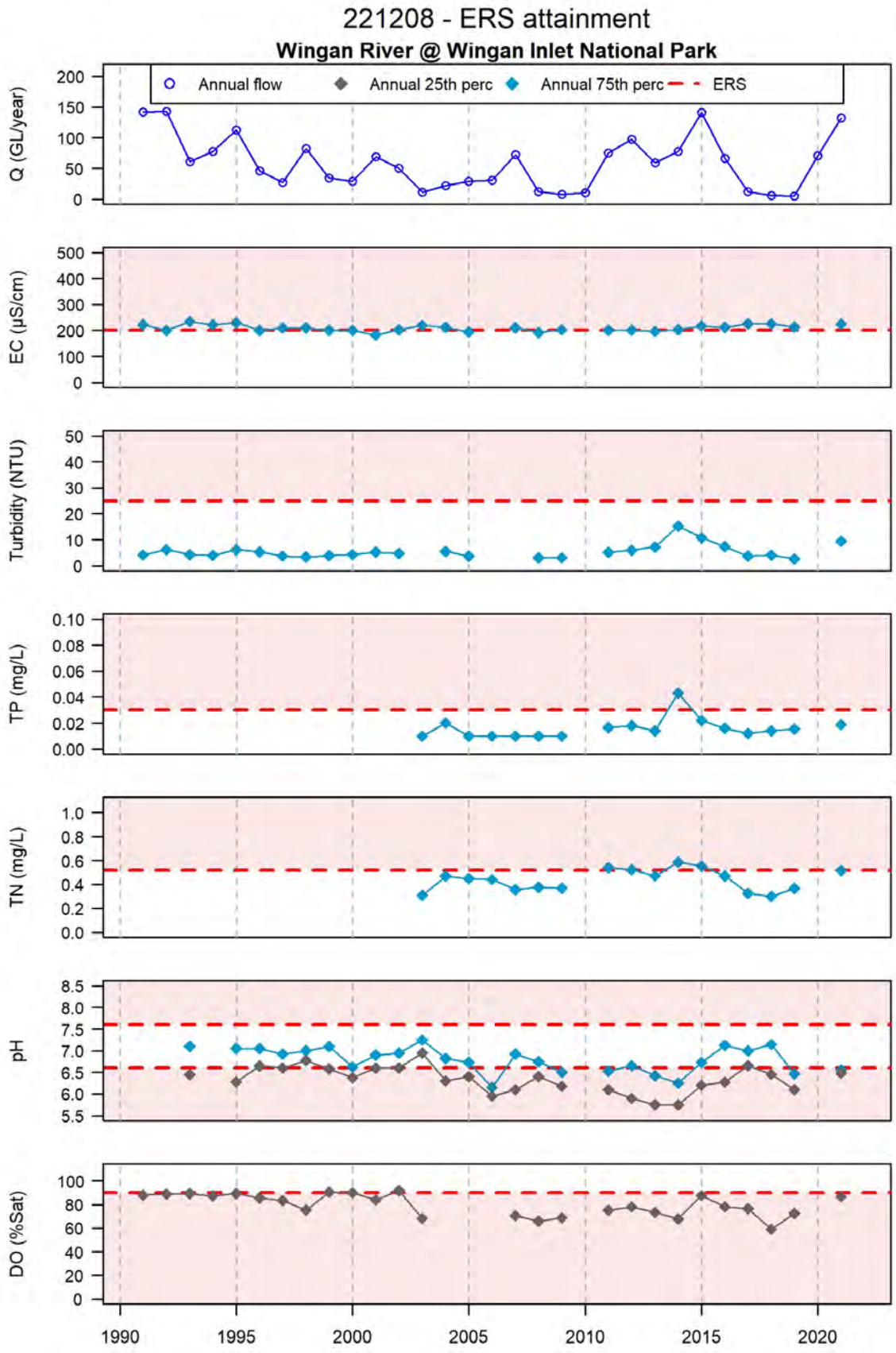
Basin	Index	Site ID	Site name
	77	238223	Wando River @ Wando Vale
Upper Murray Basin	78	401212	Nariel Creek @ Upper Nariel
	79	401215	Morass Creek @ Uplands
	80	401203	Mitta Mitta River @ Hinnomunjie
	81	401204	Mitta Mitta River @ Tallandoon
	82	401211	Mitta Mitta River @ Colemans
	83	401216	Big River @ Jokers Creek
	84	401226	Victoria River @ Victoria Falls
Kiewa Basin	85	402203	Kiewa River @ Mongans Bridge
	86	402205	Kiewa River @ Bandiana
	87	402222	Kiewa River @ Kiewa (Main Stream)
	88	402223	Kiewa River West Branch @ U/S of Offtake
	89	402204	Yackandandah Creek @ Osbornes Flat
Ovens Basin	90	403205	Ovens Rivers @ Bright
	91	403210	Ovens River @ Myrtleford
	92	403230	Ovens River @ Rocky Point
	93	403241	Ovens River @ Peechelba
	94	403244	Ovens River @ Harrietville
	95	403217	Rose River @ Matong North
	96	403223	King River @ Docker Road Bridge
	97	403228	King River @ Lake William Hovell T.G.
	98	403213	Fifteen Mile Creek @ Greta South
Broken Basin	99	404207	Holland Creek @ Kelfeera
	100	404210	Broken Creek @ Rices Weir
	101	404214	Broken Creek @ Katamatite
	102	404216	Broken River @ Goorambat (Casey Weir H. Gauge)
	103	404224	Broken River @ Gowangardie
Goulburn Basin	104	405200	Goulburn River @ Murchison (Mcphee's Rest)
	105	405203	Goulburn River @ Eildon
	106	405204	Goulburn River @ Shepparton
	107	405219	Goulburn River @ Dohertys
	108	405232	Goulburn River @ Mccoys Bridge
	109	405214	Delatite River @ Tonga Bridge
	110	405264	Big River @ D/S of Frenchman Creek Junction
	111	405251	Brankeet Creek @ Ancona
	112	405209	Acheron River @ Taggerty
	113	405234	Seven Creeks @ D/S of Polly Mcquinn Weir
	114	405205	Murrindindi River @ Murrindindi Above Colwells
	115	405231	King Parrot Creek @ Flowerdale

Basin	Index	Site ID	Site name
	116	405212	Sunday Creek @ Tallarook
Campaspe Basin	117	406202	Campaspe River @ Rochester D/S Waranga Western Ch Syphn
	118	406207	Campaspe River @ Eppalock
	119	406213	Campaspe River @ Redesdale
	120	406235	Wild Duck Creek @ U/S of Heathcote-Mia Mia Road
	121	406214	Axe Creek @ Longlea
Loddon Basin	122	407255	Bendigo Creek @ Huntly
	123	407209	Gunbower Creek @ Koondrook
	124	407202	Loddon River @ Kerang
	125	407203	Loddon River @ Laanecoorie
	126	407215	Loddon River @ Newstead
	127	407229	Loddon River @ Serpentine Weir
	128	407214	Creswick Creek @ Clunes
Avoca Basin	129	408200	Avoca River @ Coonooer
	130	408202	Avoca River @ Amphitheatre
	131	408203	Avoca River @ Quambatook
Wimmera Avon Basin	132	415200	Wimmera River @ Horsham
	133	415207	Wimmera River @ Eversley
	134	415246	Wimmera River @ Lochiel Railway Bridge
	135	415257	Richardson River @ Donald
	136	415203	Mount William Creek @ Lake Lonsdale (Tail Gauge)
	137	415251	Mackenzie River @ Mckenzie Creek

Water quality time series by basin

East Gippsland Basin




221208 - ERS attainment
Wingan River @ Wingan Inlet National Park
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
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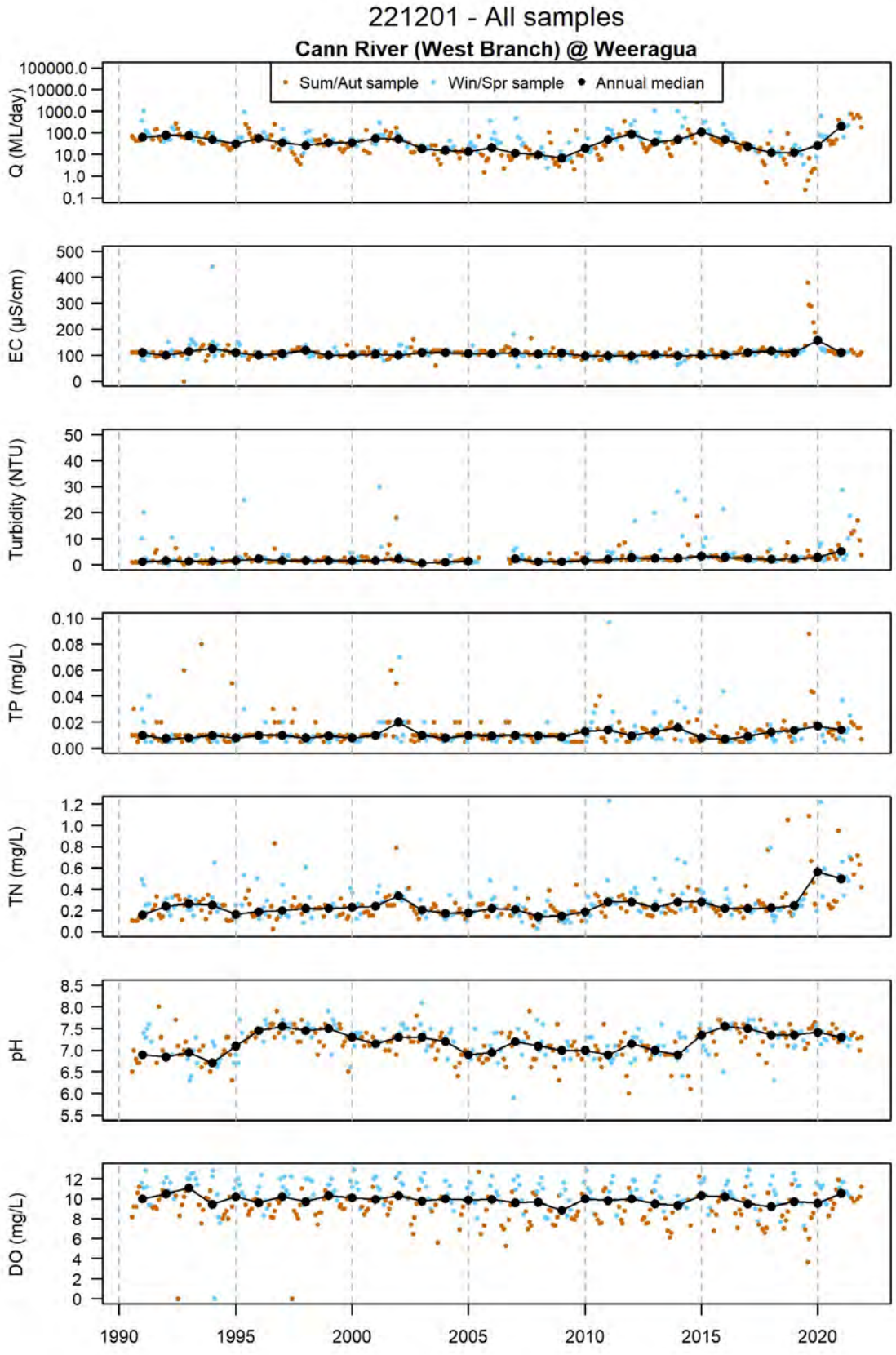
221201 - All samples
Cann River (West Branch) @ Weeragua
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
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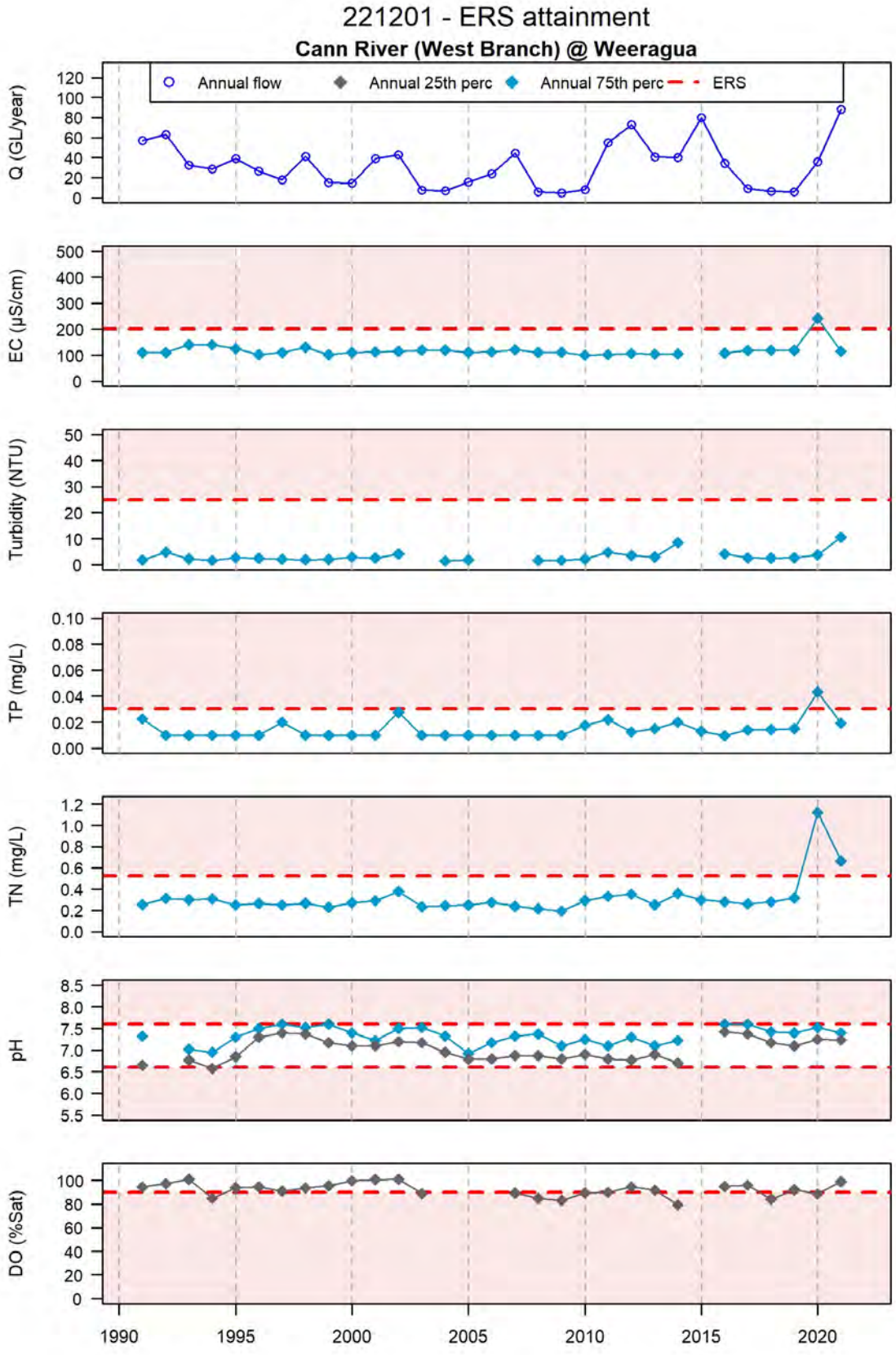
221201 - ERS attainment
Cann River (West Branch) @ Weeragua
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
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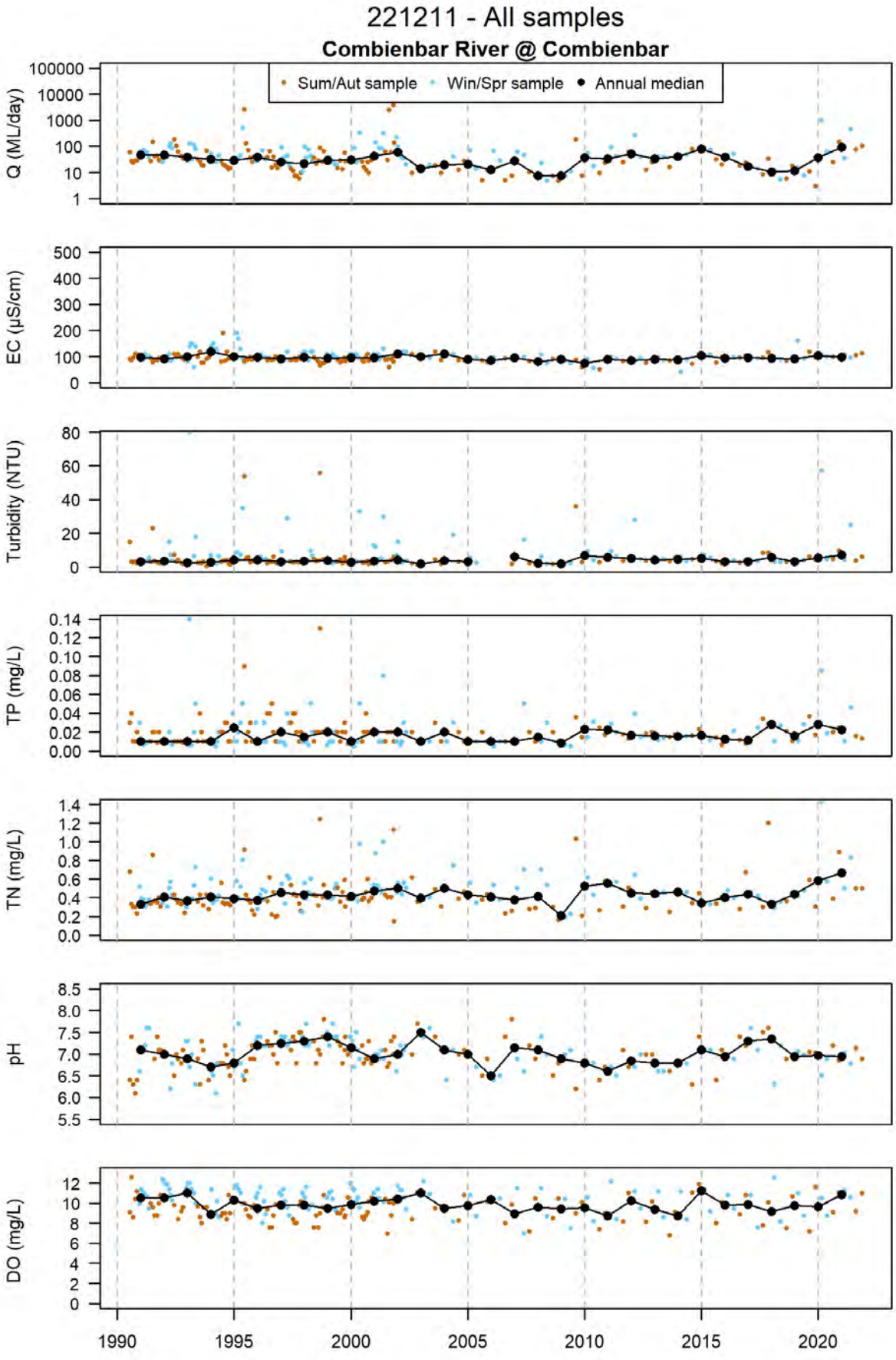
221211 - All samples
Combienbar River @ Combienbar
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
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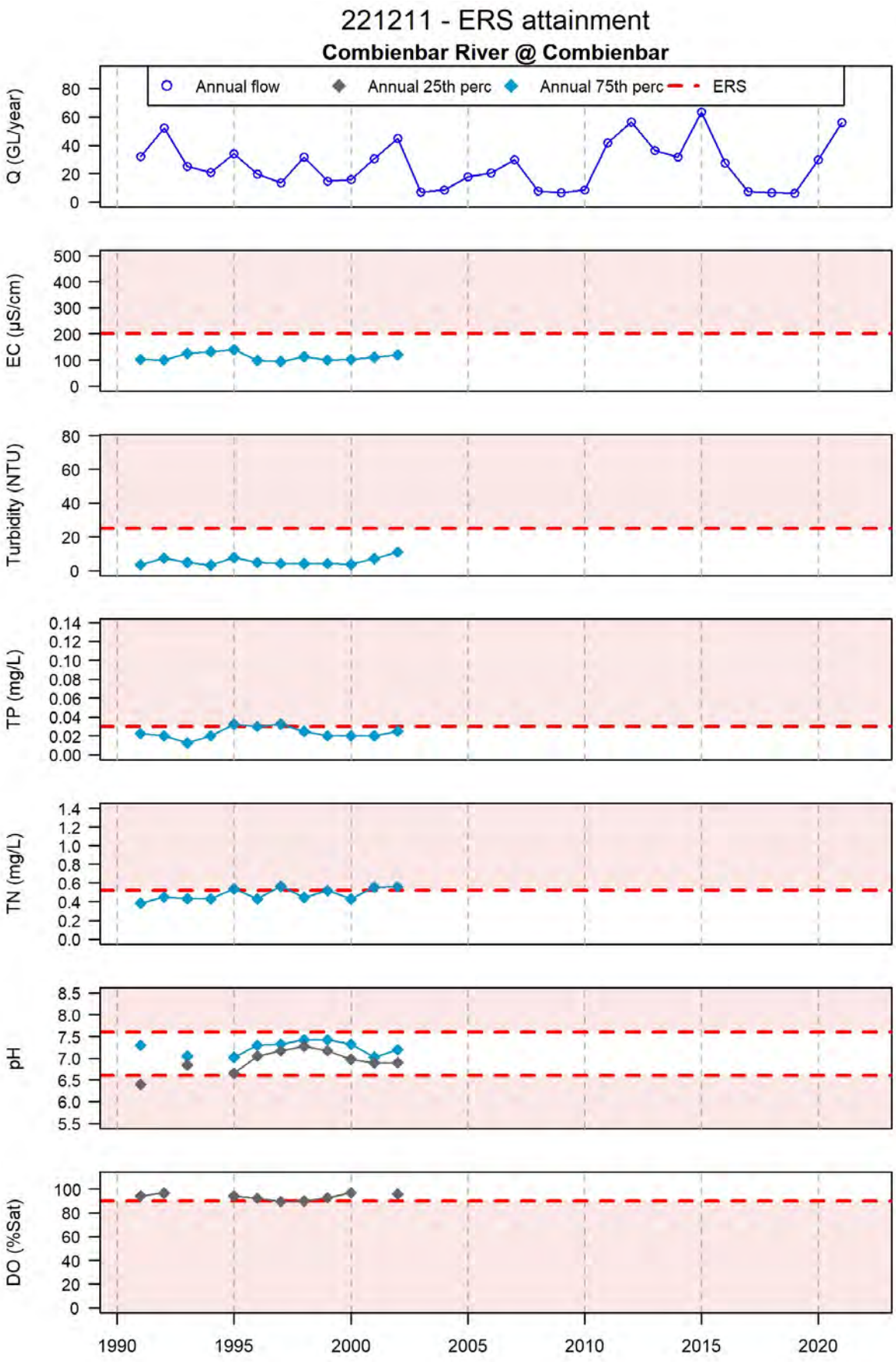
221211 - ERS attainment
Combienbar River @ Combienbar
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
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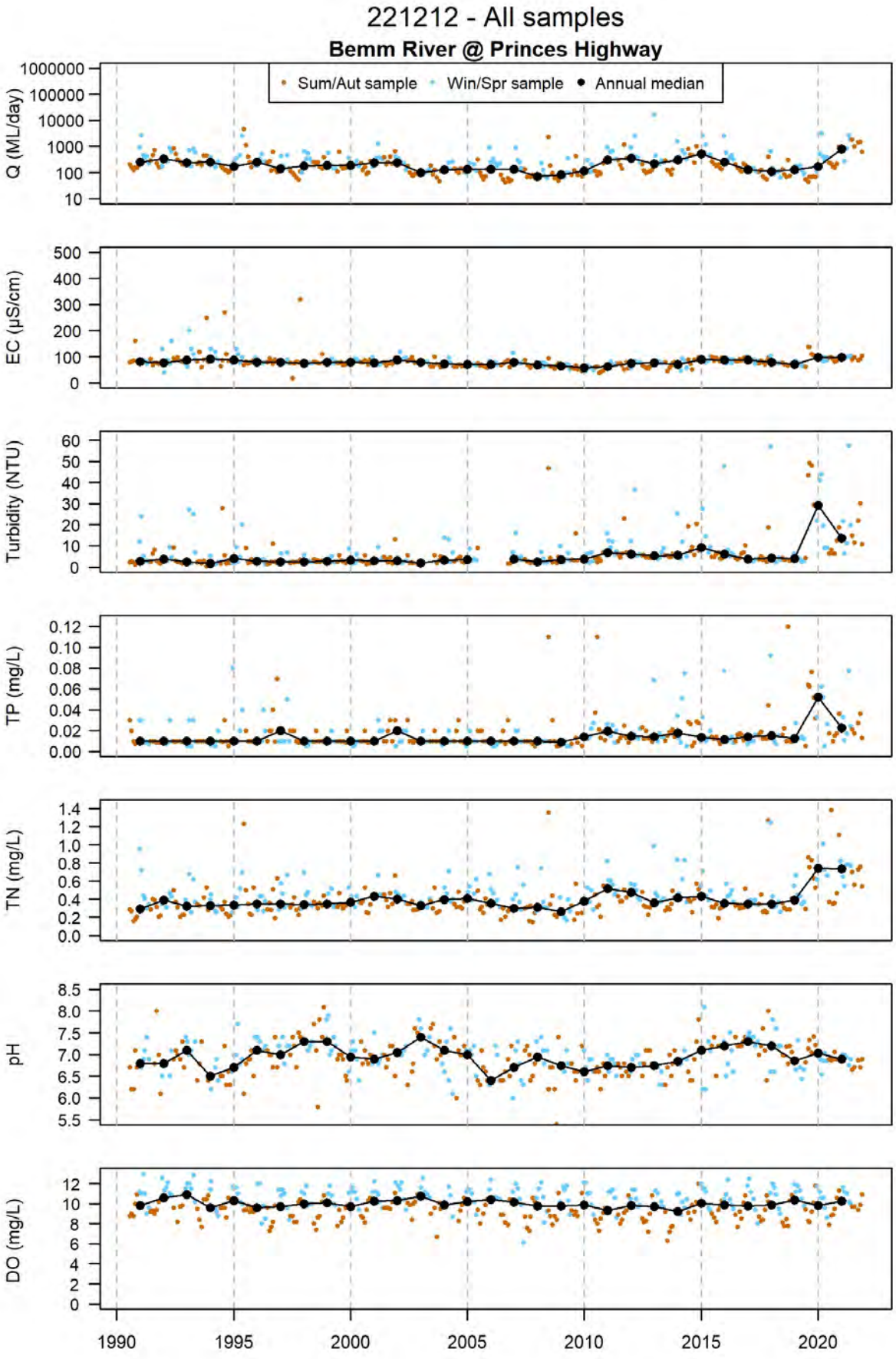
221212 - All samples
Bemm River @ Princes Highway
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
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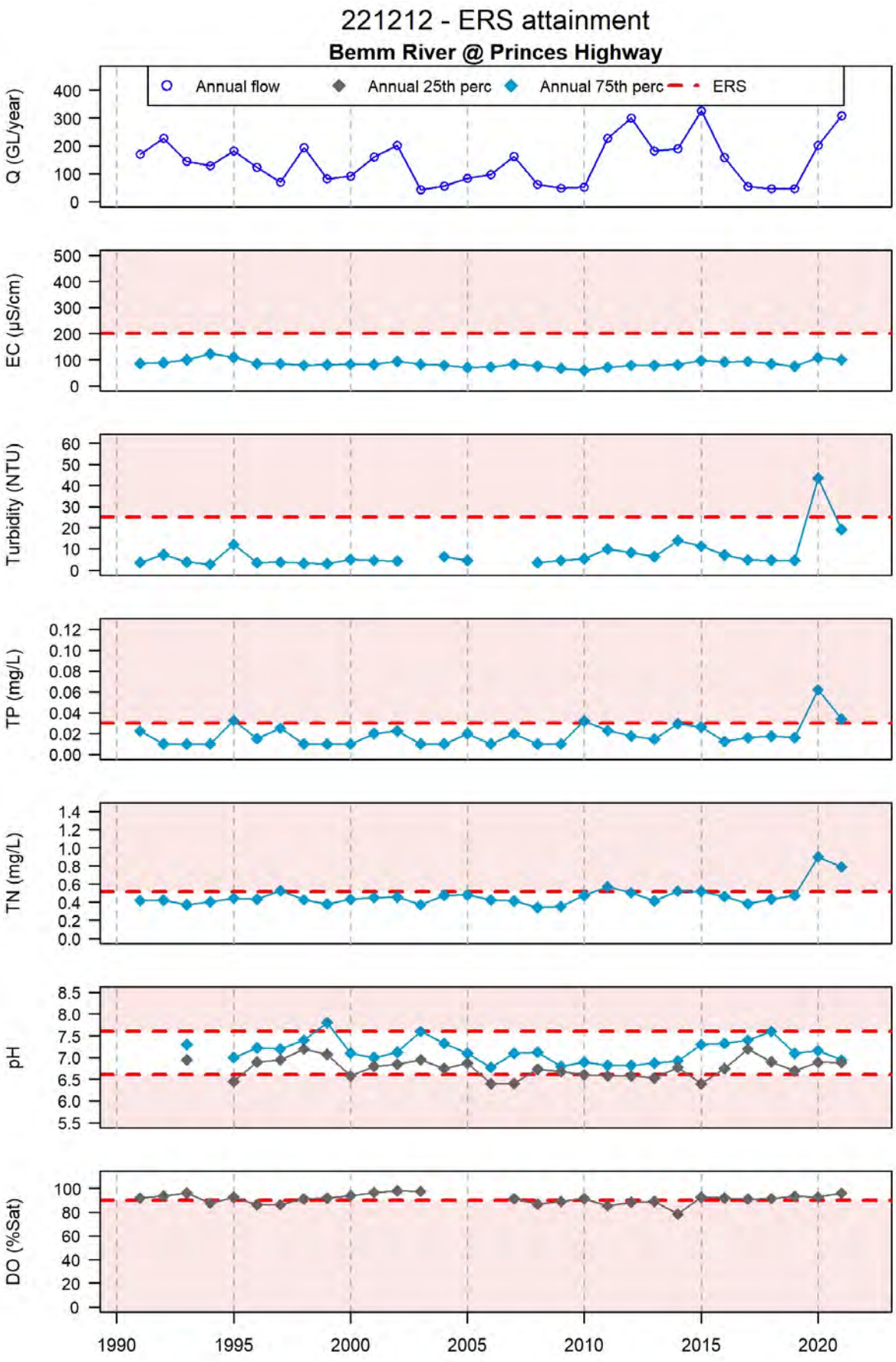
221212 - ERS attainment
Bemm River @ Princes Highway
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
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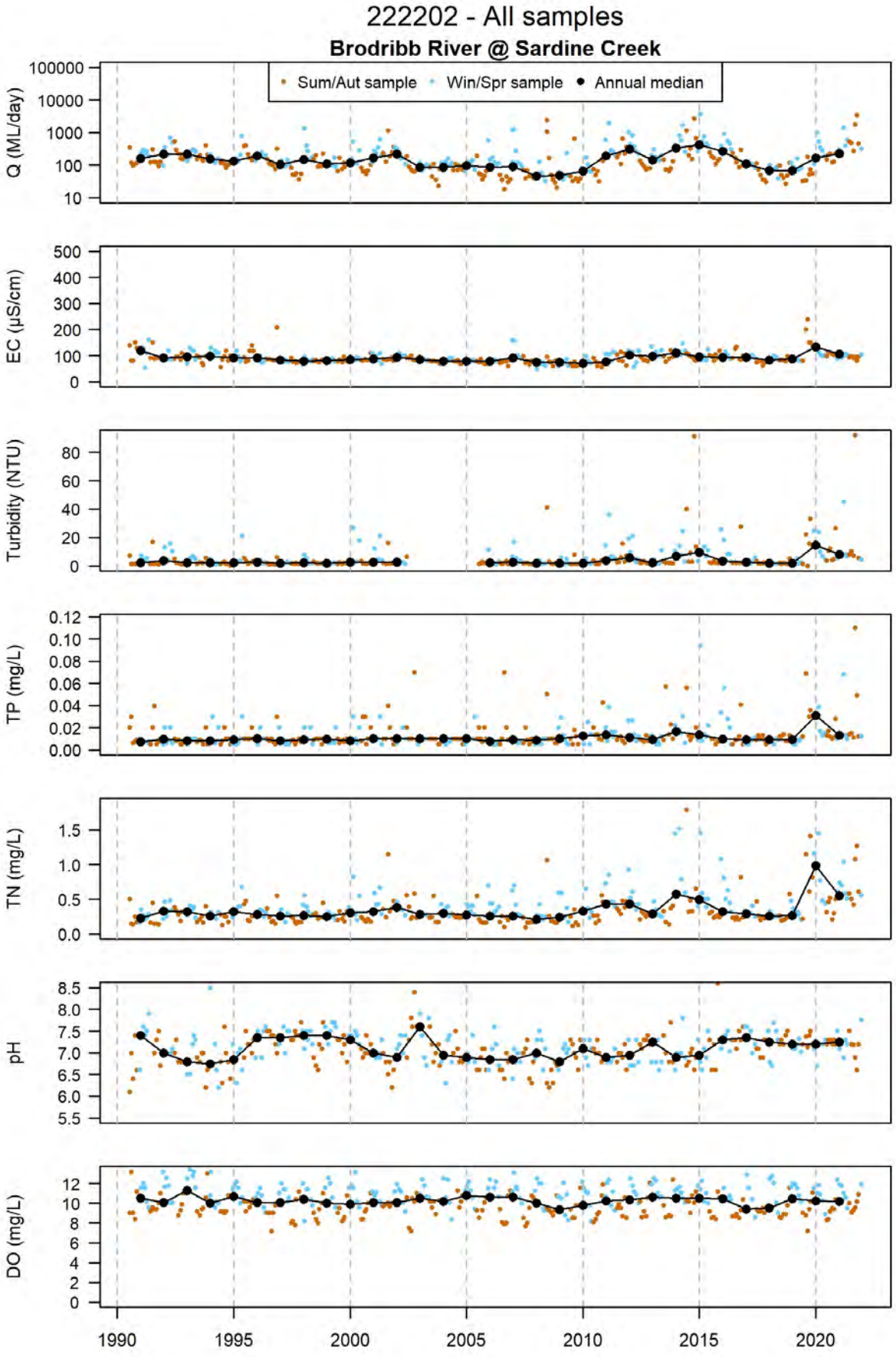
Snowy Basin


222202 - All samples
Brodribb River @ Sardine Creek
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
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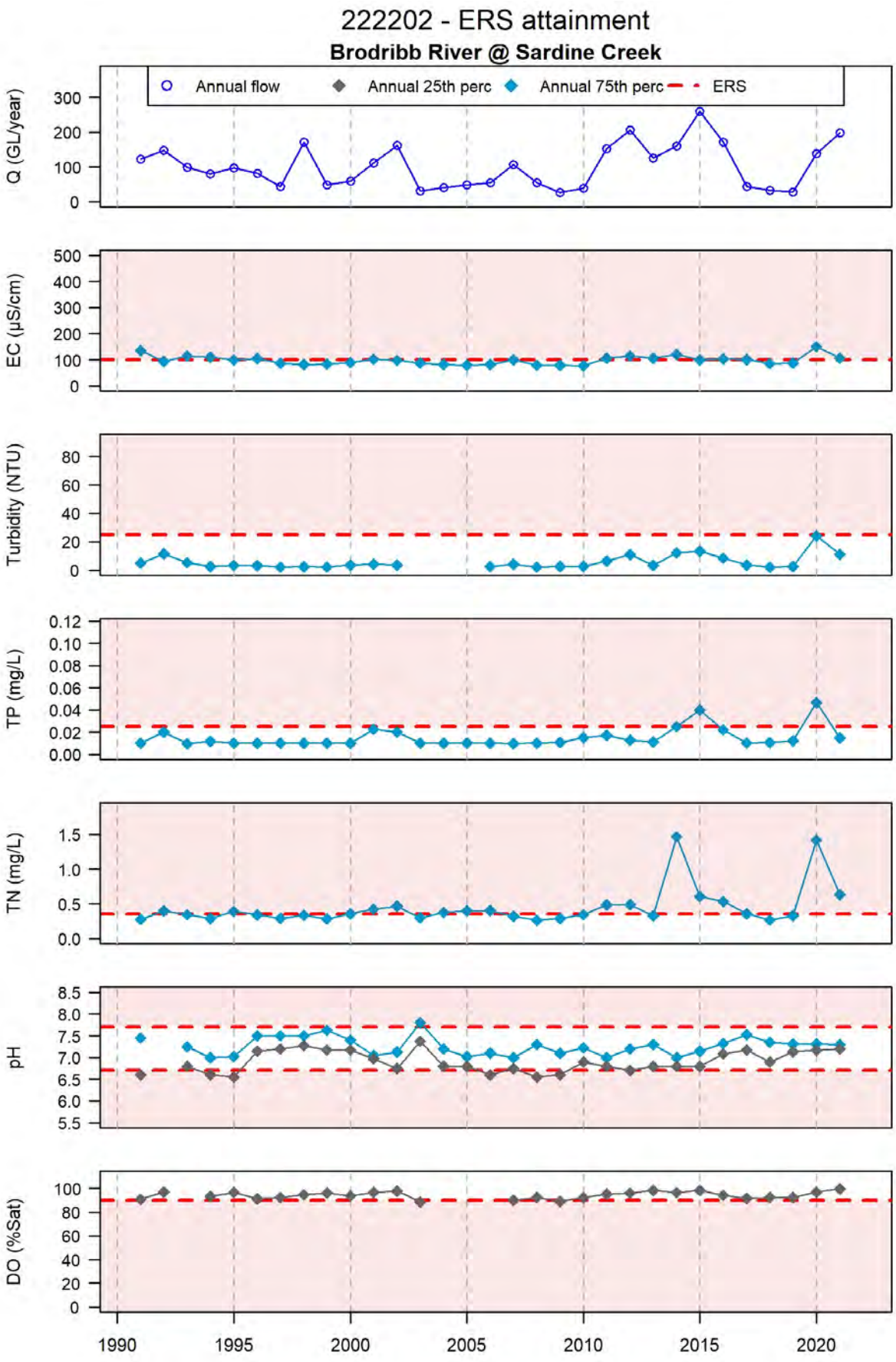
222202 - ERS attainment
Brodribb River @ Sardine Creek
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
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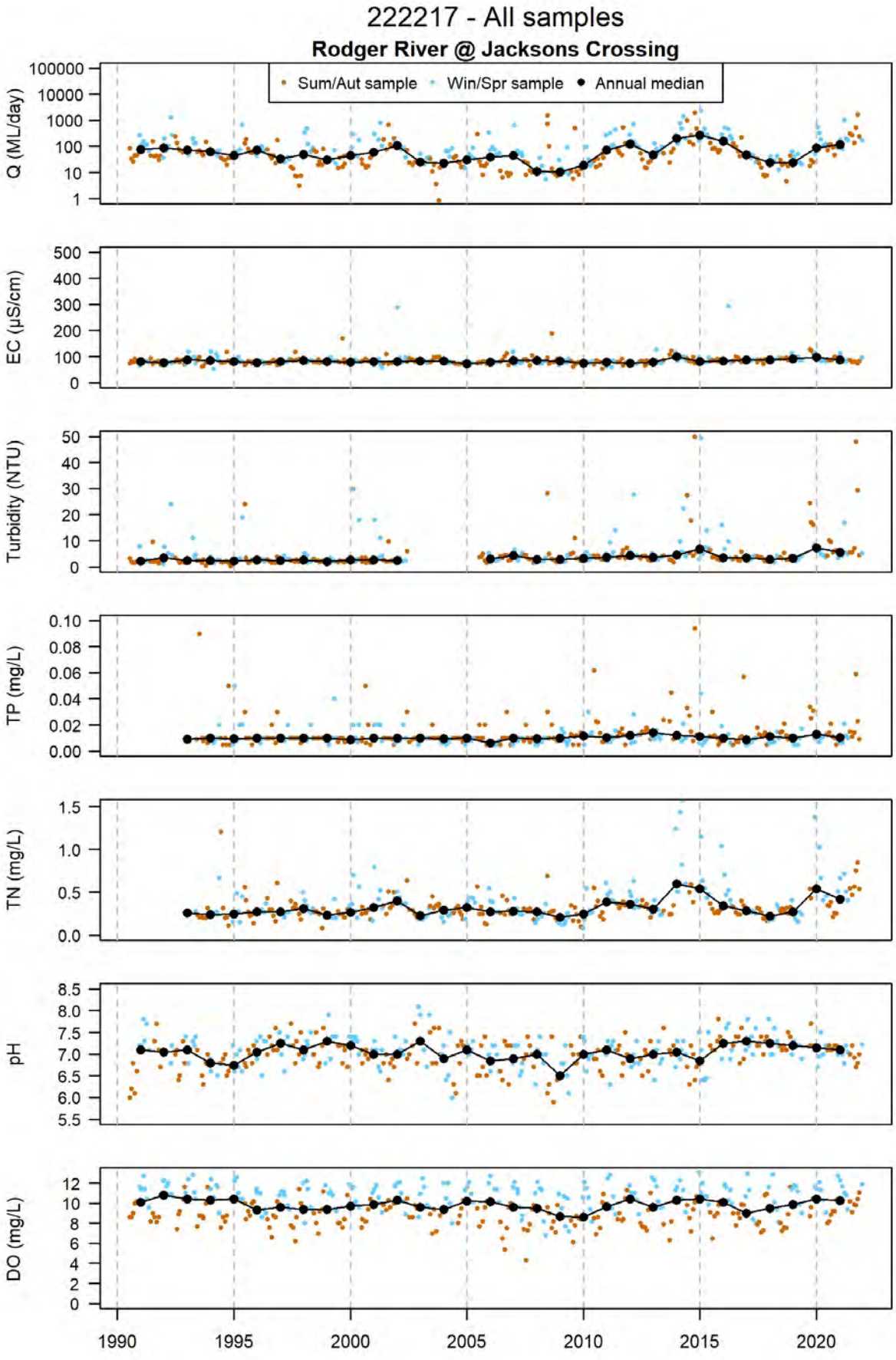
2010
2015
2020


222217 - All samples
Rodger River @ Jacksons Crossing
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
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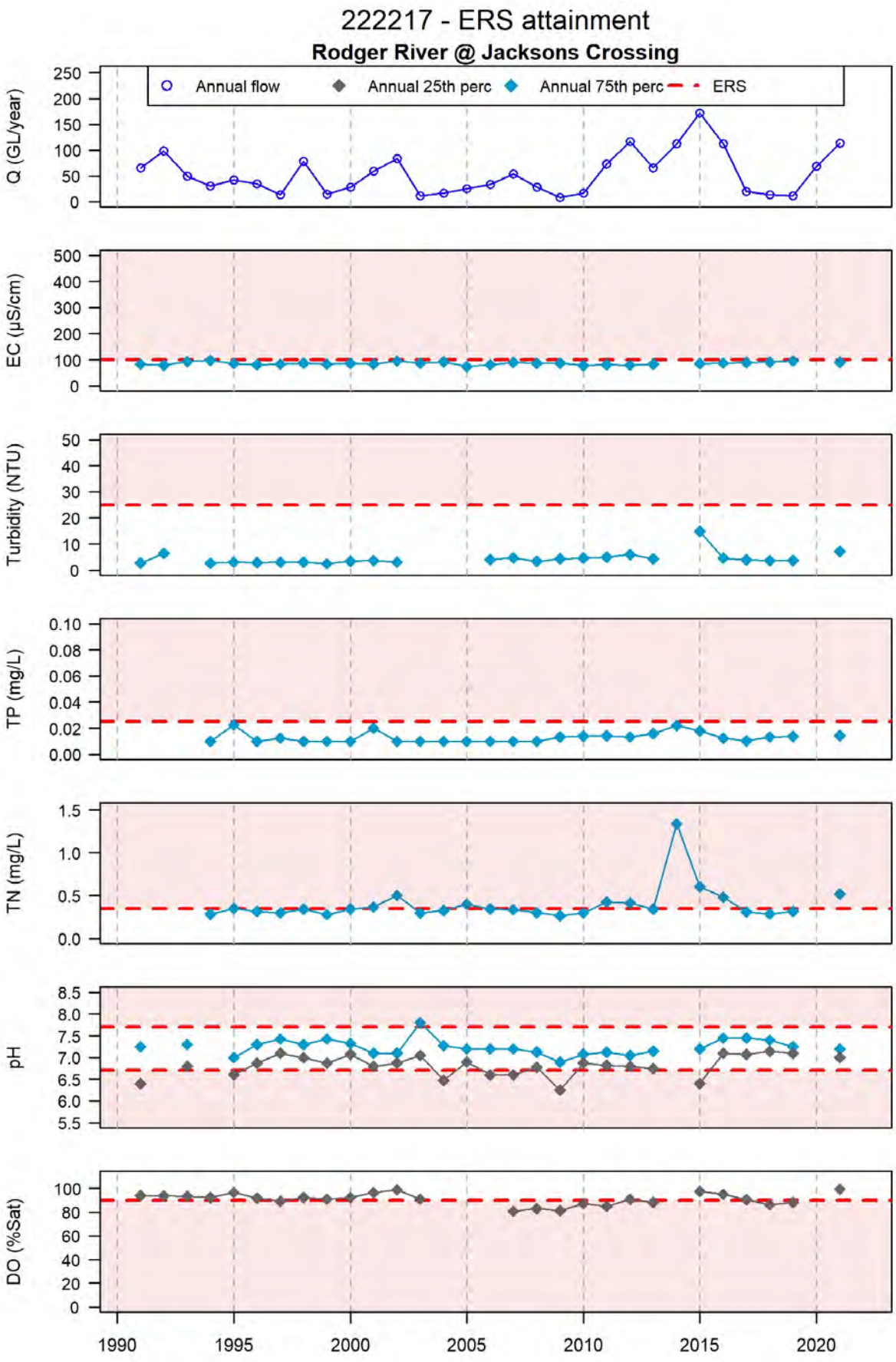
222217 - ERS attainment
Rodger River @ Jacksons Crossing
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
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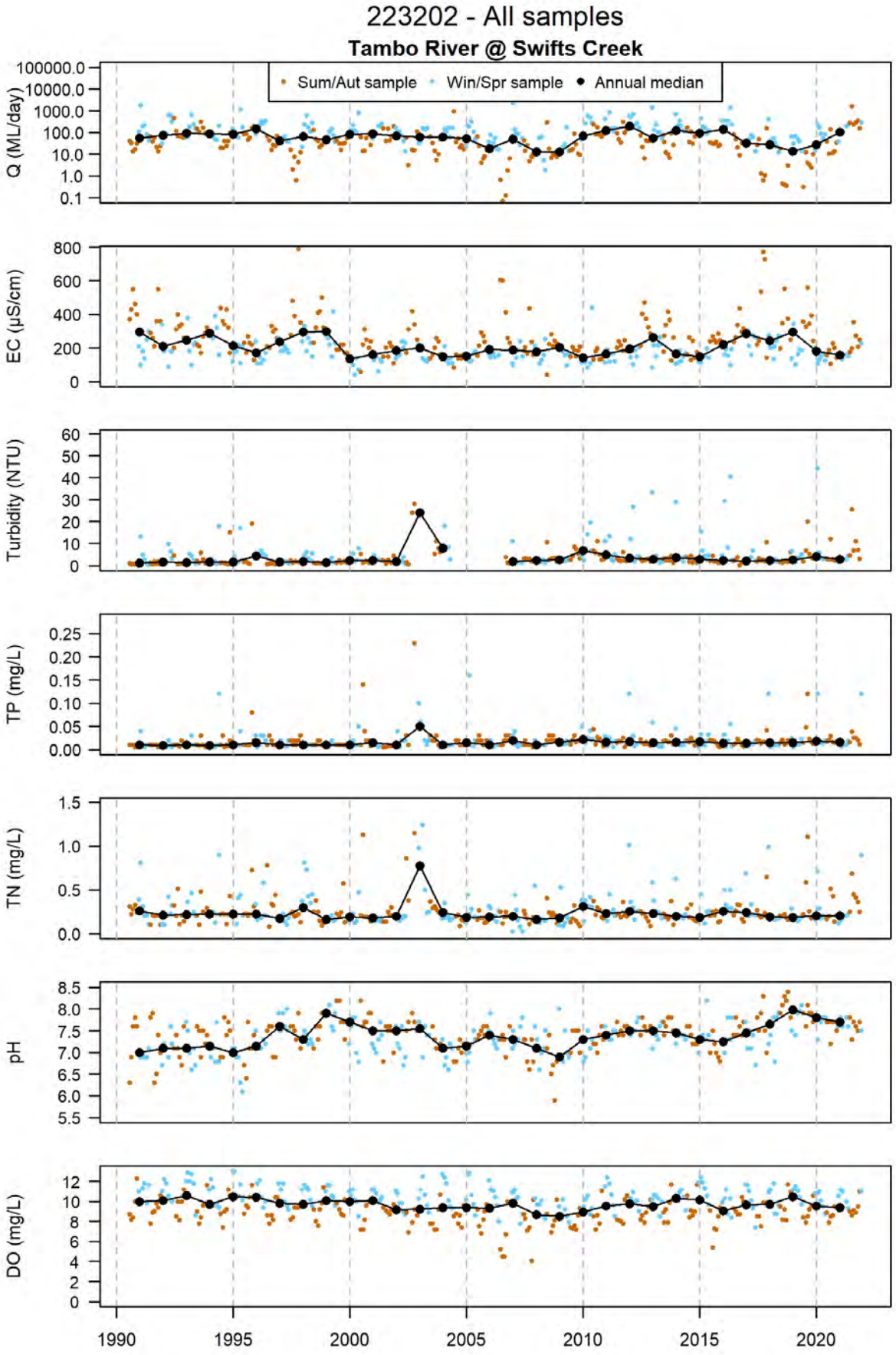
2015
2020

Tambo Basin


223202 - All samples
Tambo River @ Swifts Creek
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
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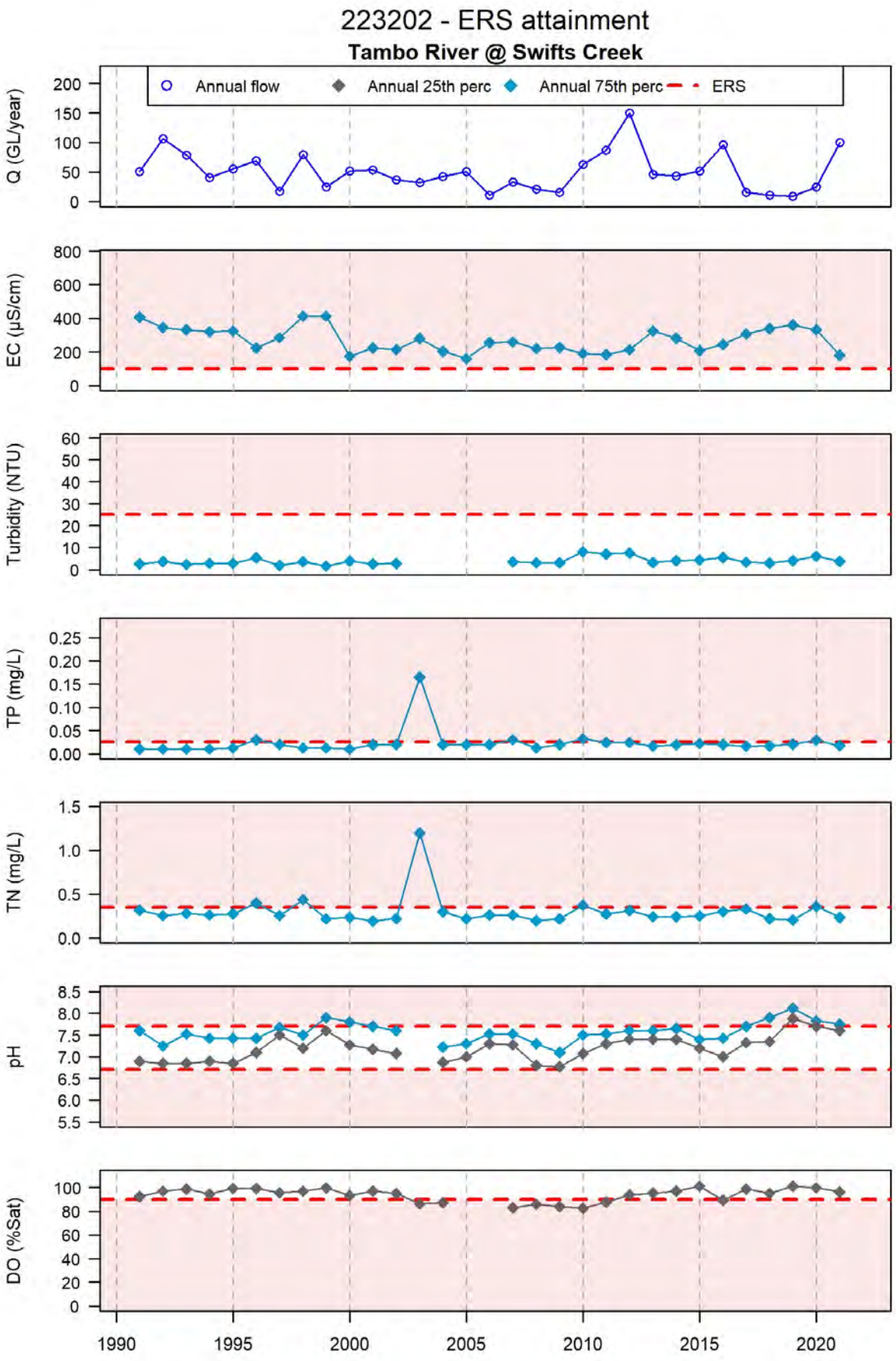
2015
2020


223202 - ERS attainment
Tambo River @ Swifts Creek
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
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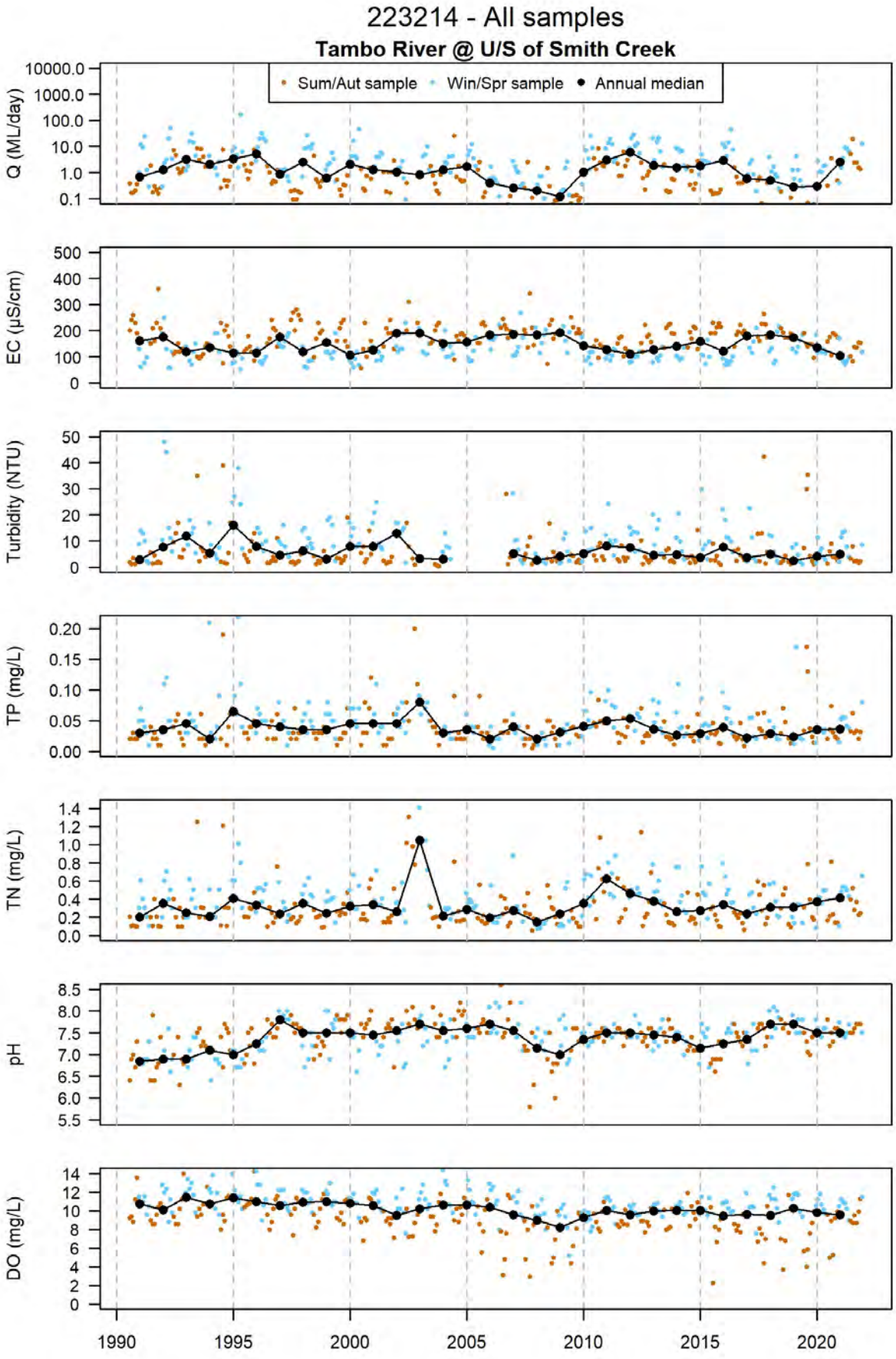
2005
2010
2015
2020


223214 - All samples
Tambo River @ U/S of Smith Creek
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
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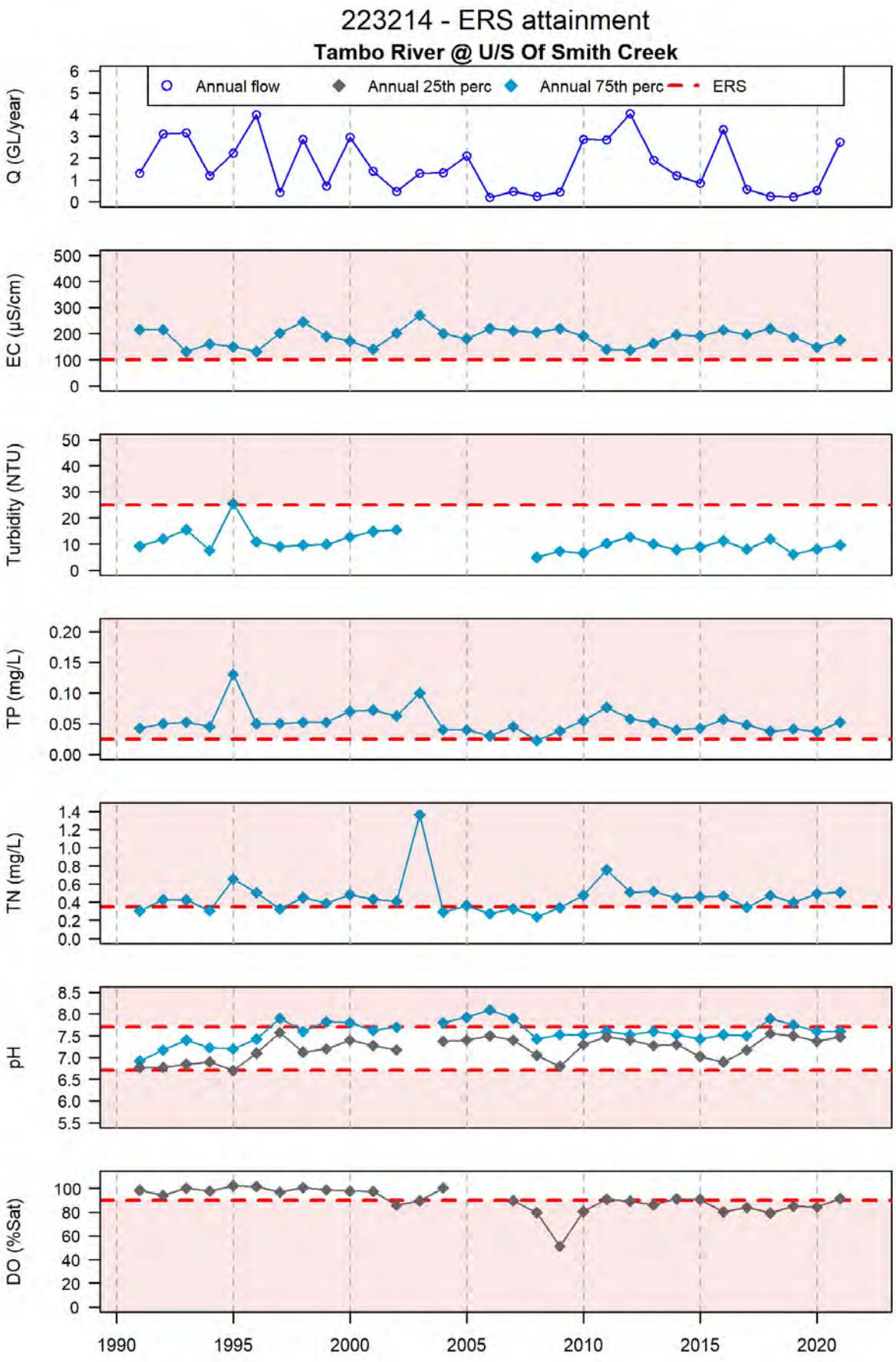
2015
2020


223214 - ERS attainment
Tambo River @ U/S Of Smith Creek
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
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pH
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2010
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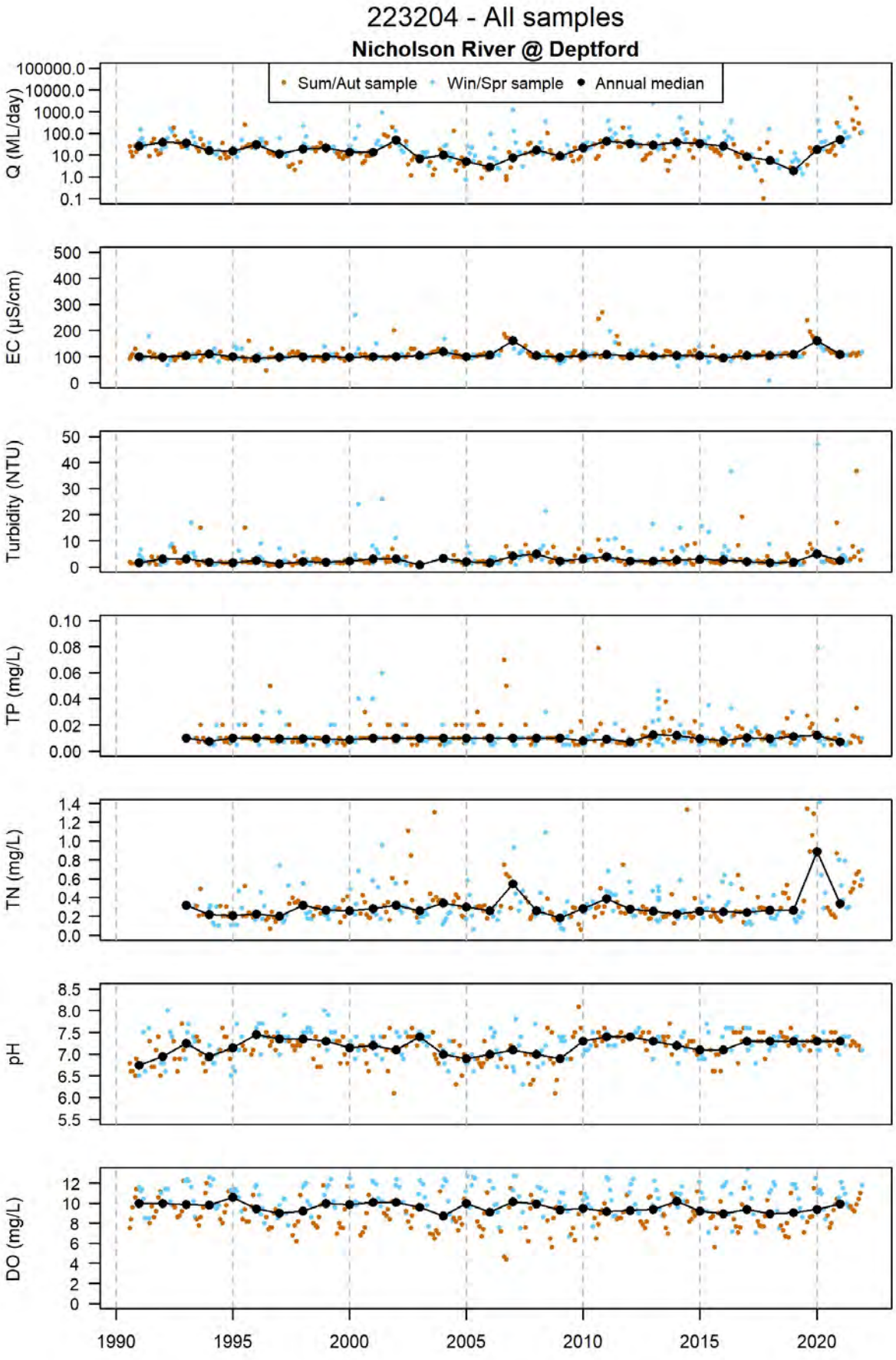
2020


223204 - All samples
Nicholson River @ Deptford
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
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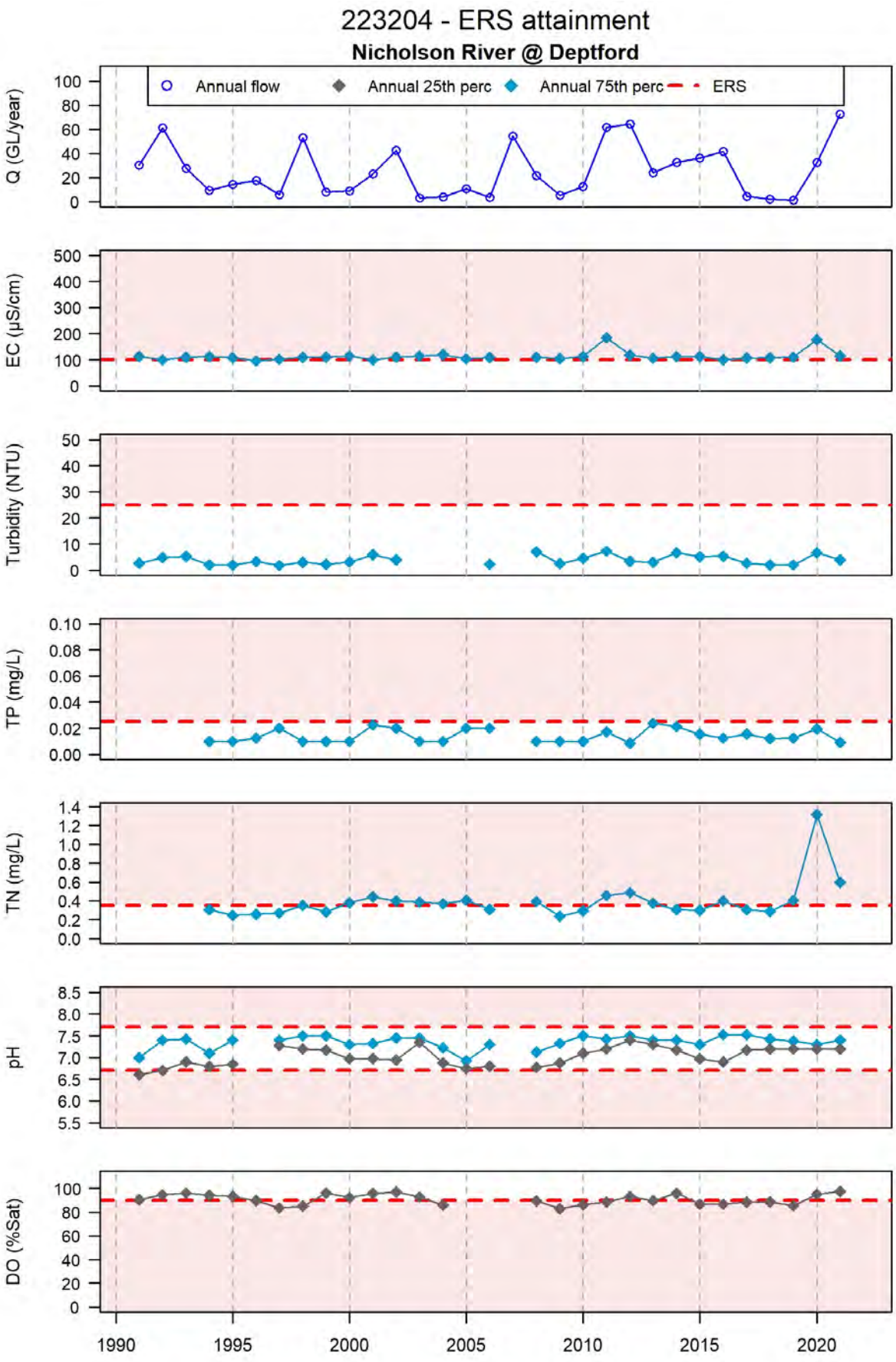
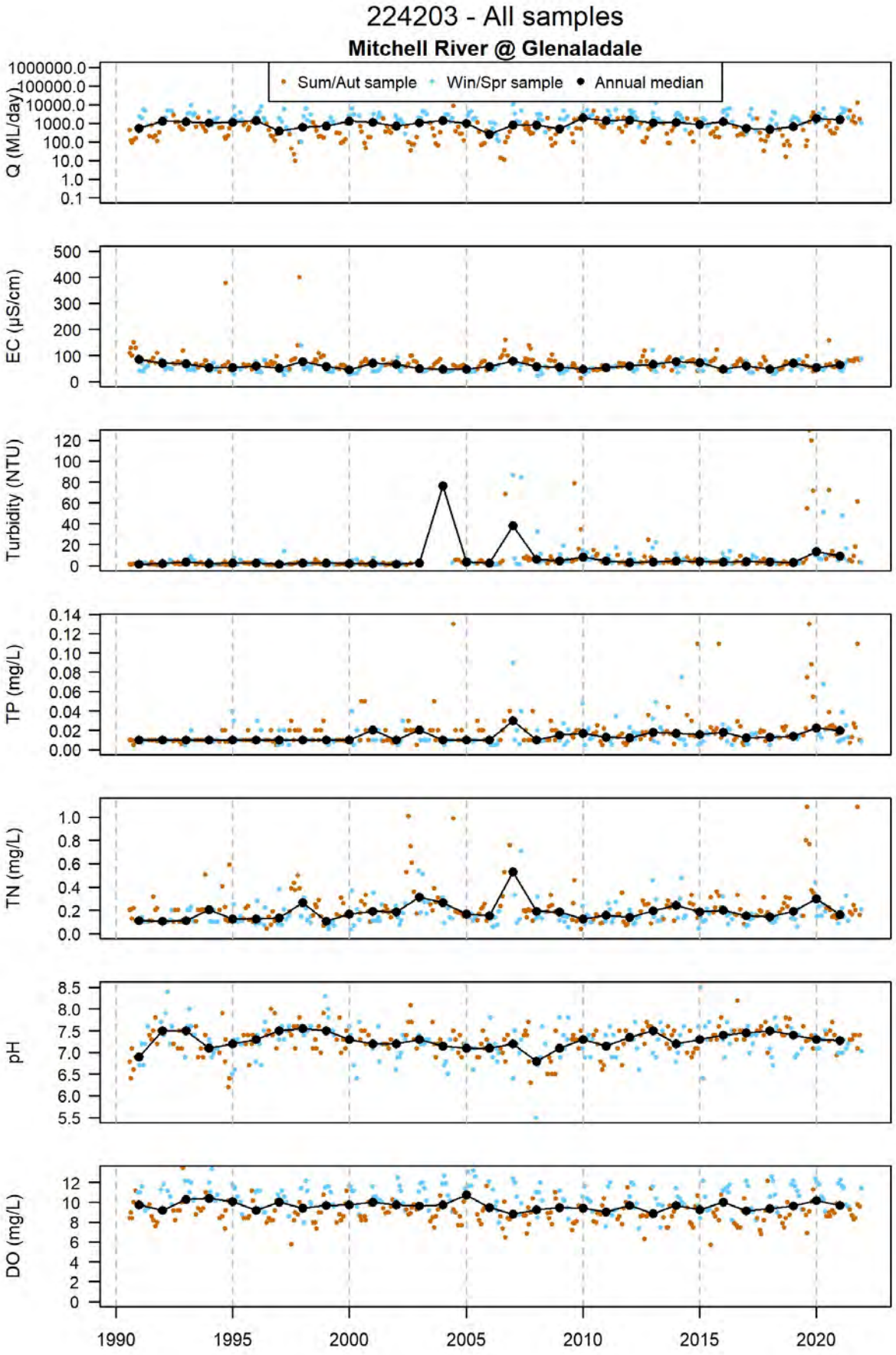
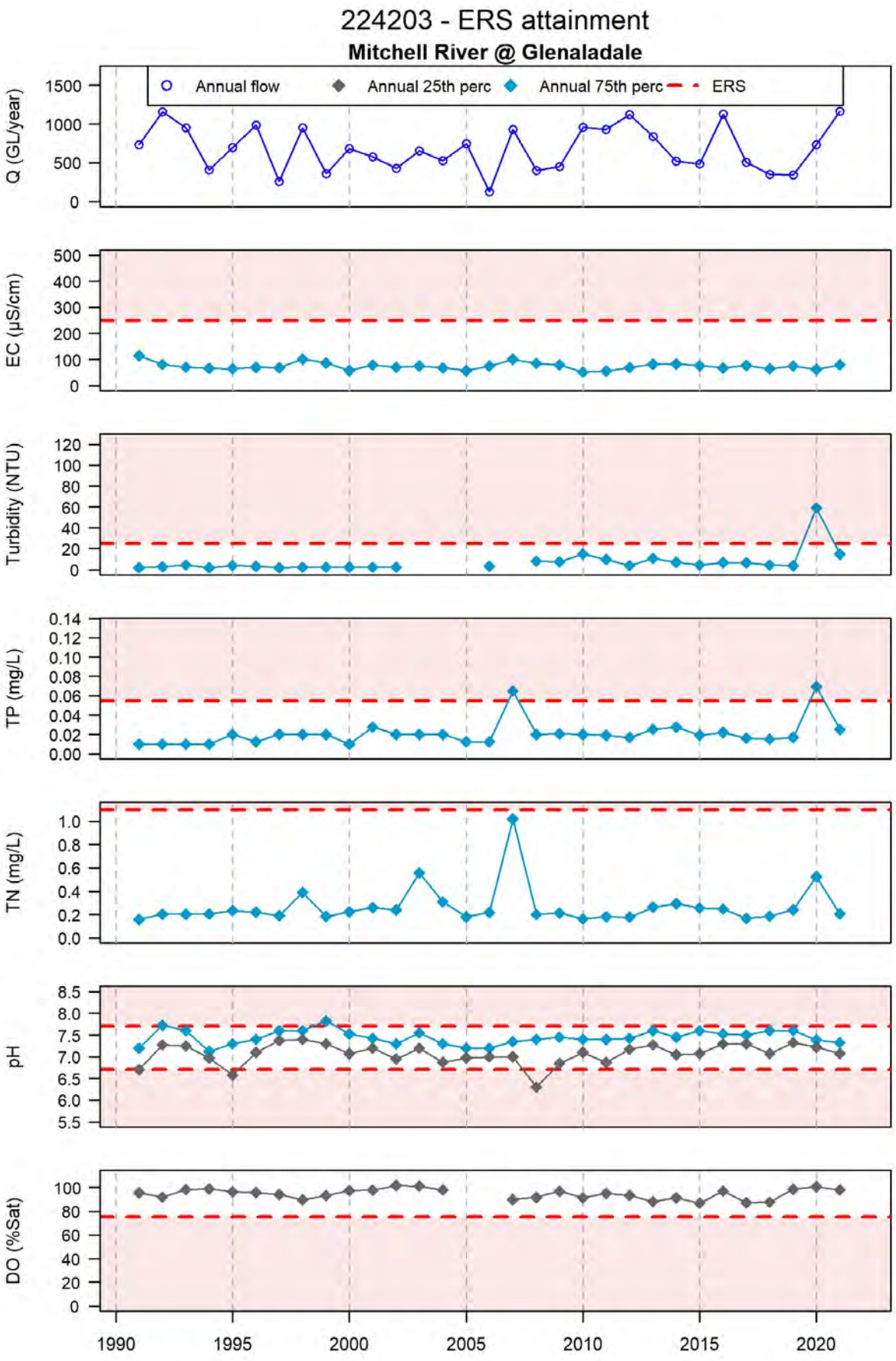
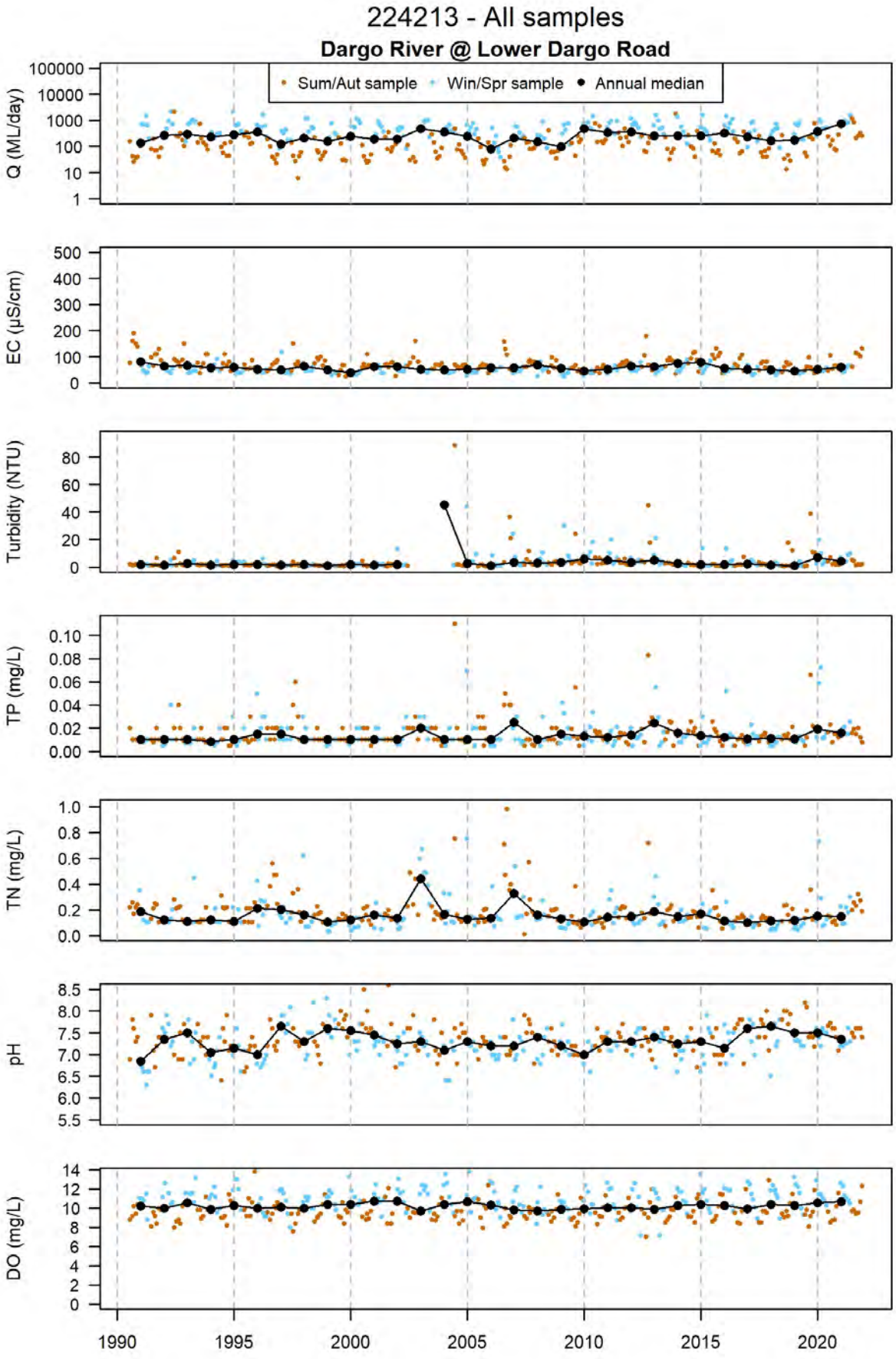
2015
2020

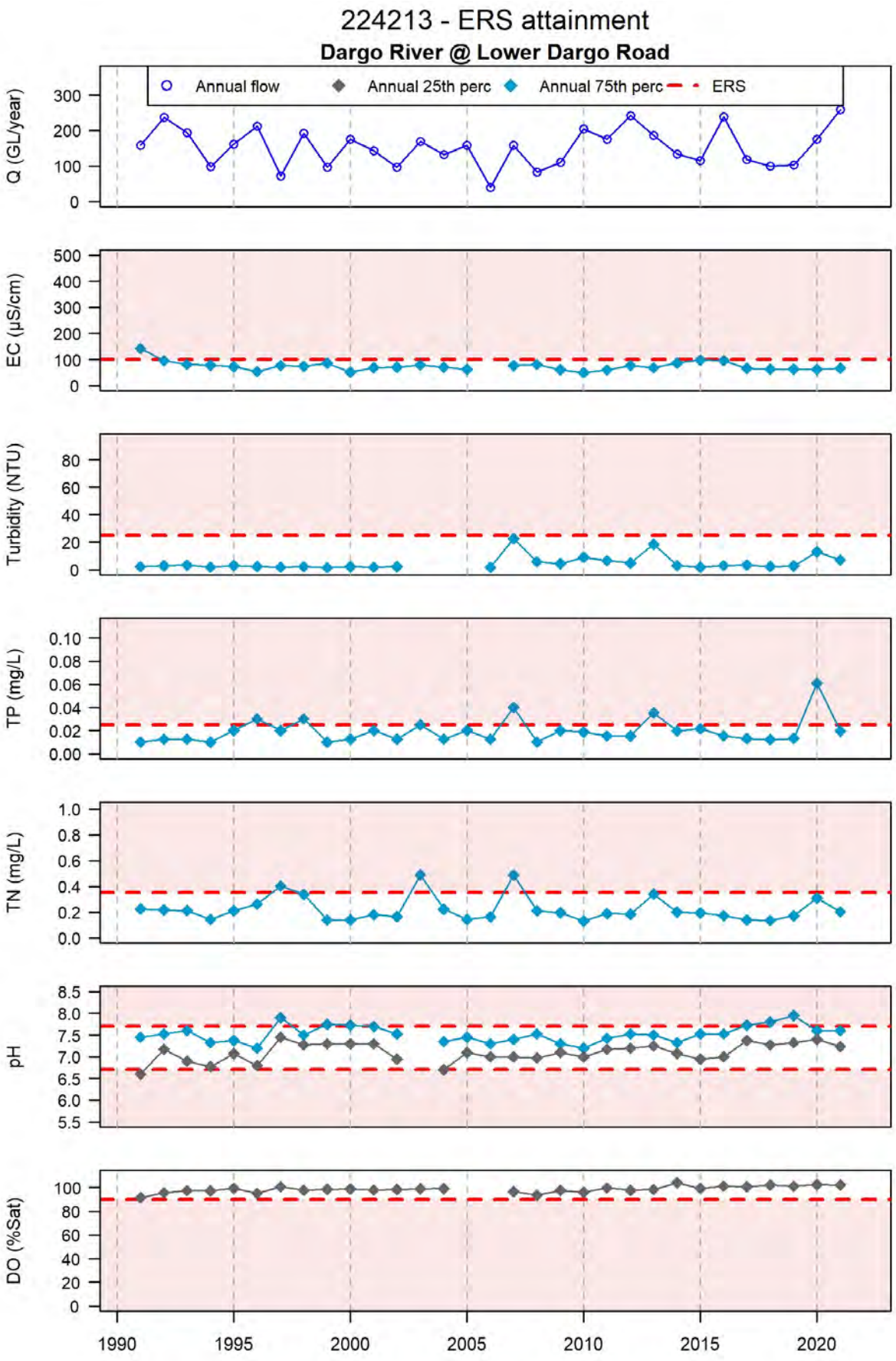

223204 - ERS attainment
Nicholson River @ Deptford
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

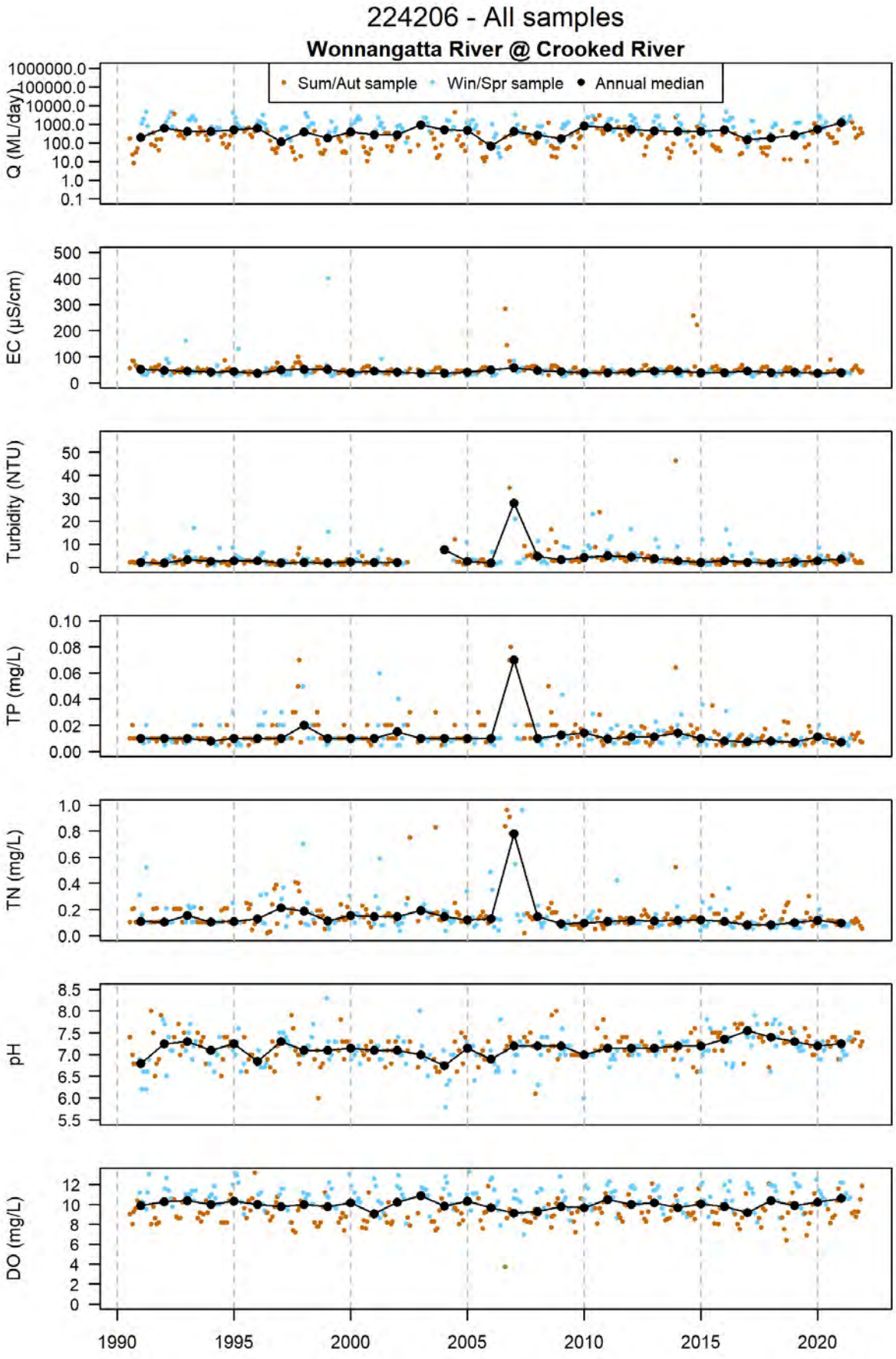
Mitchell Basin

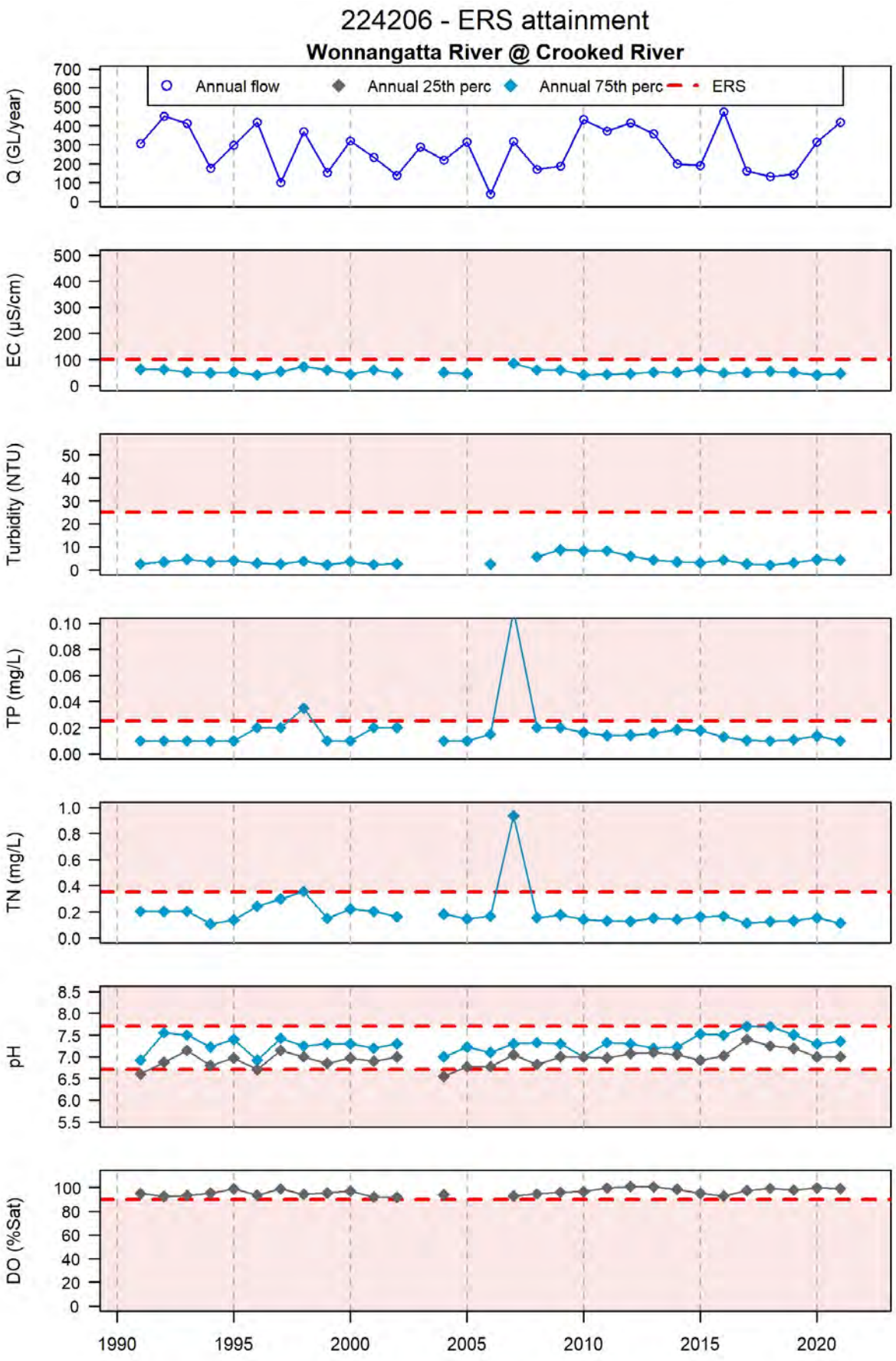



224203 - ERS attainment
Mitchell River @ Glenaladale
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

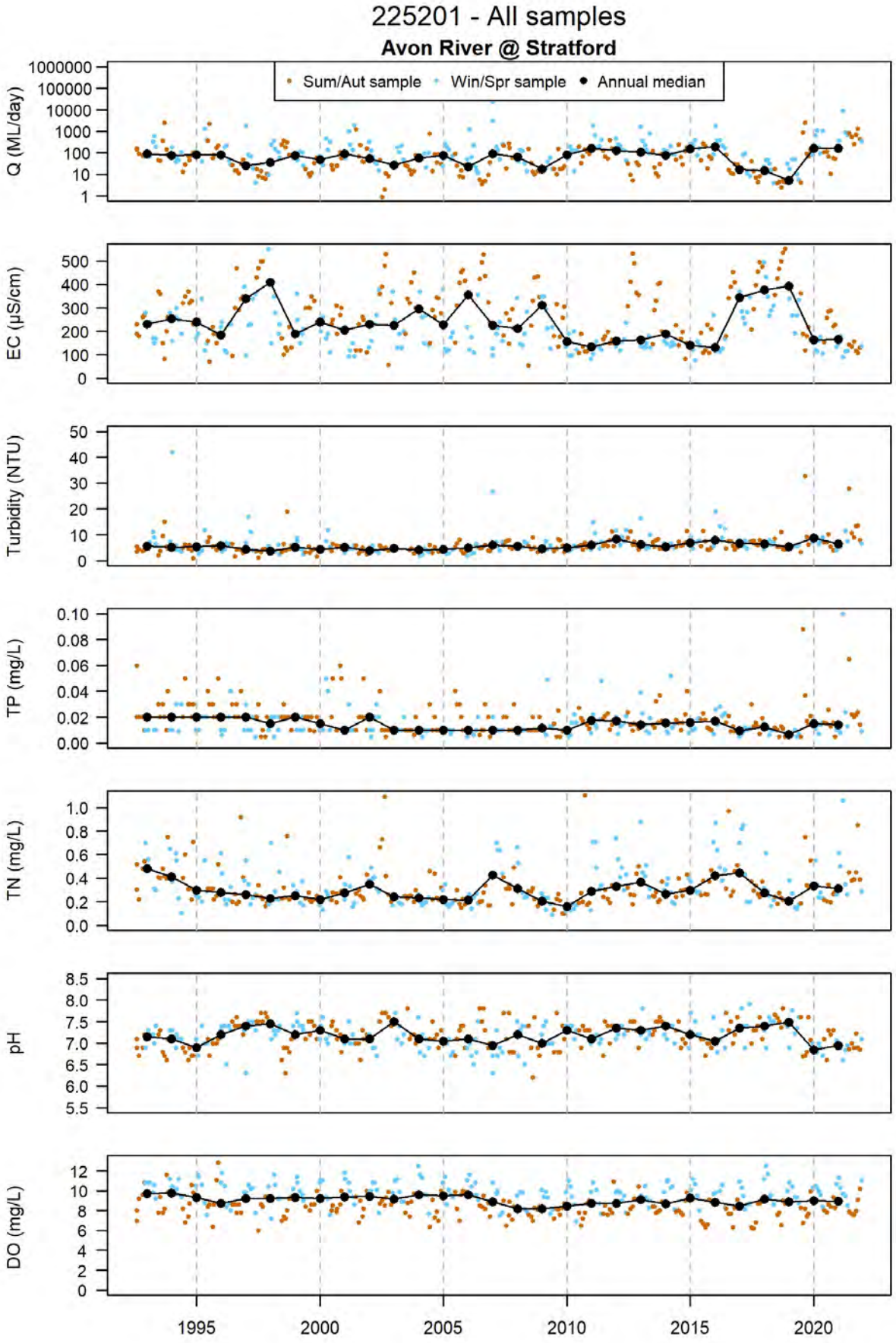

224213 - All samples
Dargo River @ Lower Dargo Road
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

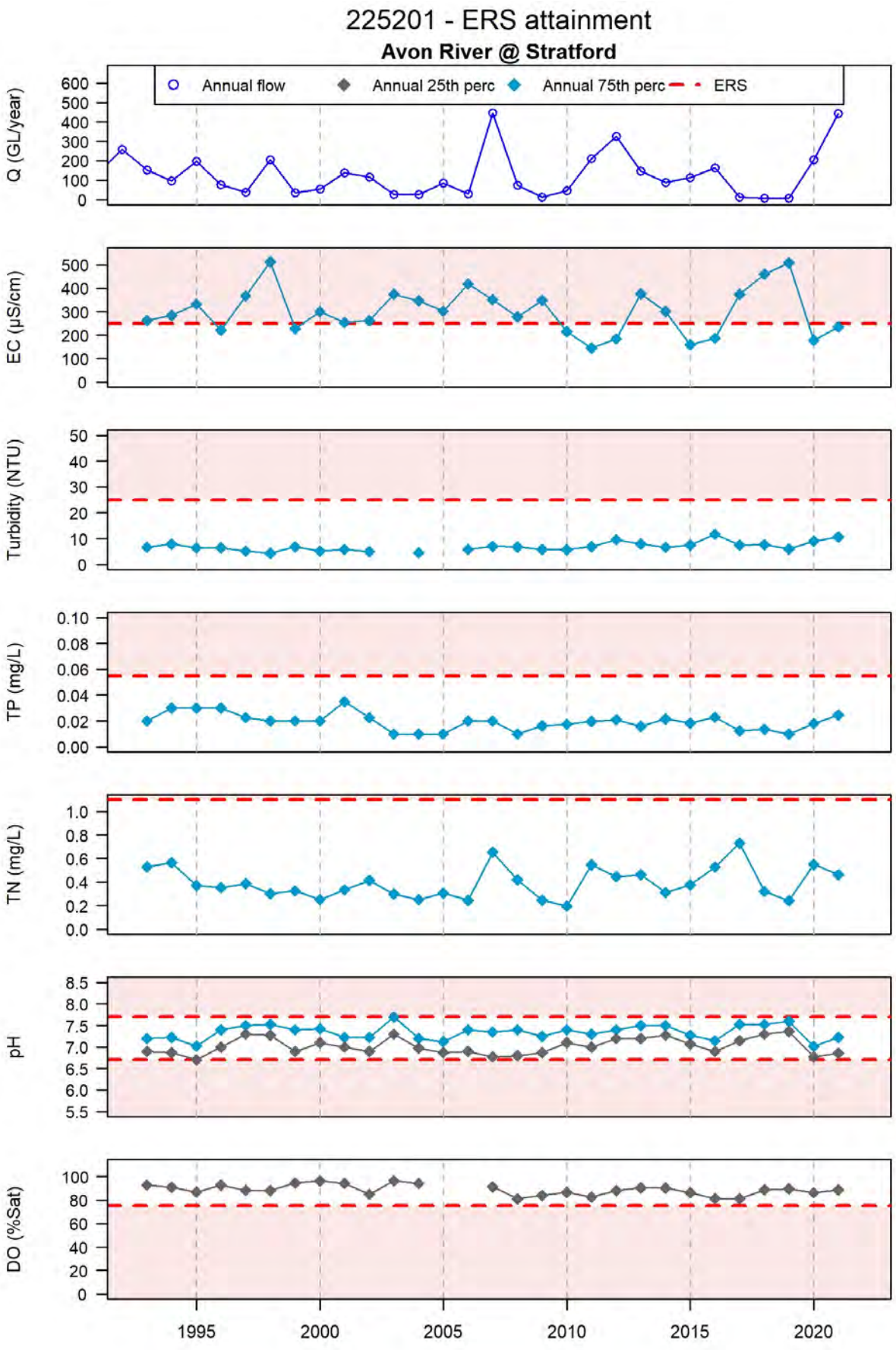

224213 - ERS attainment
Dargo River @ Lower Dargo Road
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

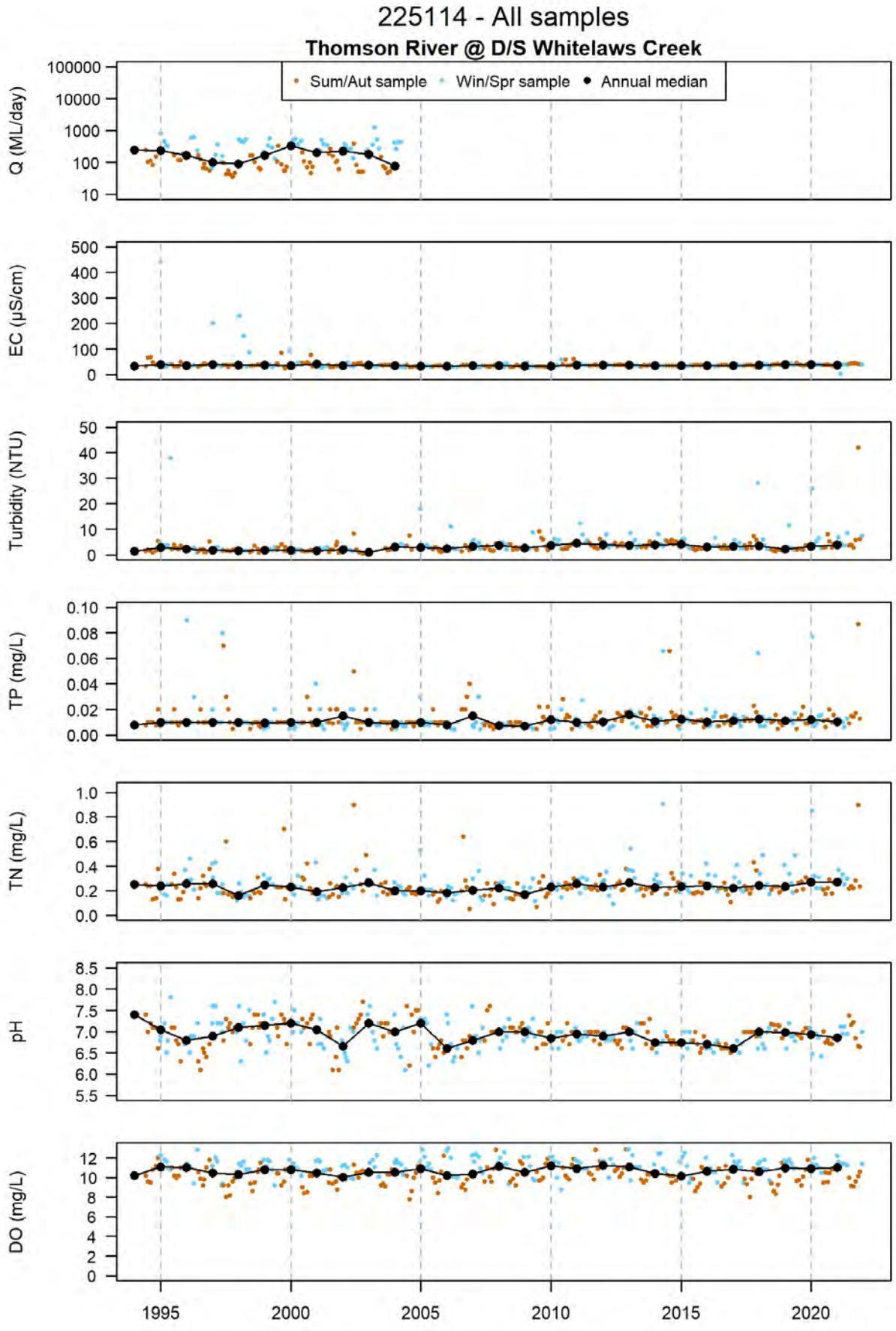

224206 - All samples
Wonnangatta River @ Crooked River
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

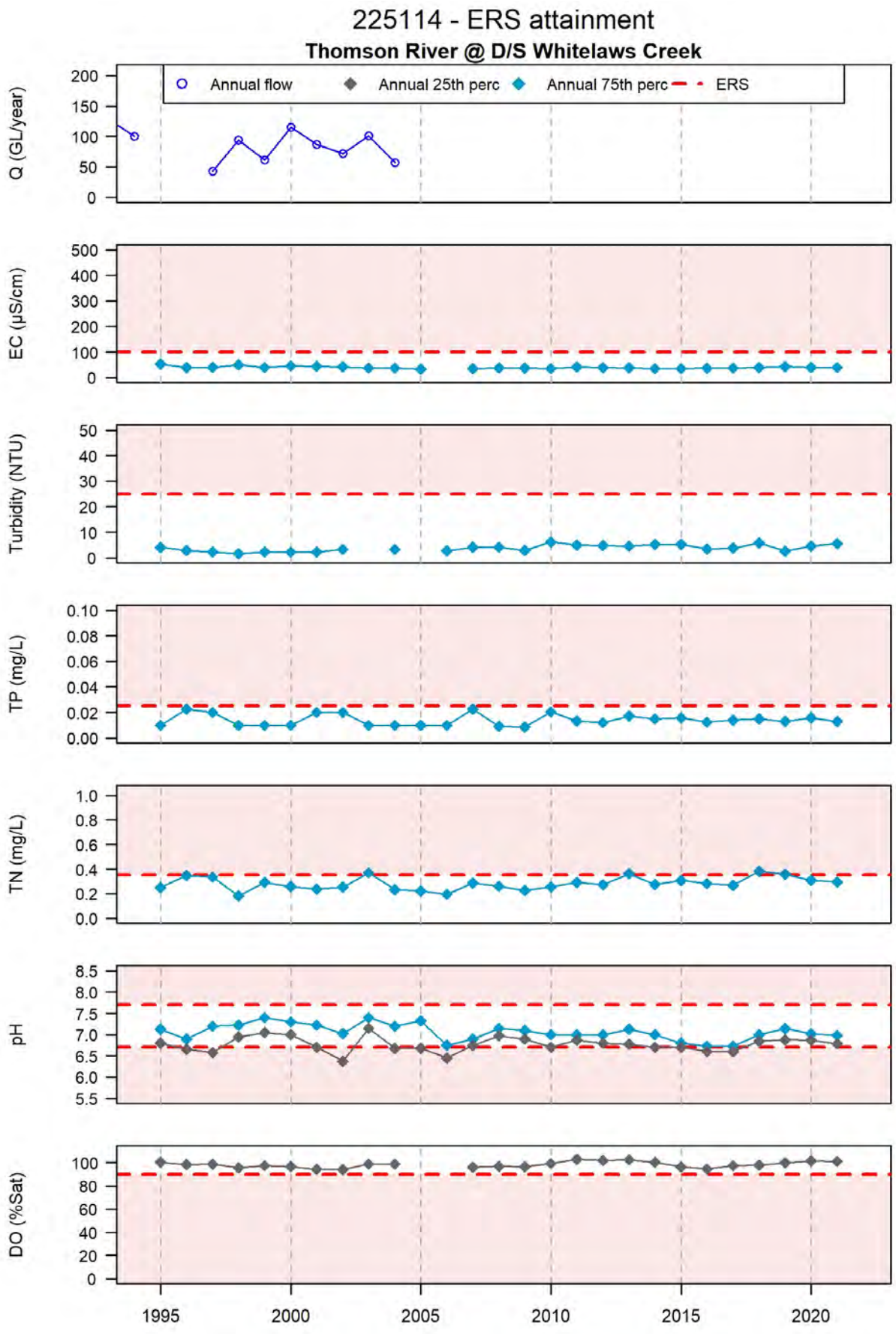

224206 - ERS attainment
Wonnangatta River @ Crooked River
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

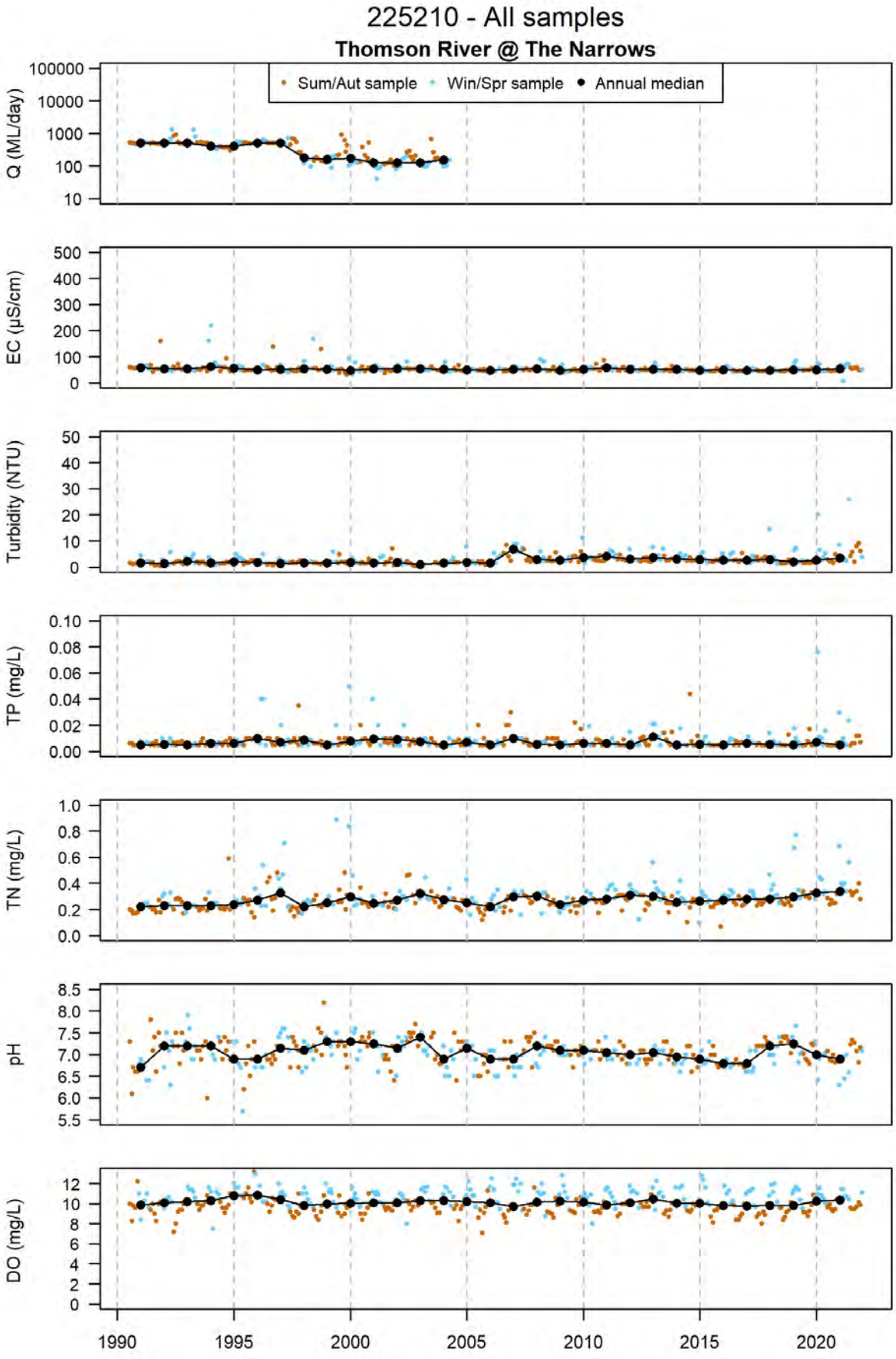
Thomson Basin

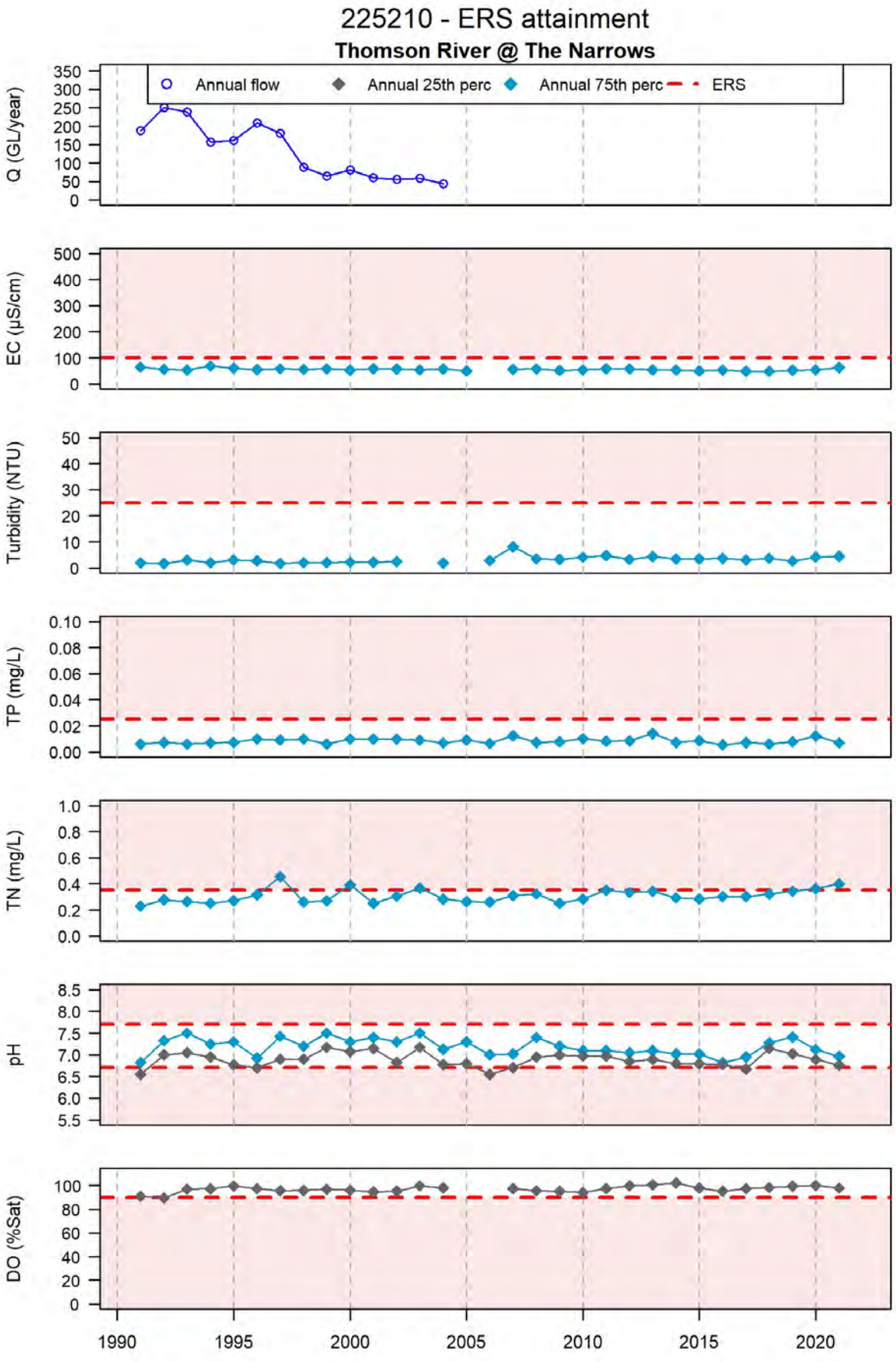



225201 - ERS attainment
Avon River @ Stratford
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

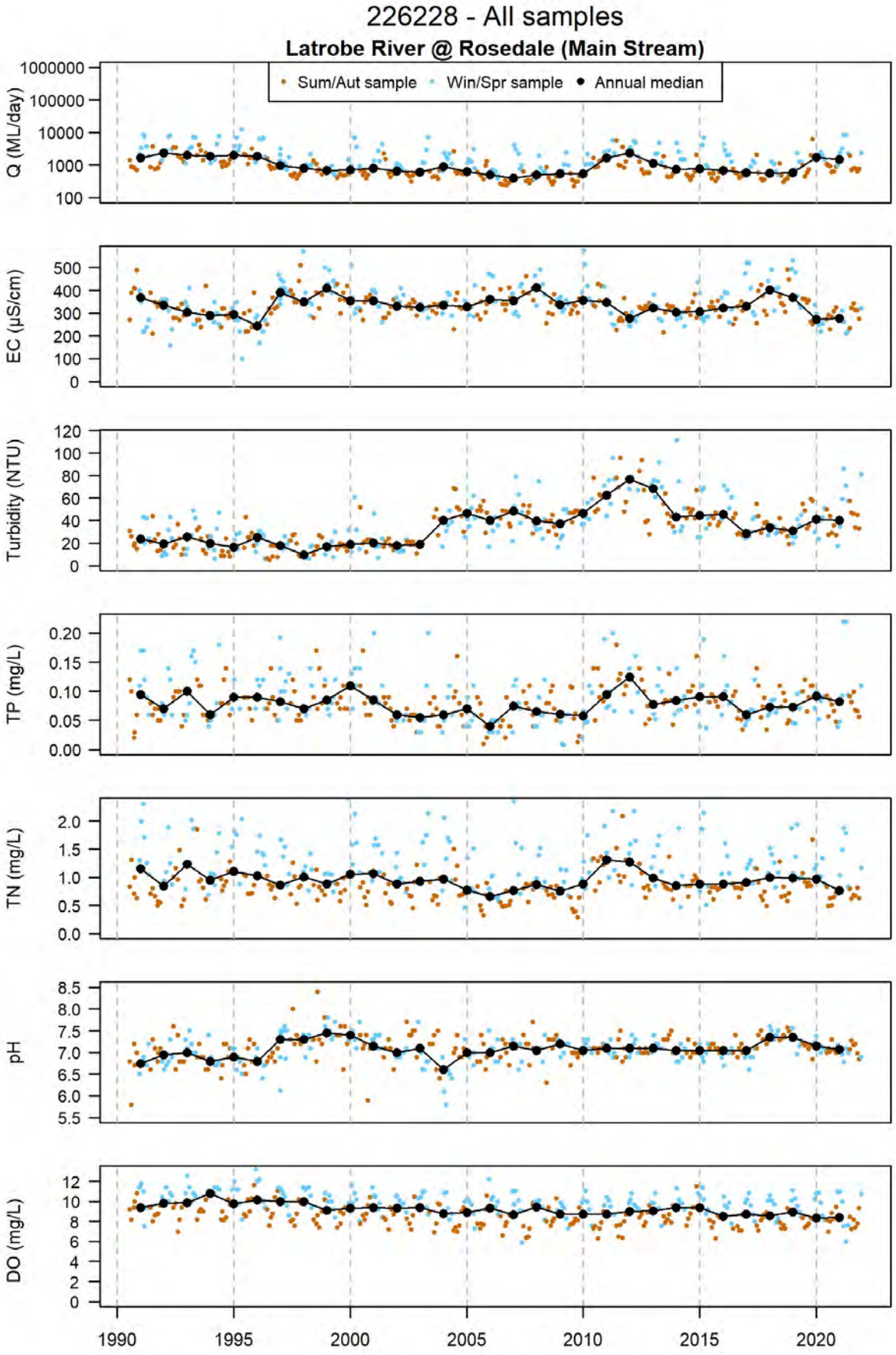

225114 - All samples
Thomson River @ D/S Whitelaws Creek
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

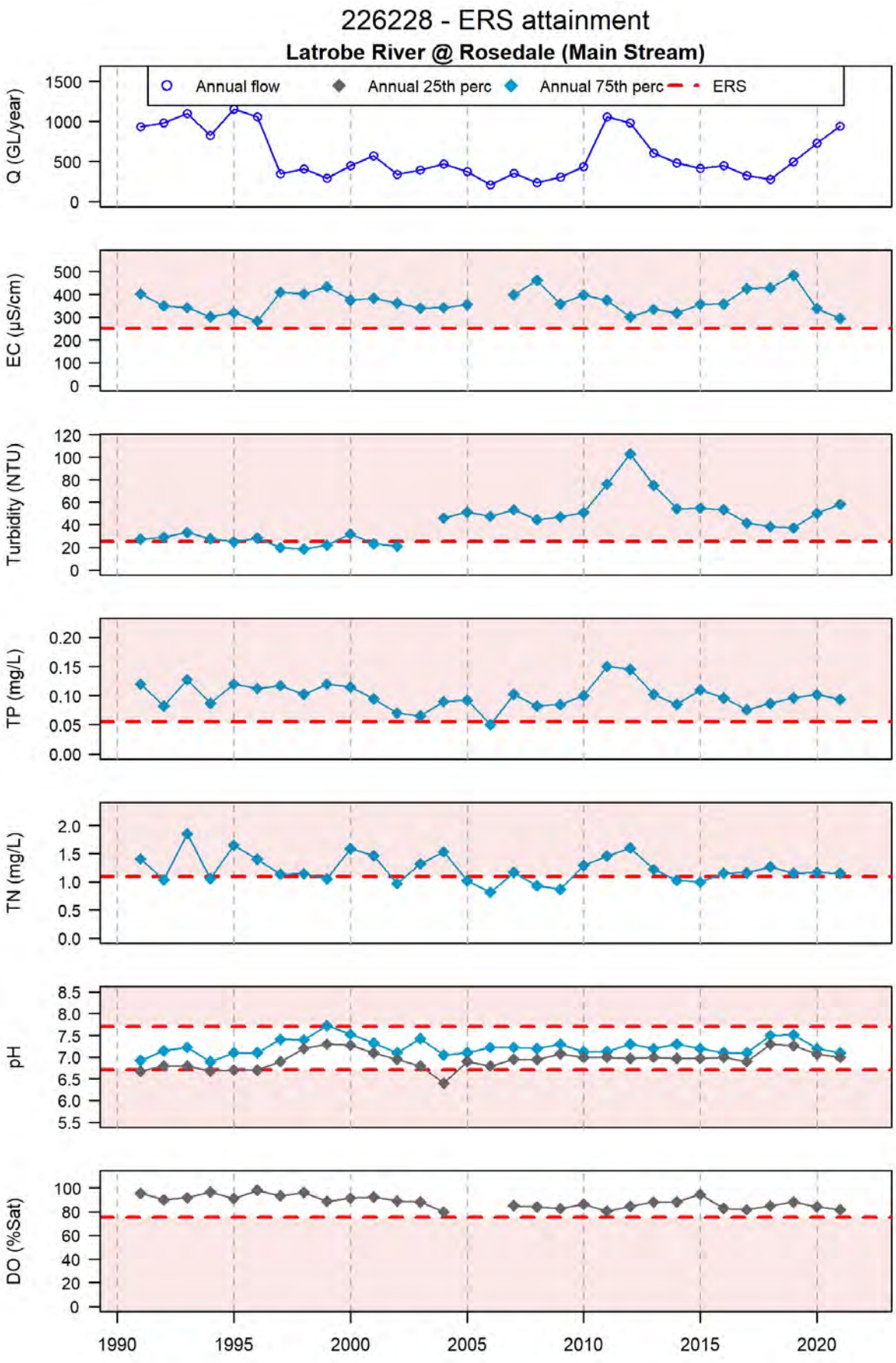

225114 - ERS attainment
Thomson River @ D/S Whitelaws Creek
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

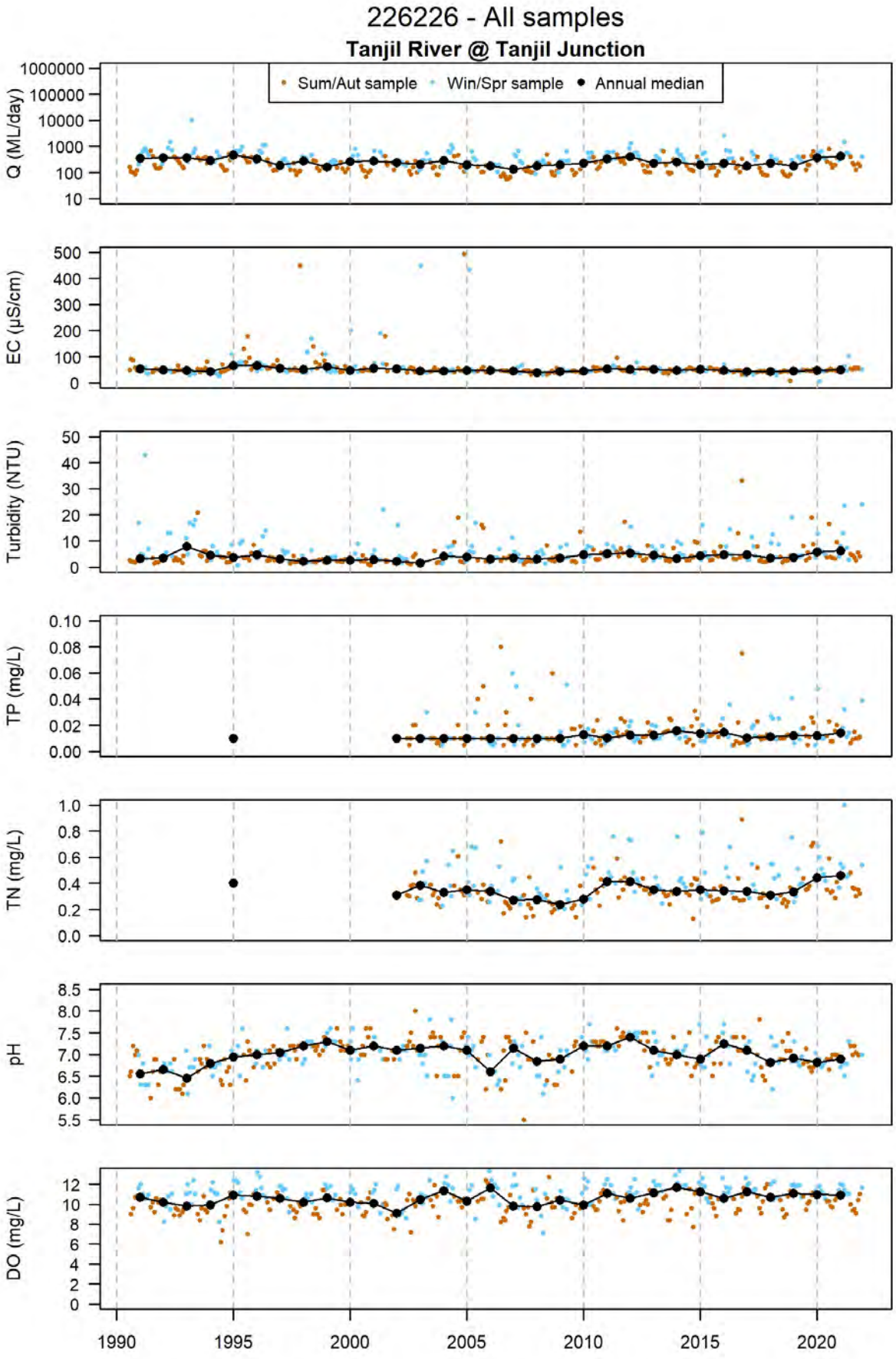

225210 - All samples
Thomson River @ The Narrows
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

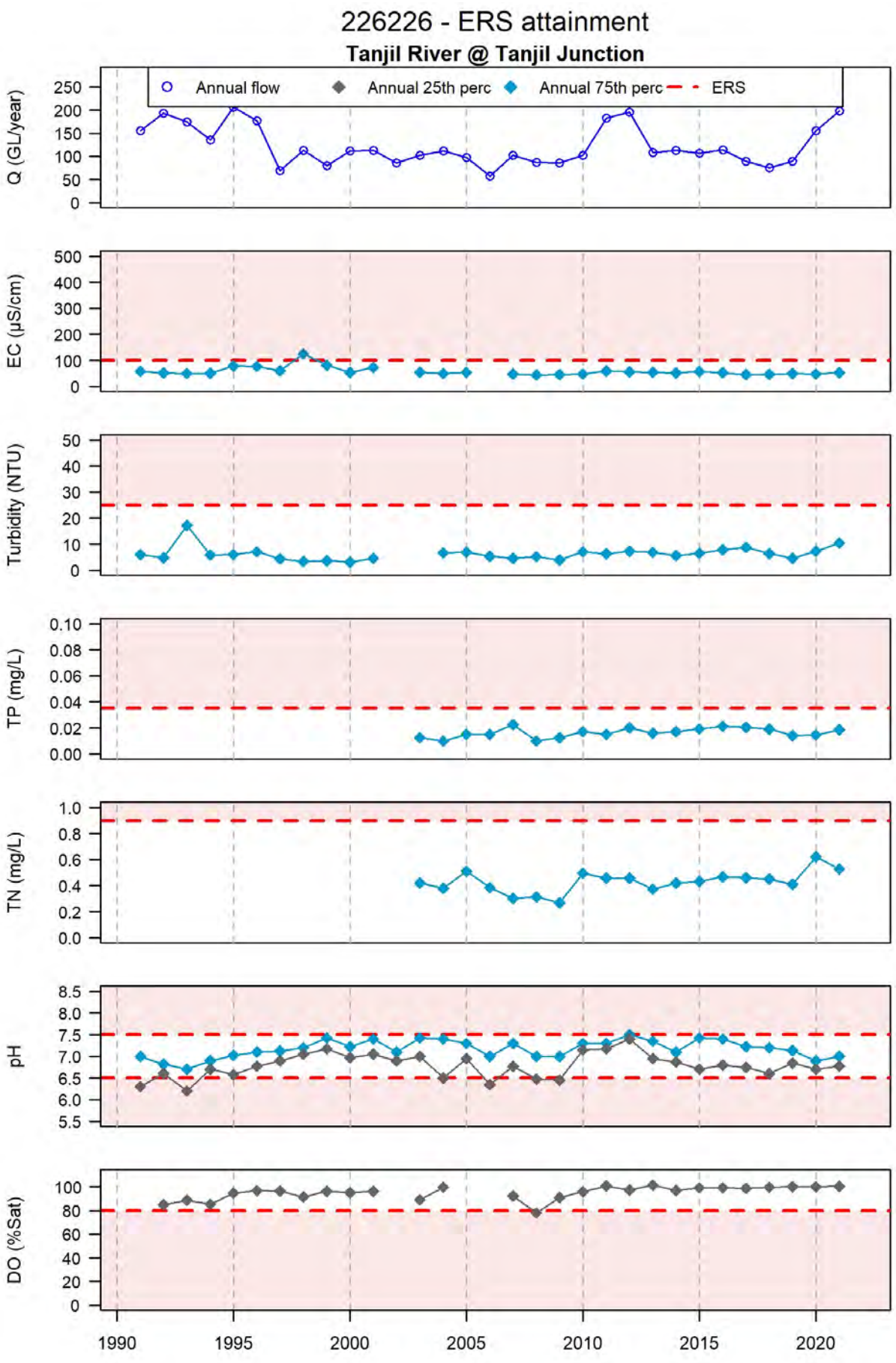

225210 - ERS attainment
Thomson River @ The Narrows
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

Latrobe Basin

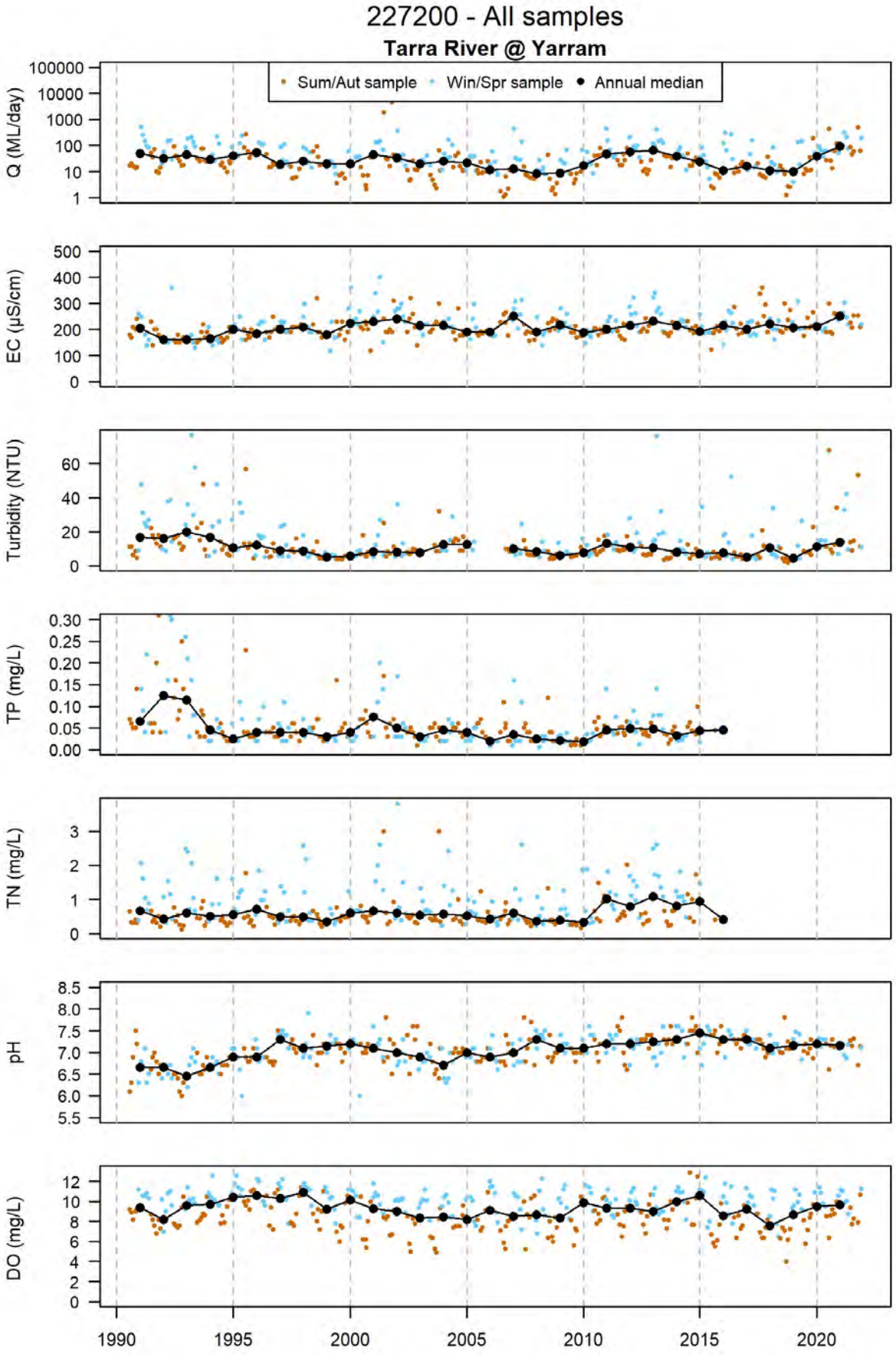


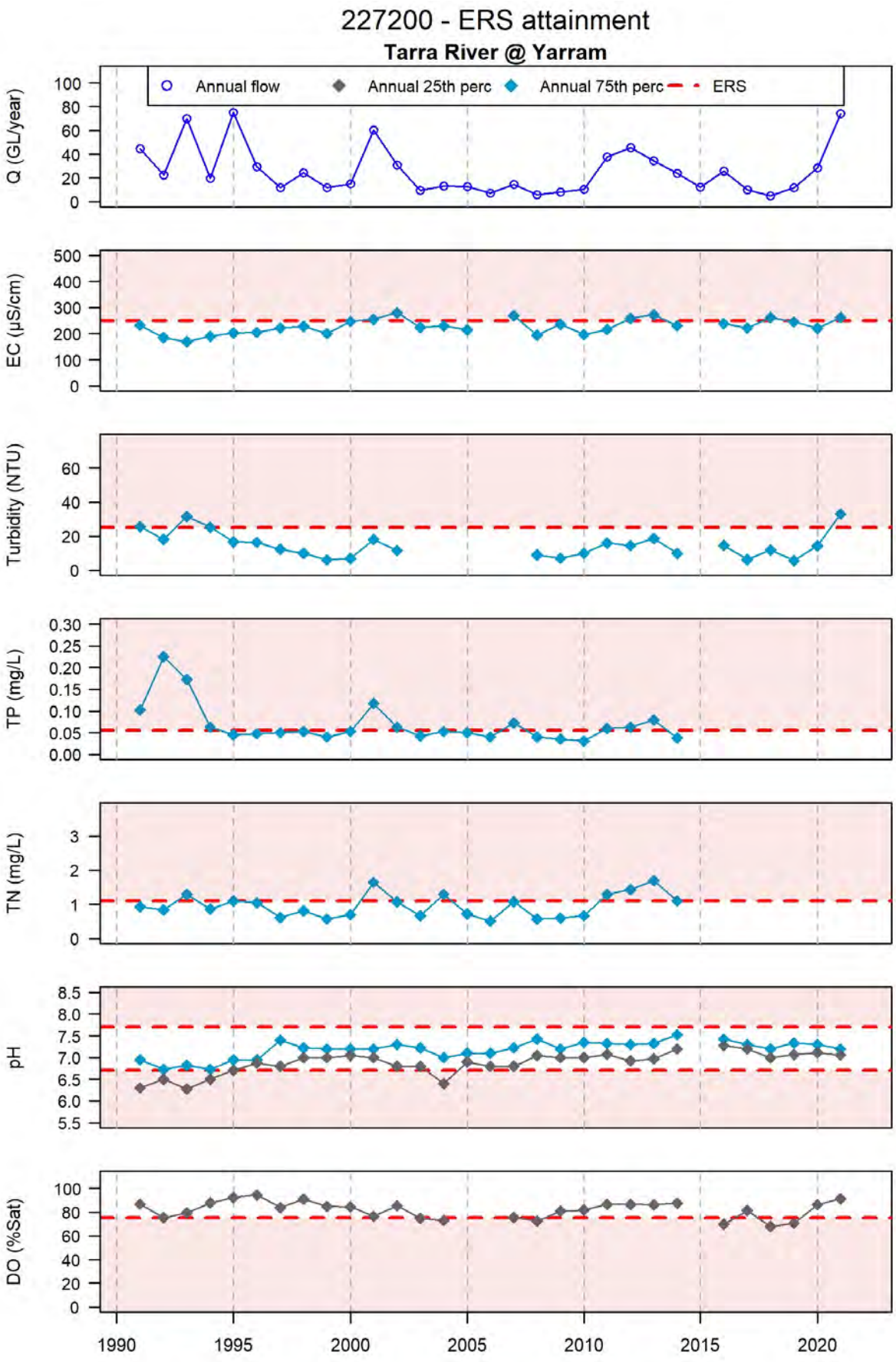

226228 - ERS attainment
Latrobe River @ Rosedale (Main Stream)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

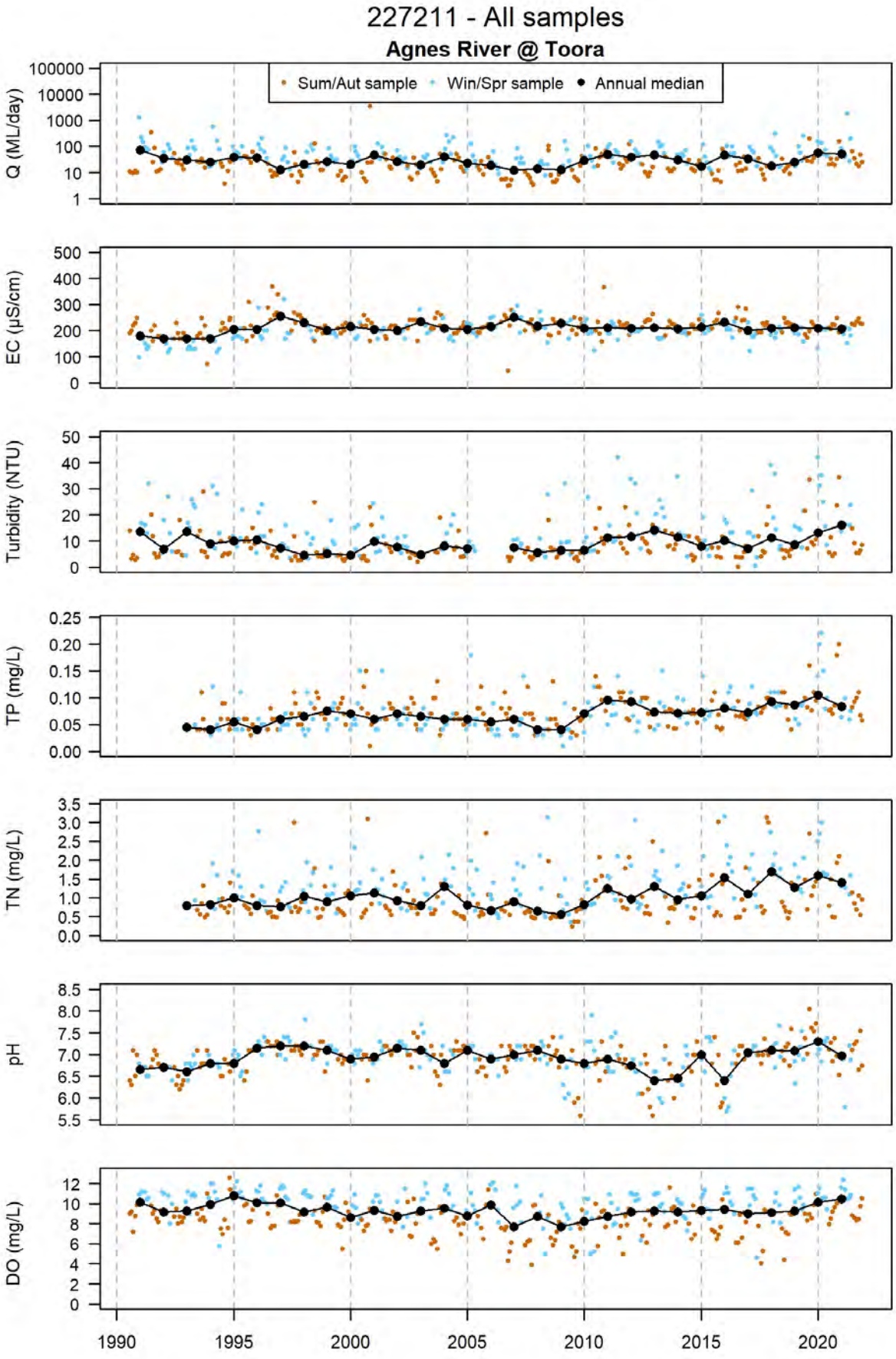

226226 - All samples
Tanjil River @ Tanjil Junction
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

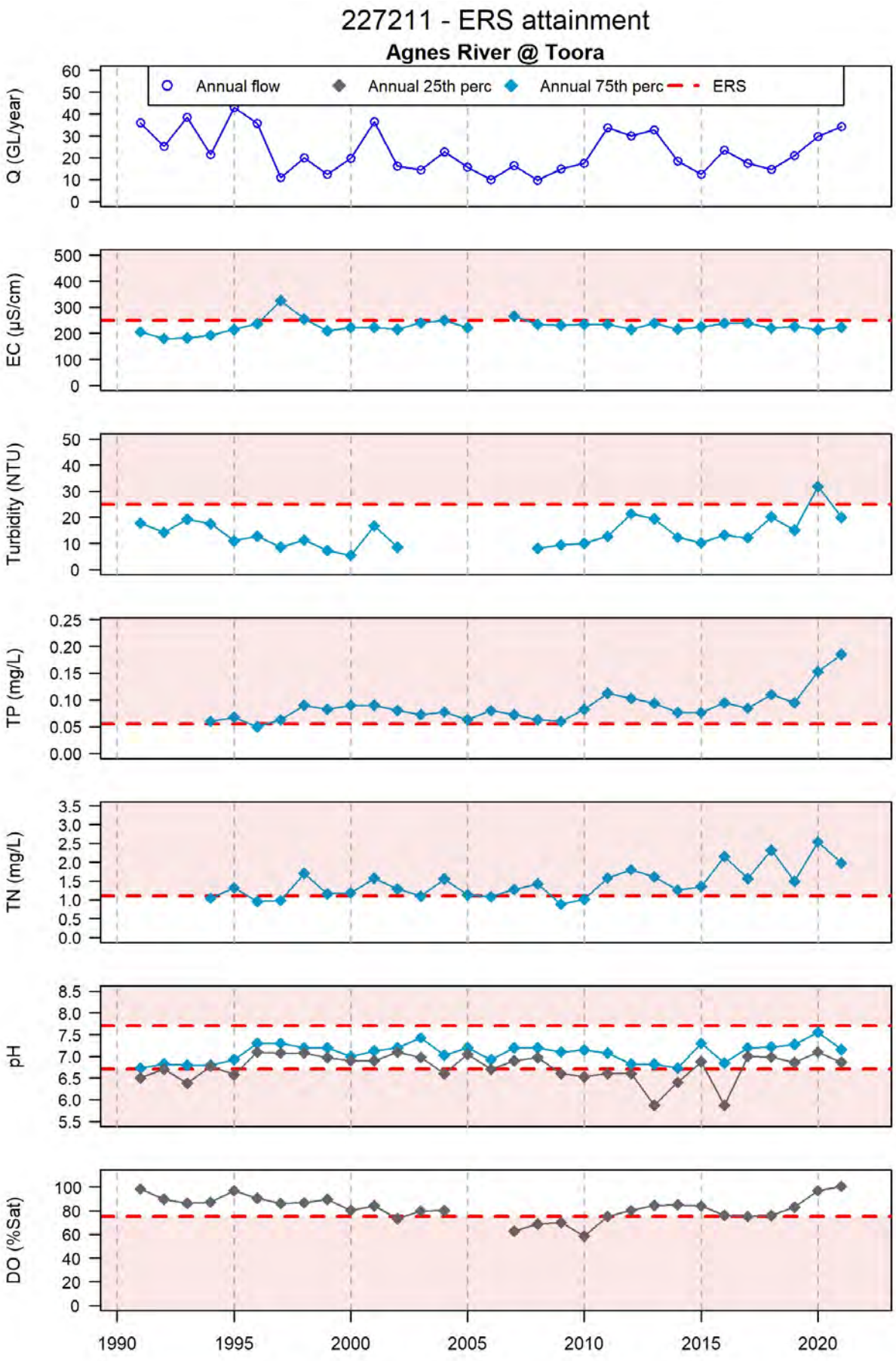

226226 - ERS attainment
Tanjil River @ Tanjil Junction
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

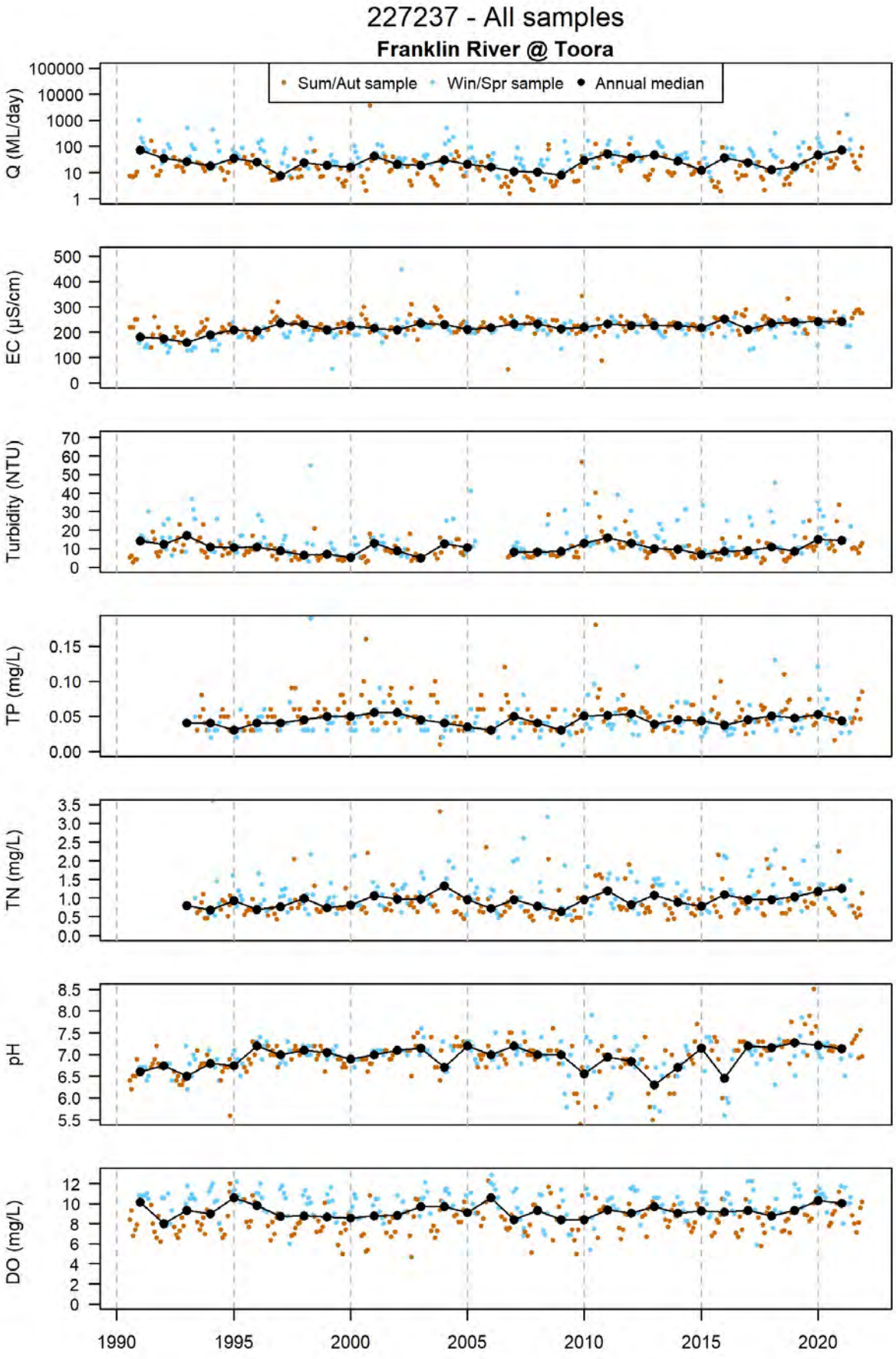
South Gippsland Basin

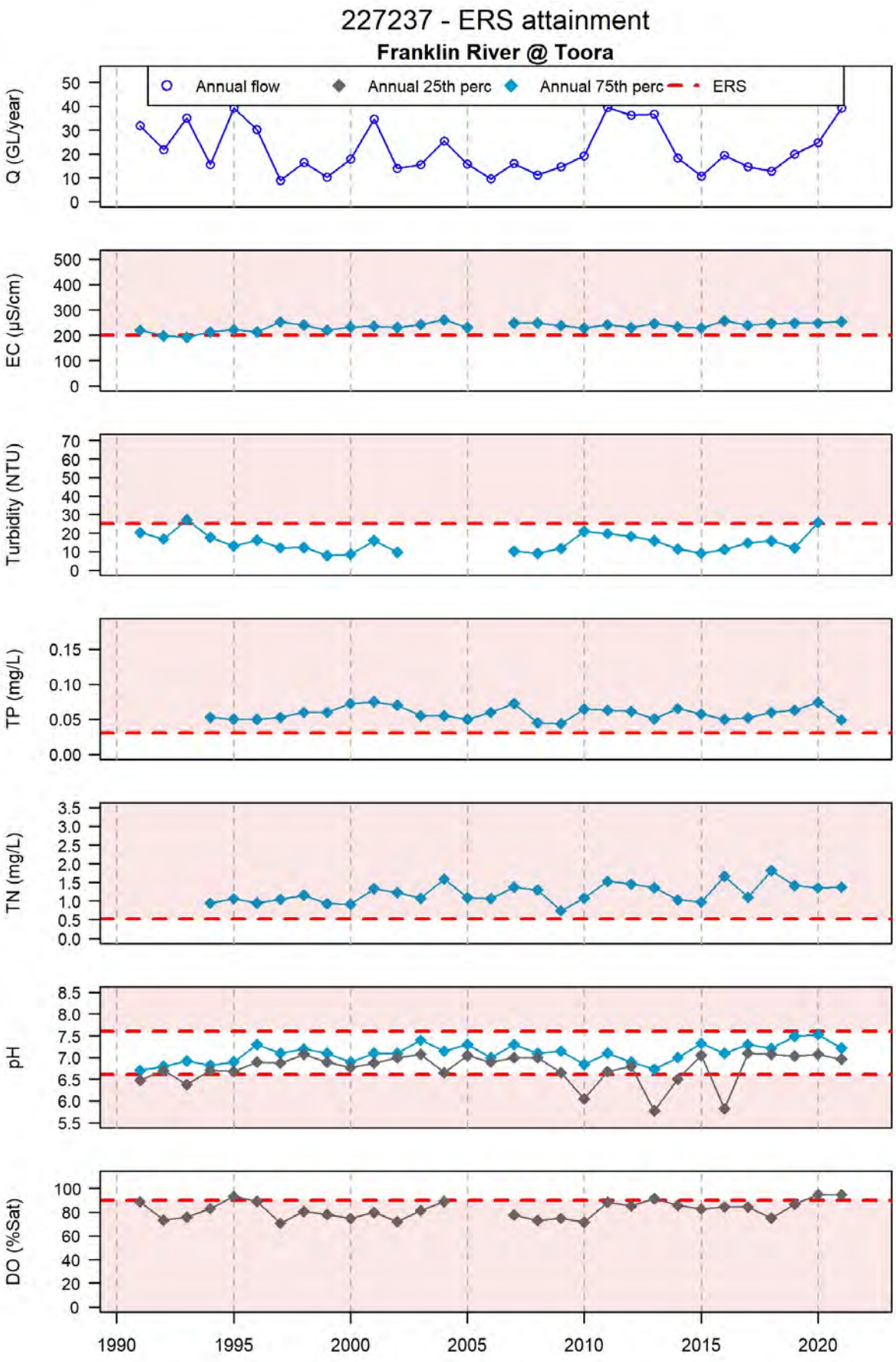


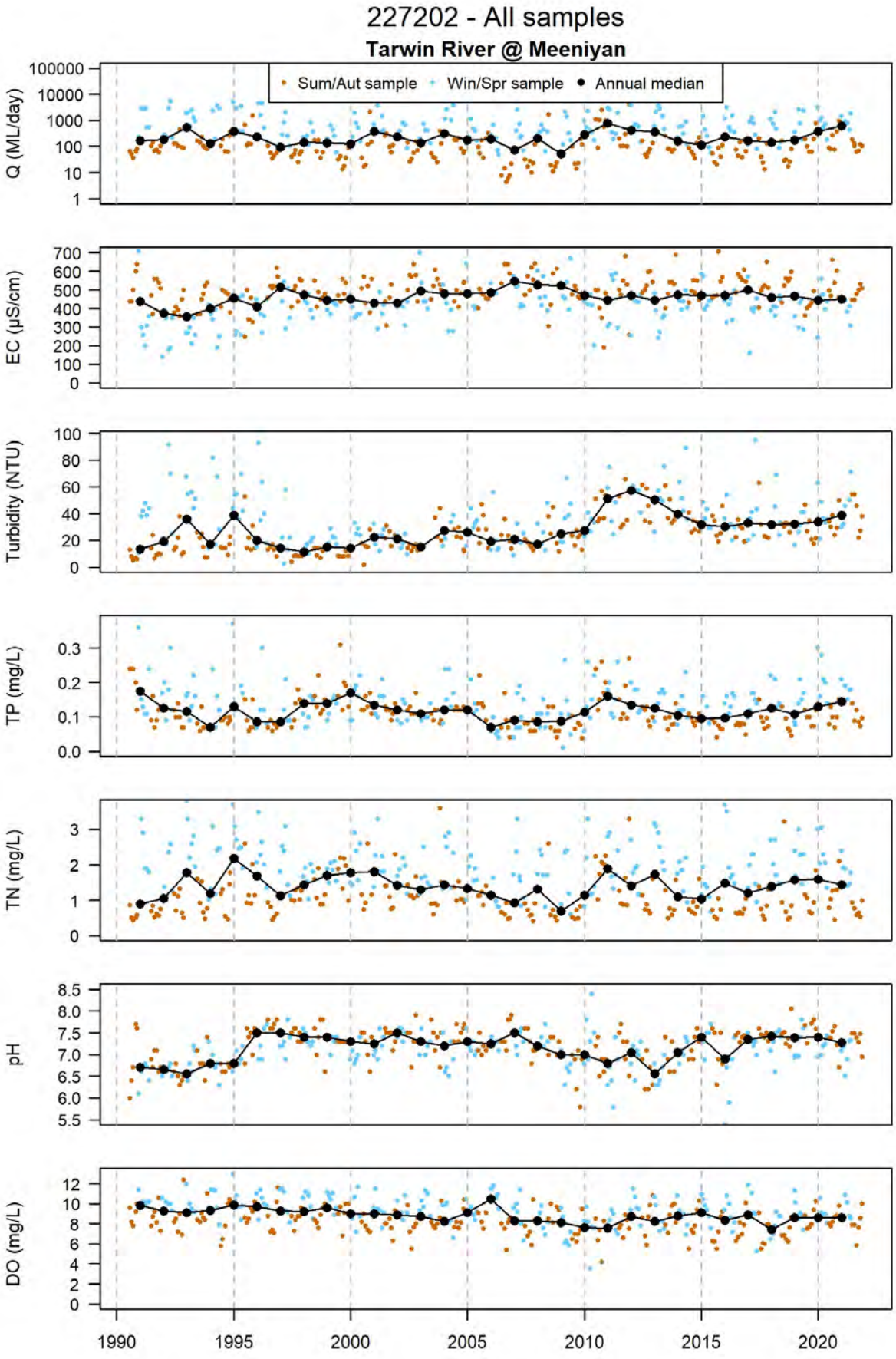

227200 - ERS attainment
Tarra River @ Yarram
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

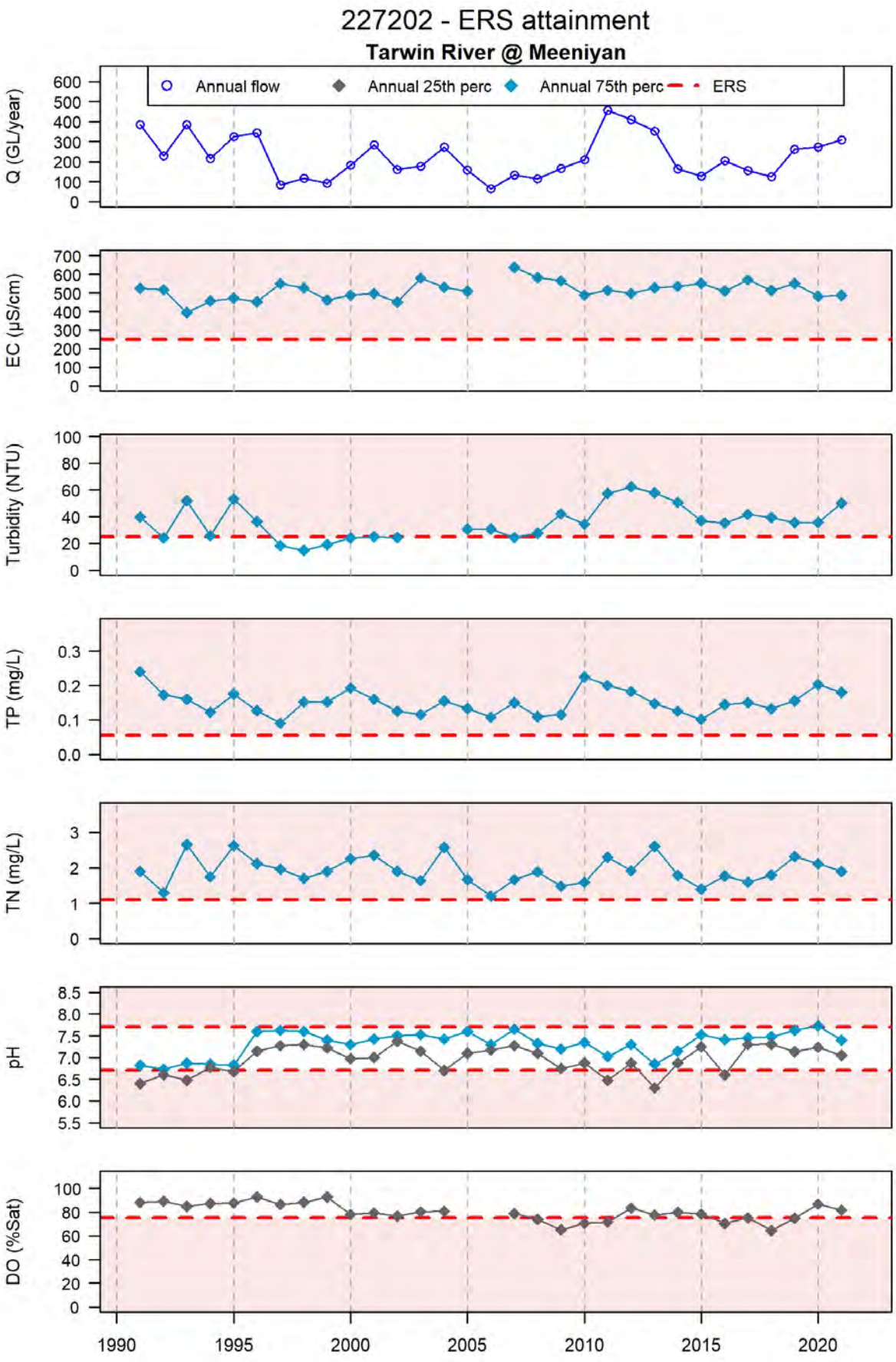

227211 - All samples
Agnes River @ Toora
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

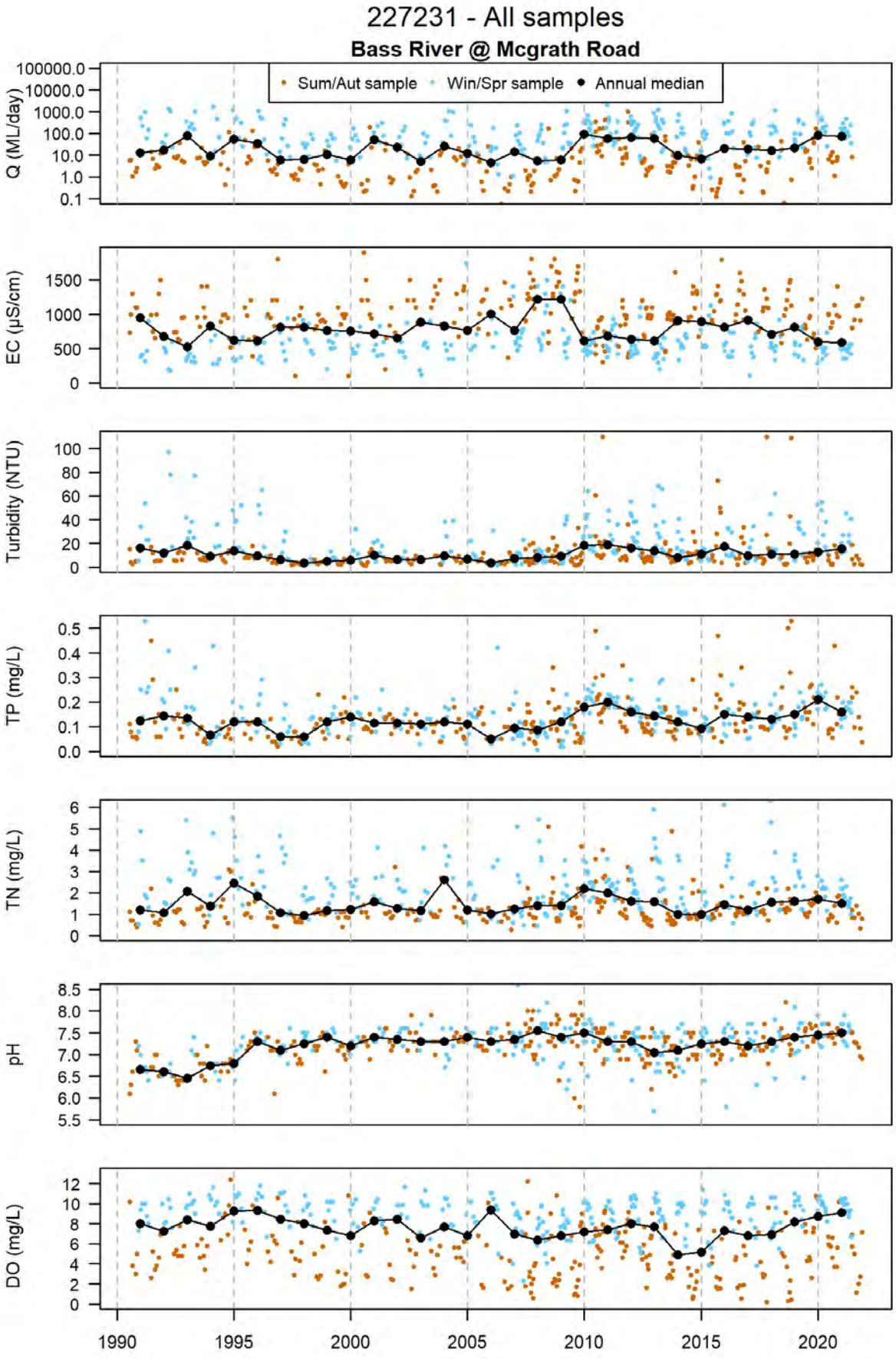

227211 - ERS attainment
Agnes River @ Toora
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

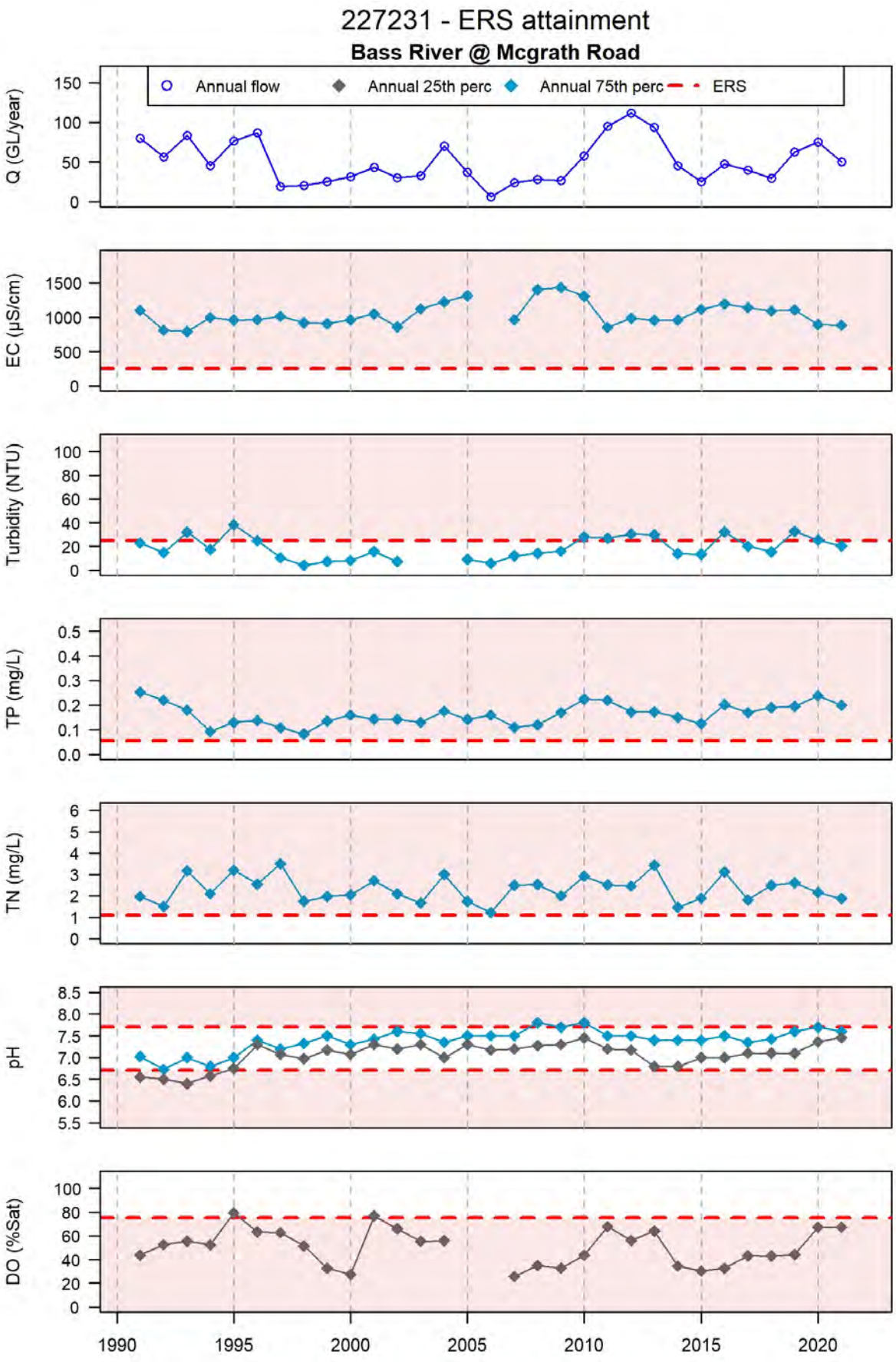

227237 - All samples
Franklin River @ Toora
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020


227237 - ERS attainment
Franklin River @ Toora
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

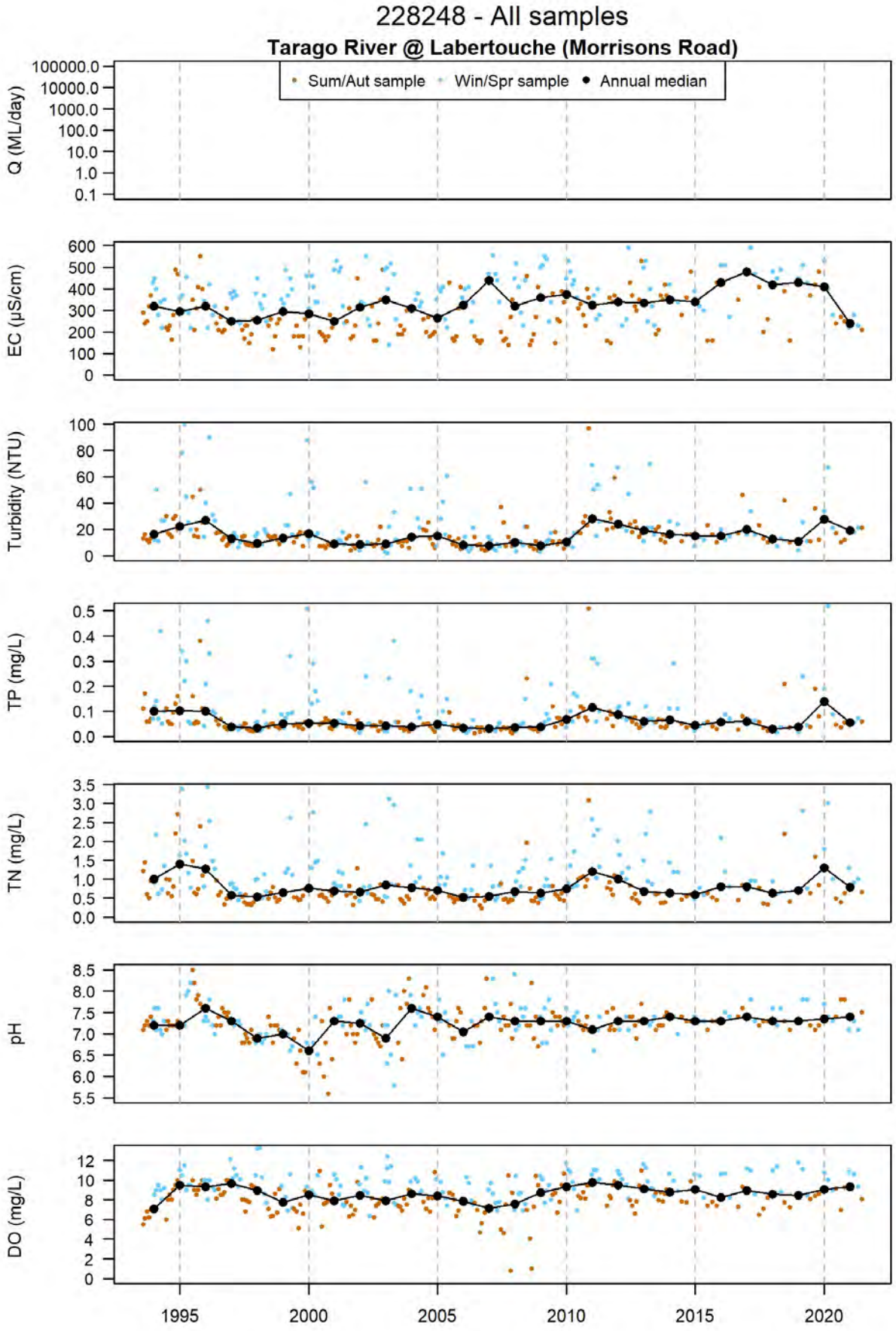

227202 - All samples
Tarwin River @ Meeniyan
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

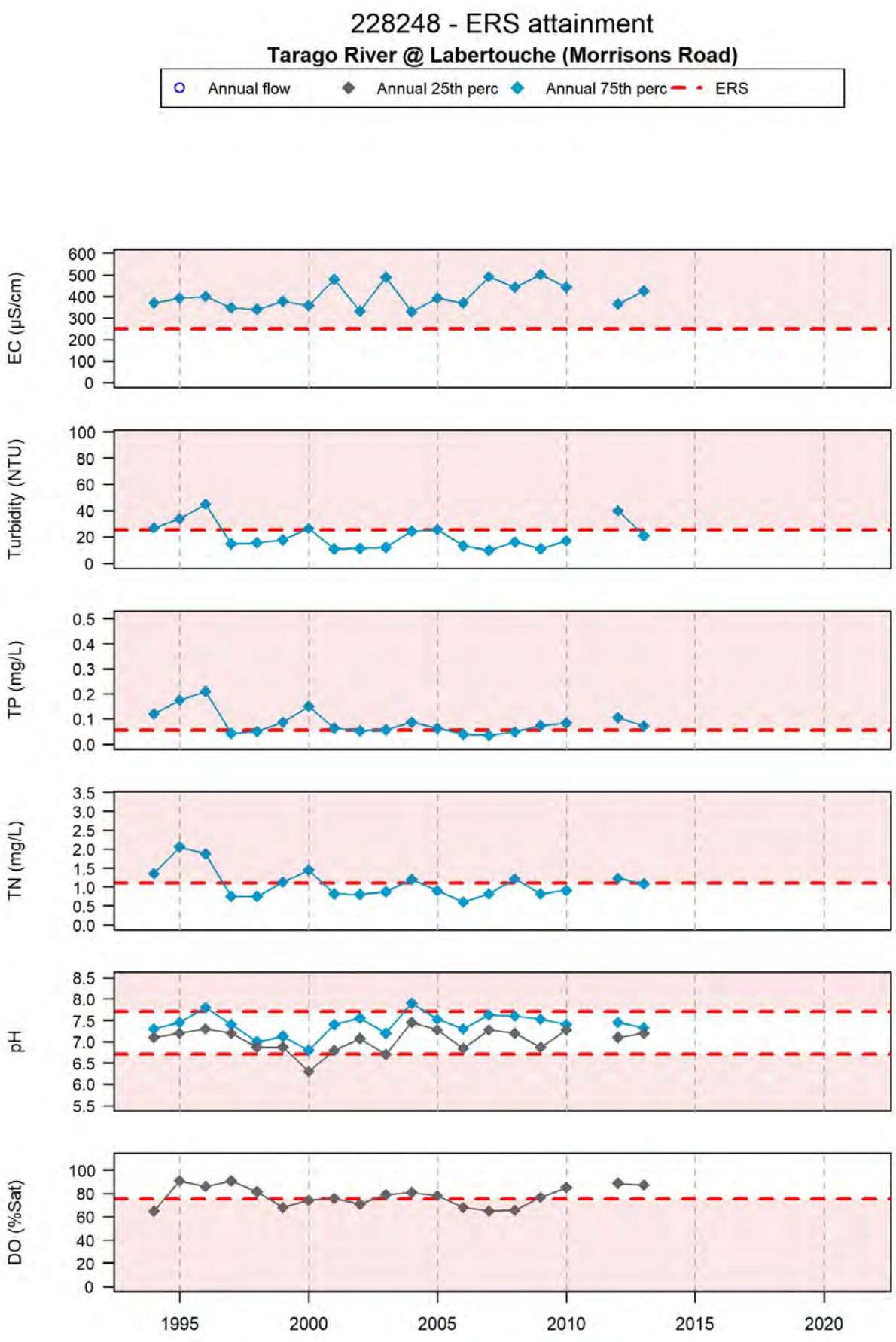

227202 - ERS attainment
Tarwin River @ Meeniyan
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

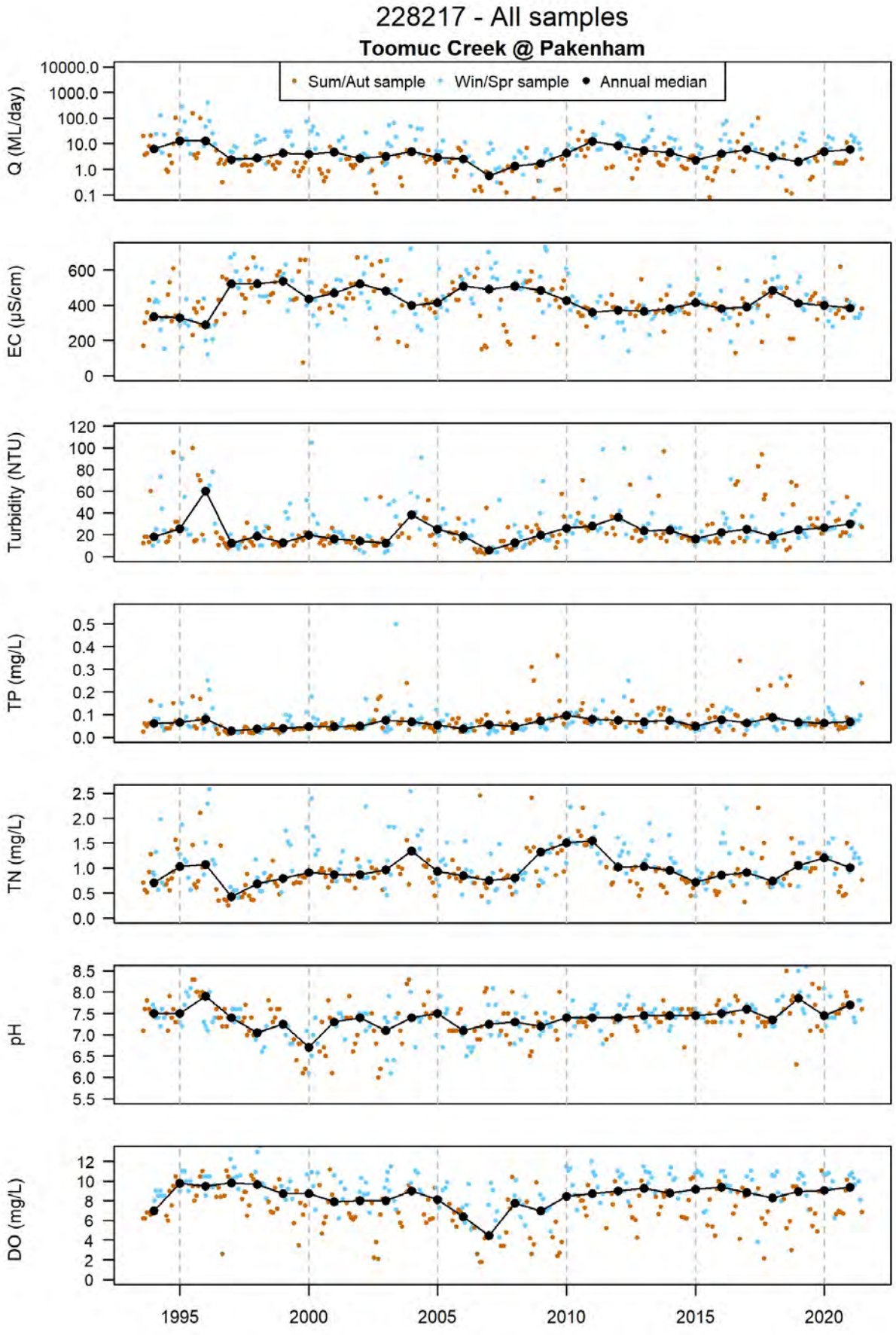

227231 - All samples
Bass River @ Mcgrath Road
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

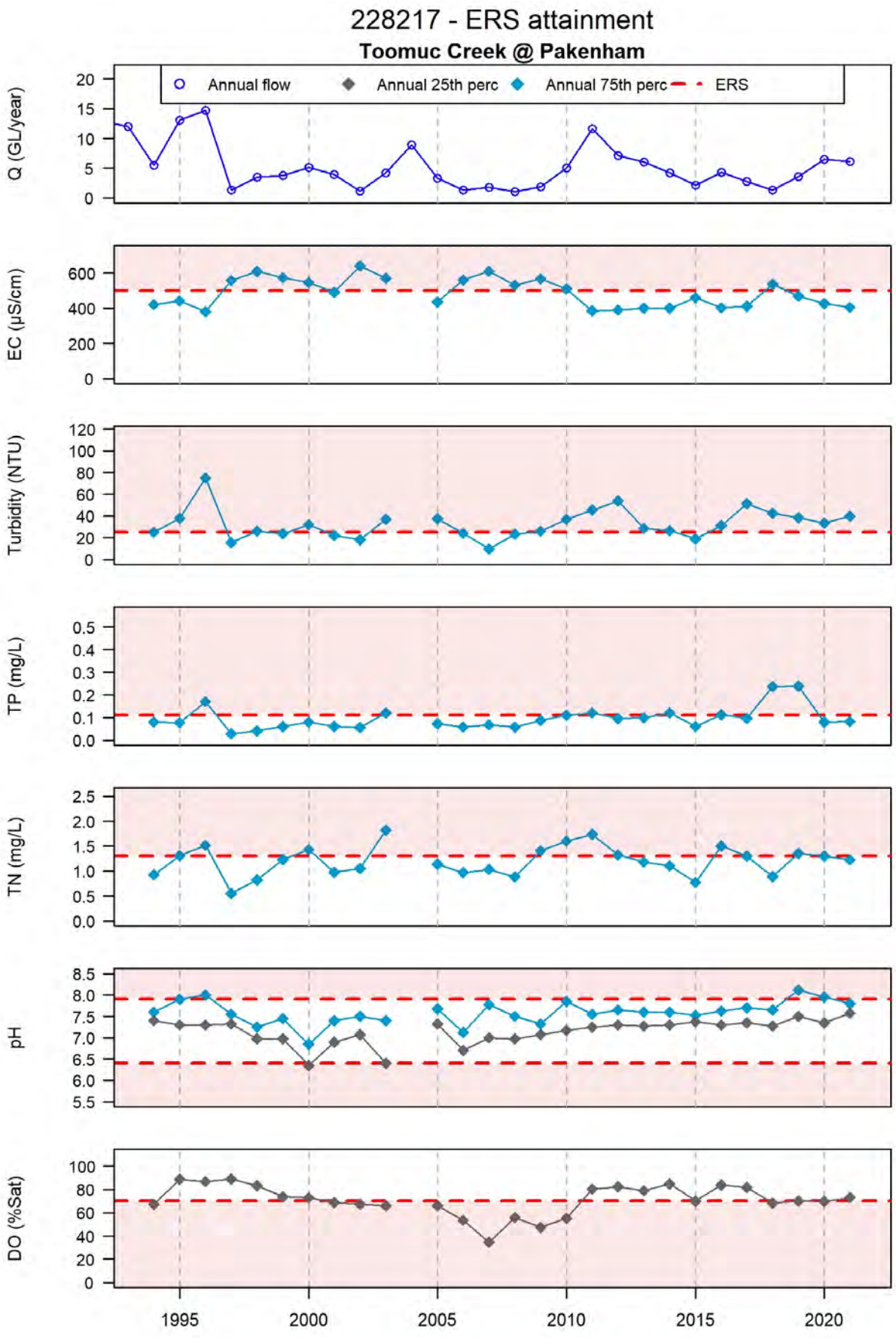

227231 - ERS attainment
Bass River @ Mcgrath Road
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

Bunyip Basin

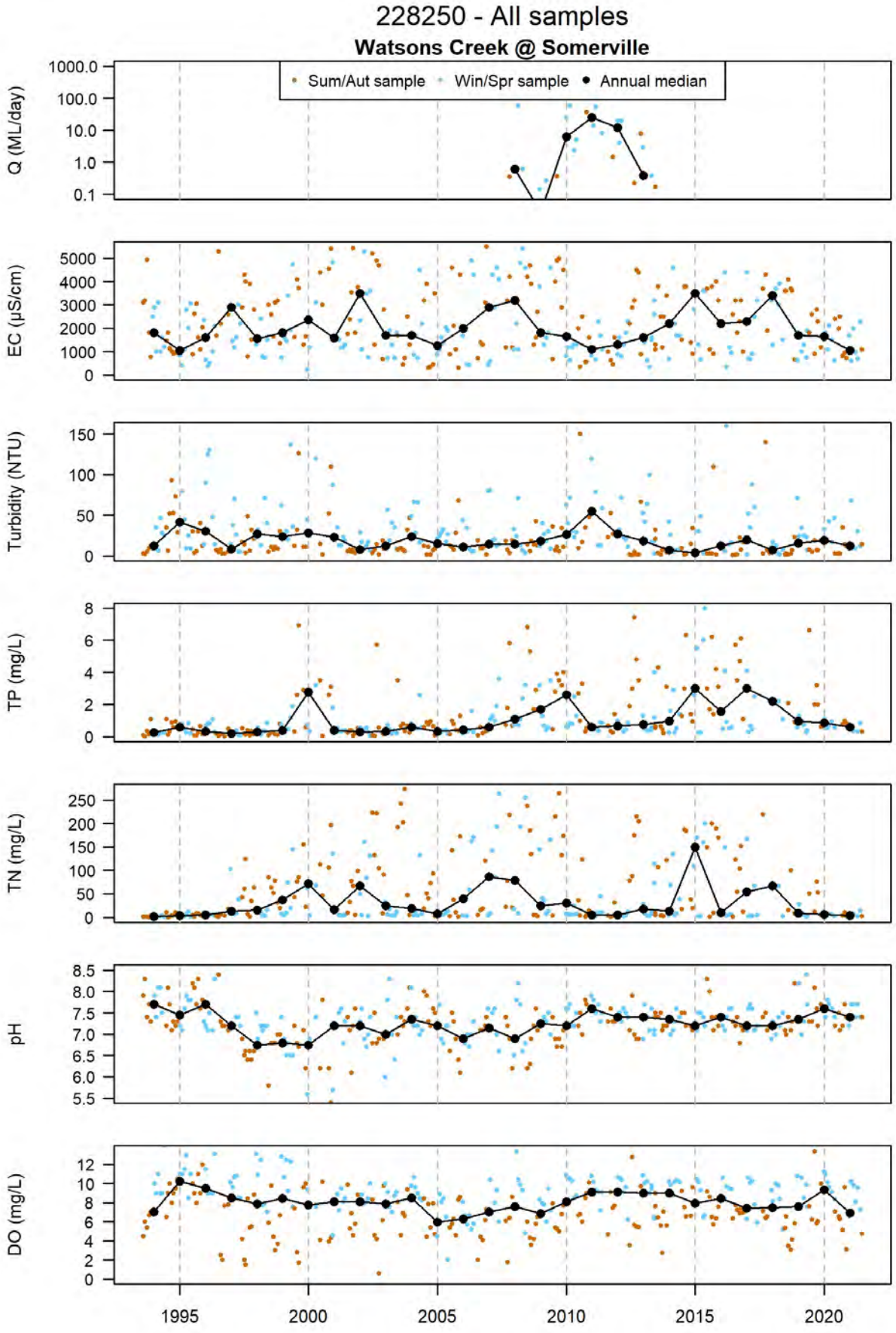


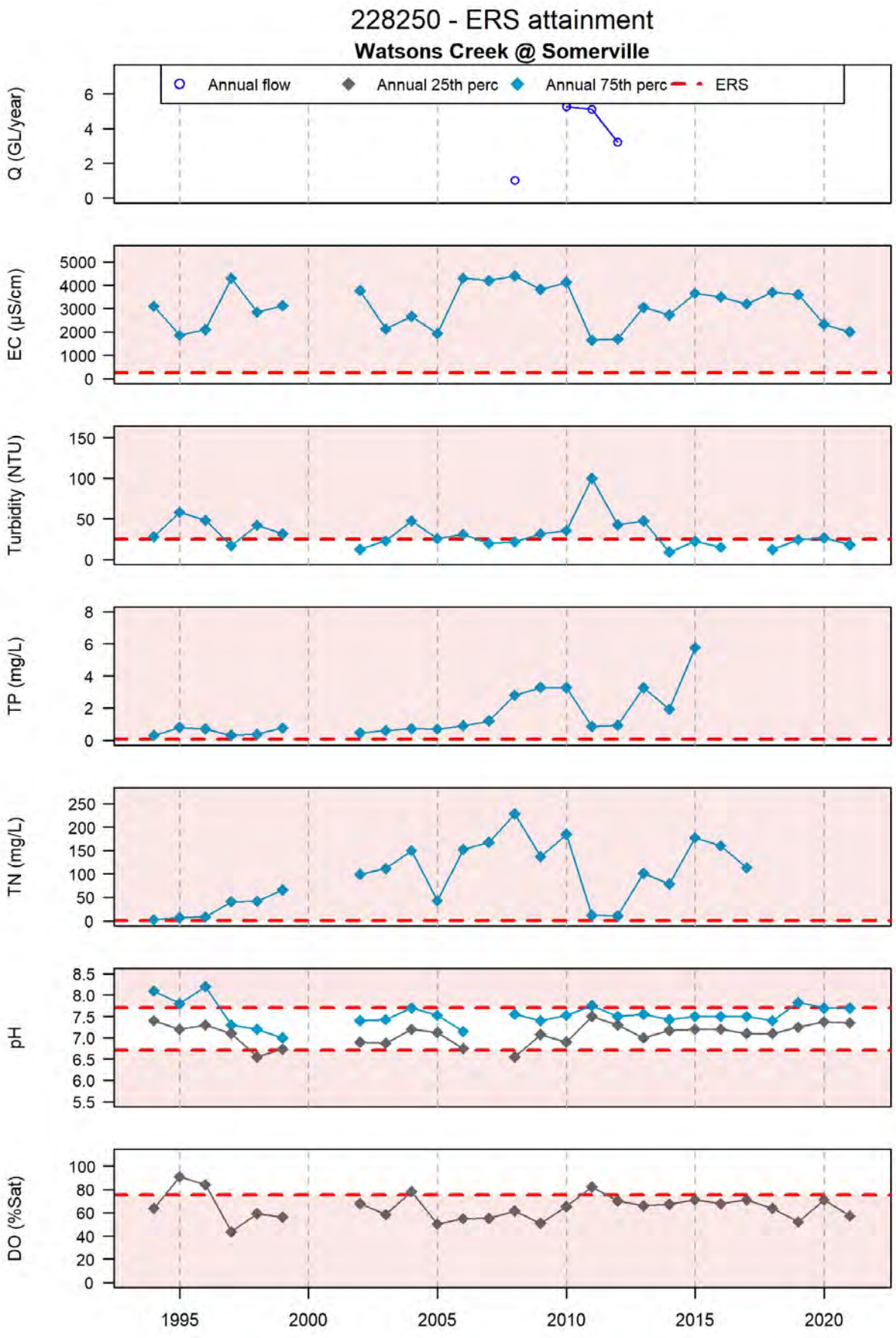

228248 - ERS attainment
Tarago River @ Labertouche (Morrisons Road)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

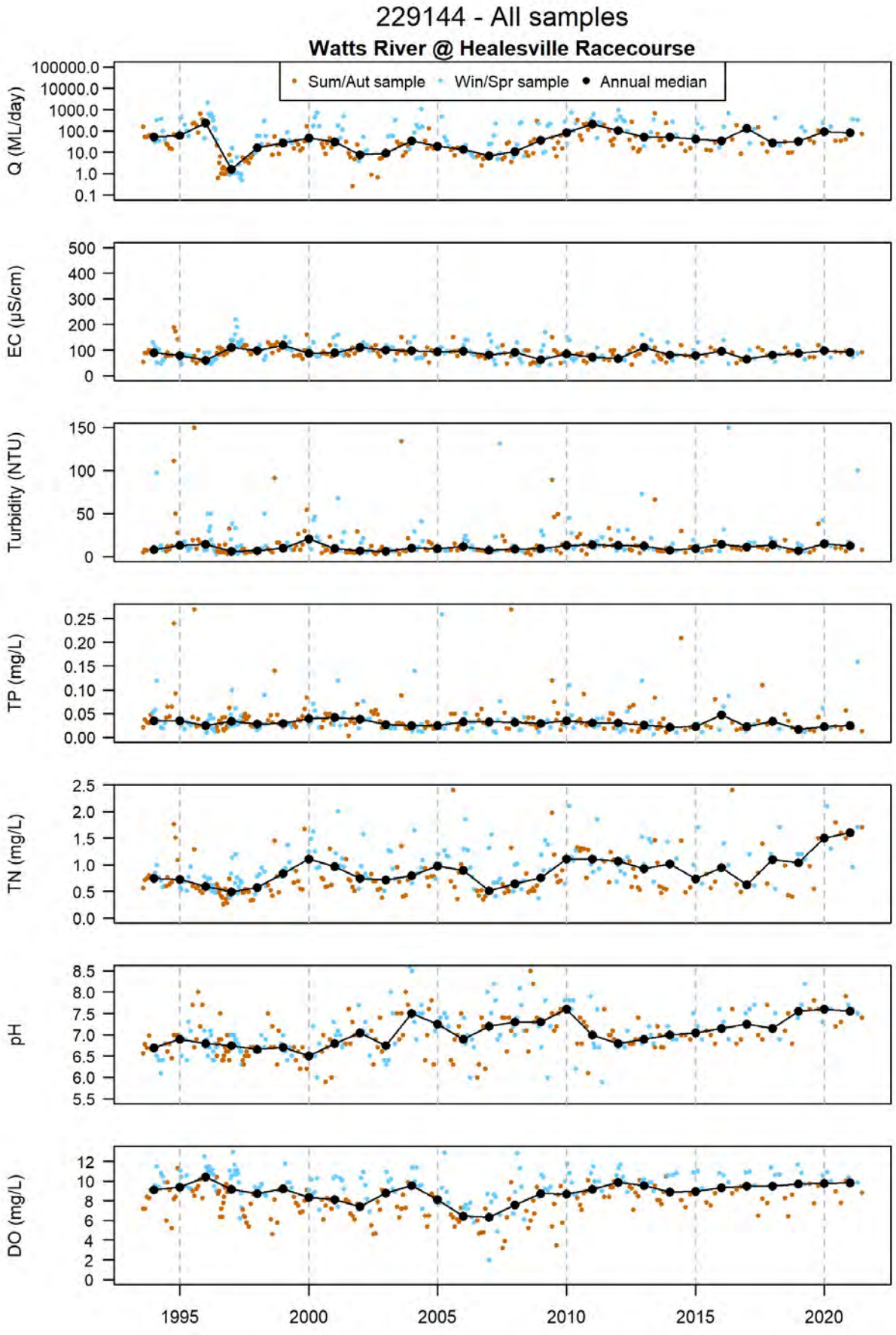

228217 - All samples
Toomuc Creek @ Pakenham
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

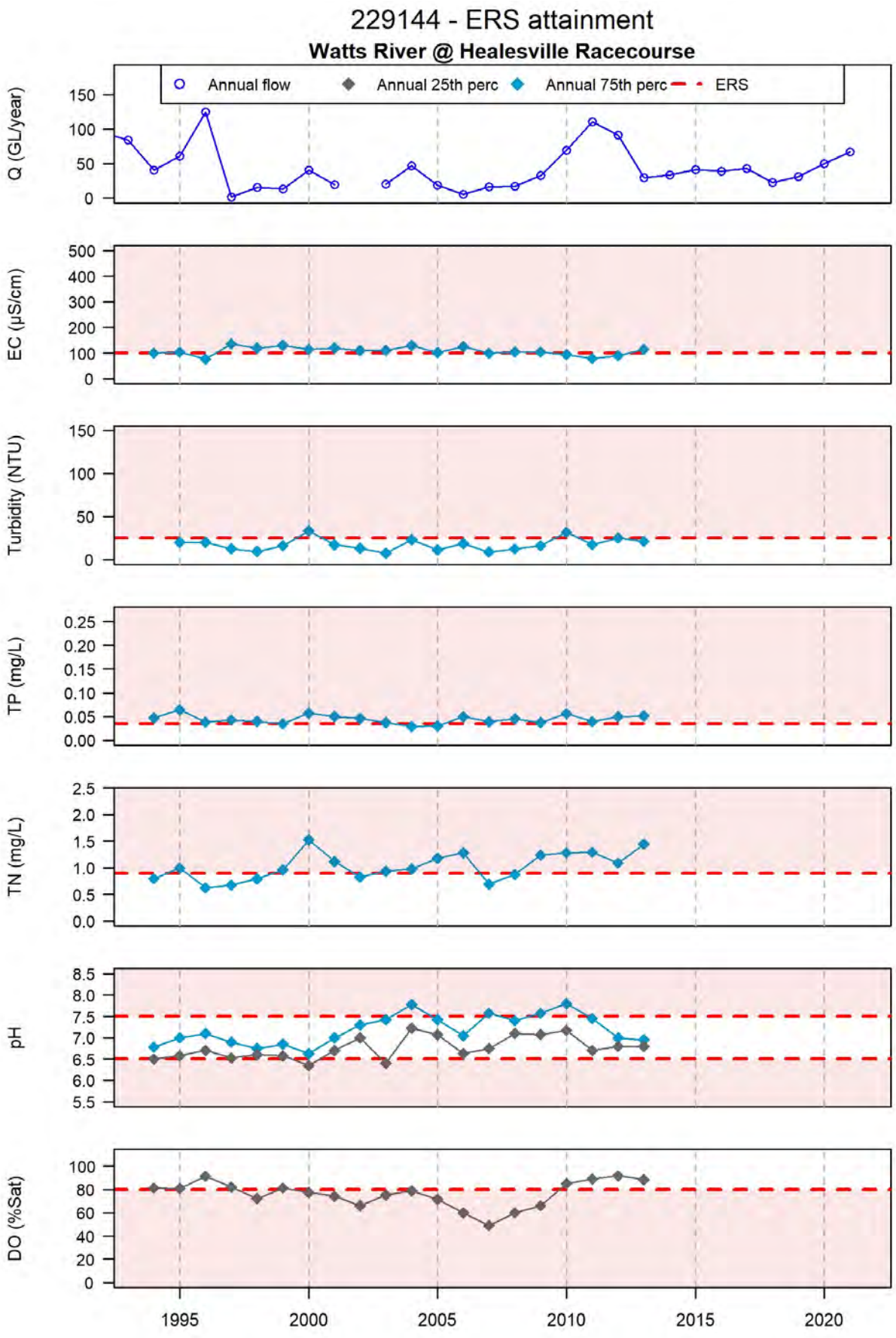

228217 - ERS attainment
Toomuc Creek @ Pakenham
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

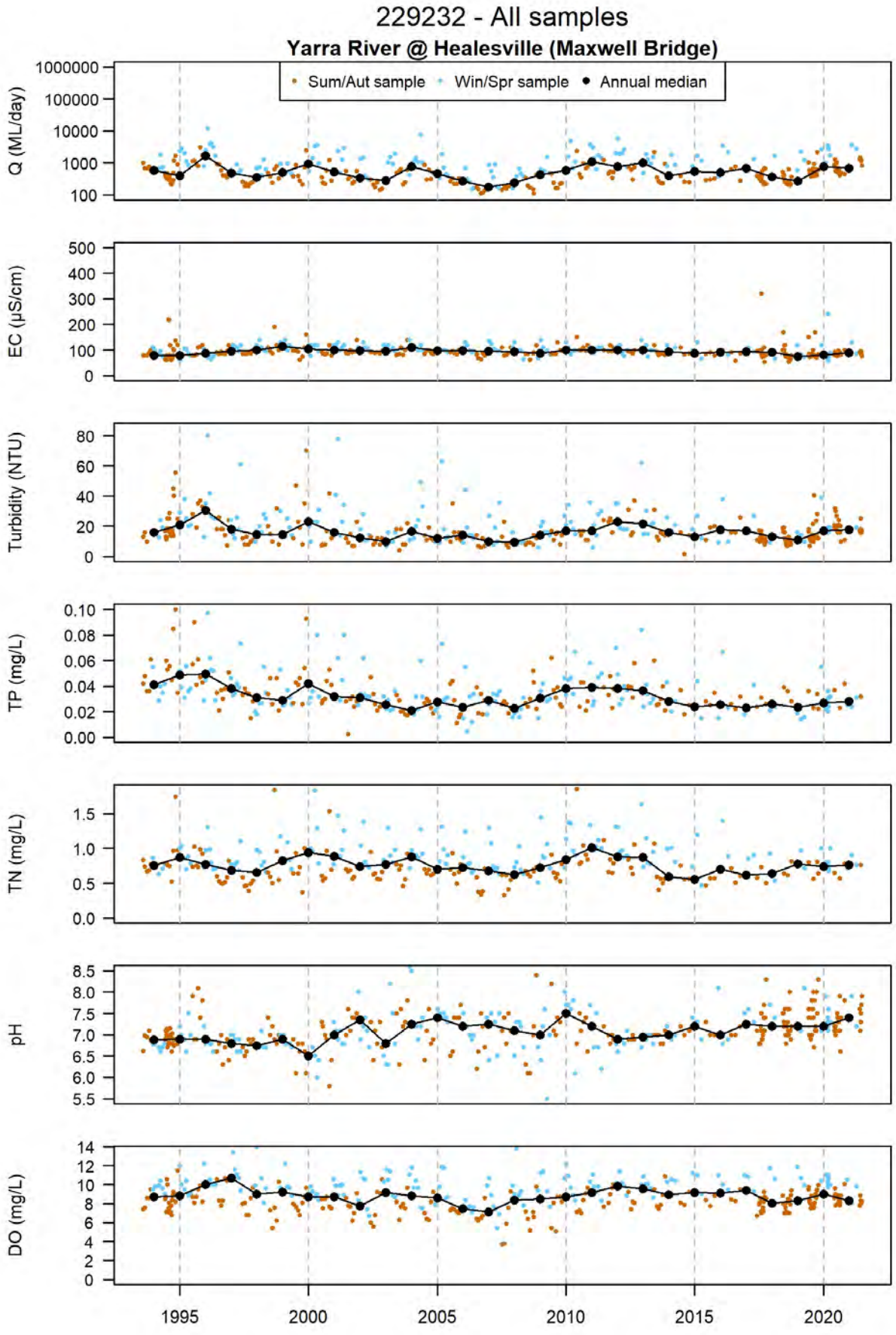
Yarra Basin

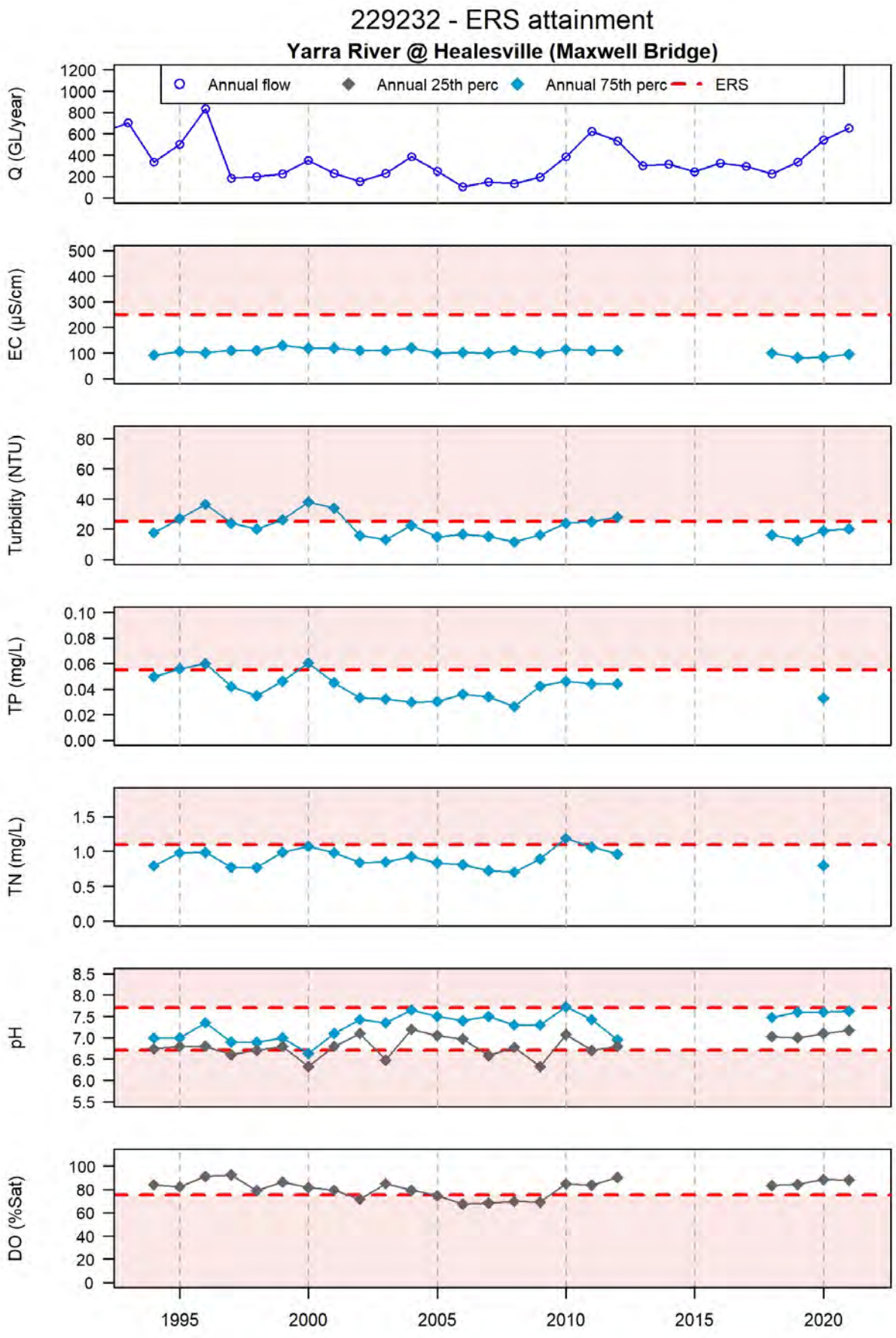

228250 - All samples
Watsons Creek @ Somerville
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

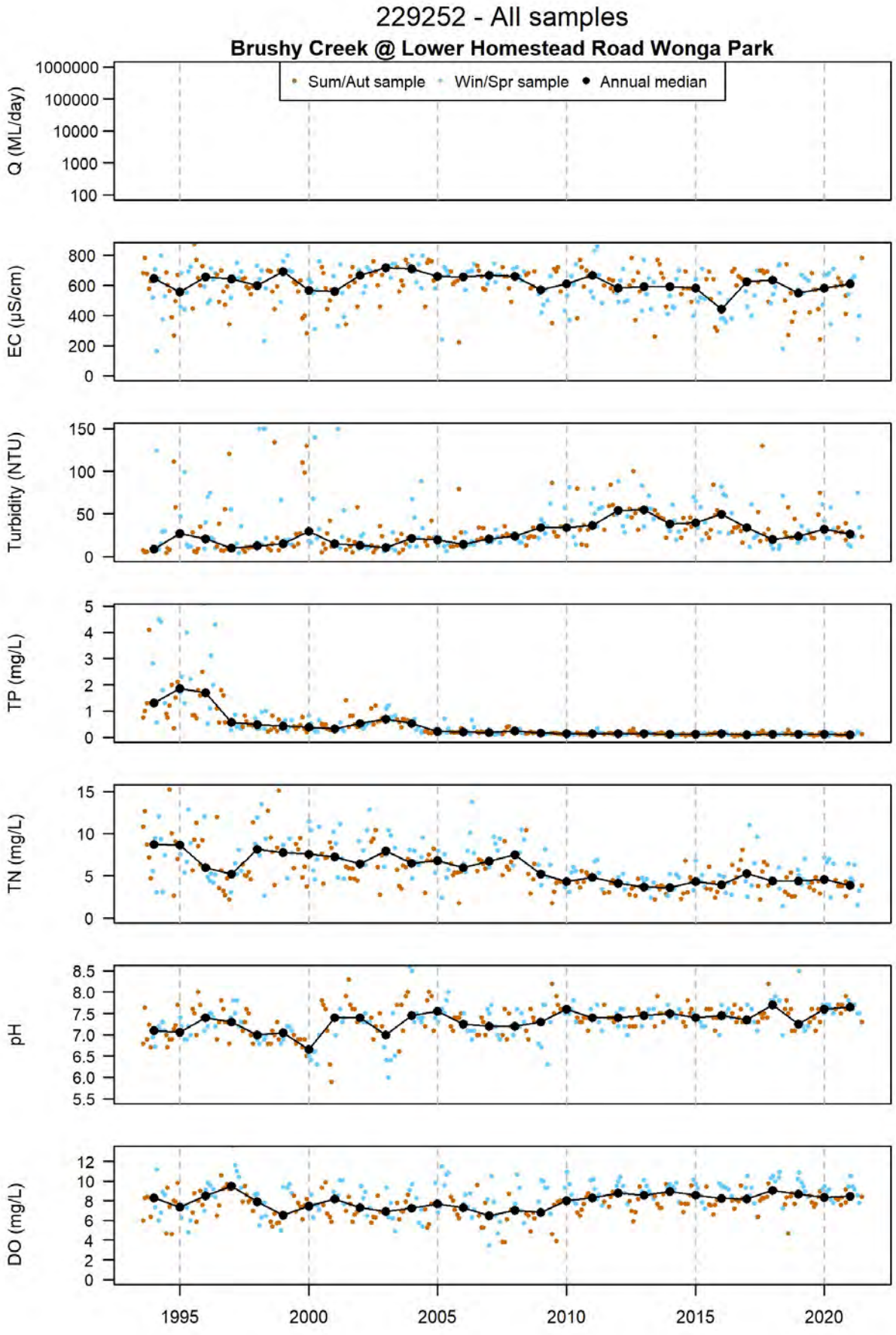

228250 - ERS attainment
Watsons Creek @ Somerville
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

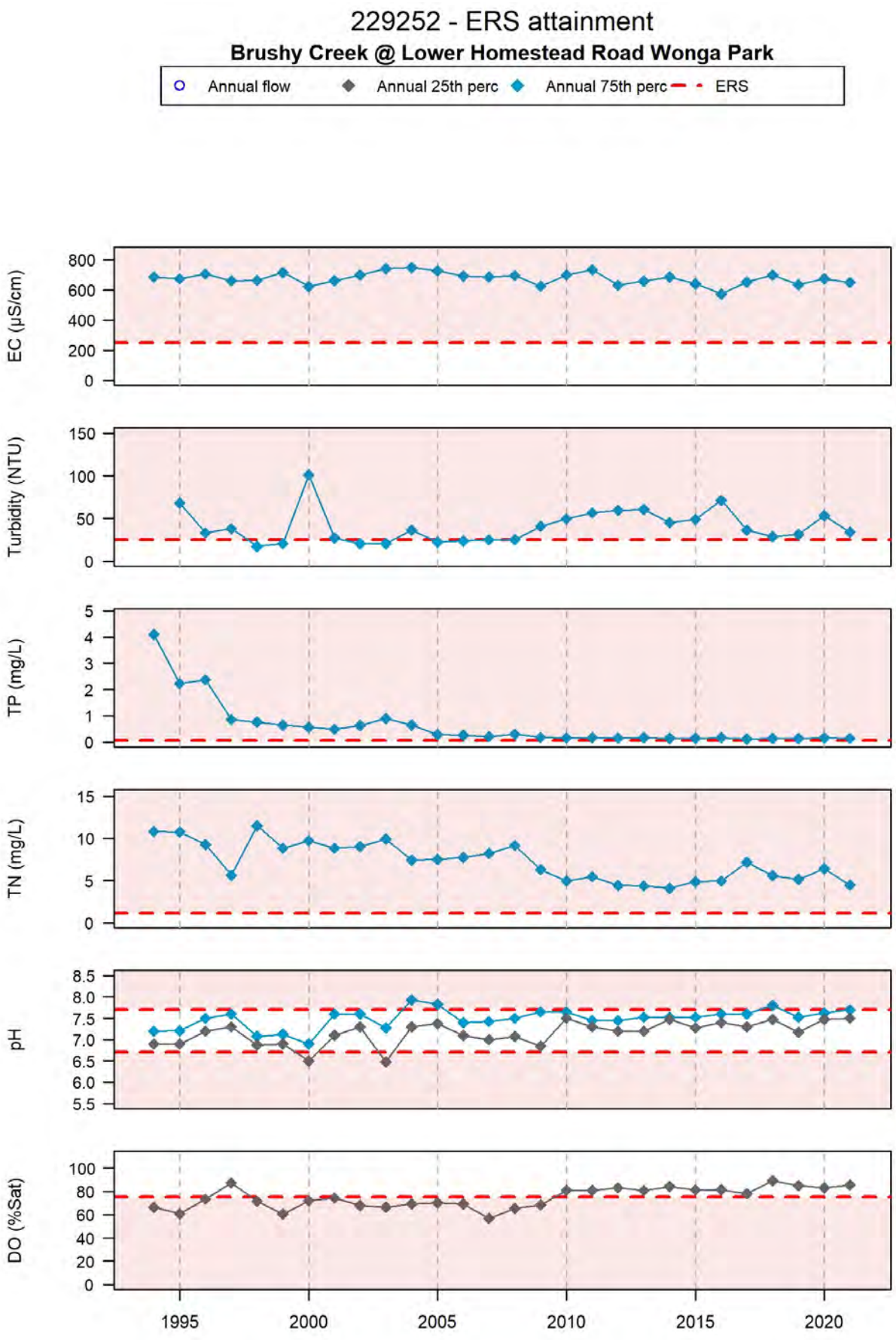

229144 - All samples
Watts River @ Healesville Racecourse
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

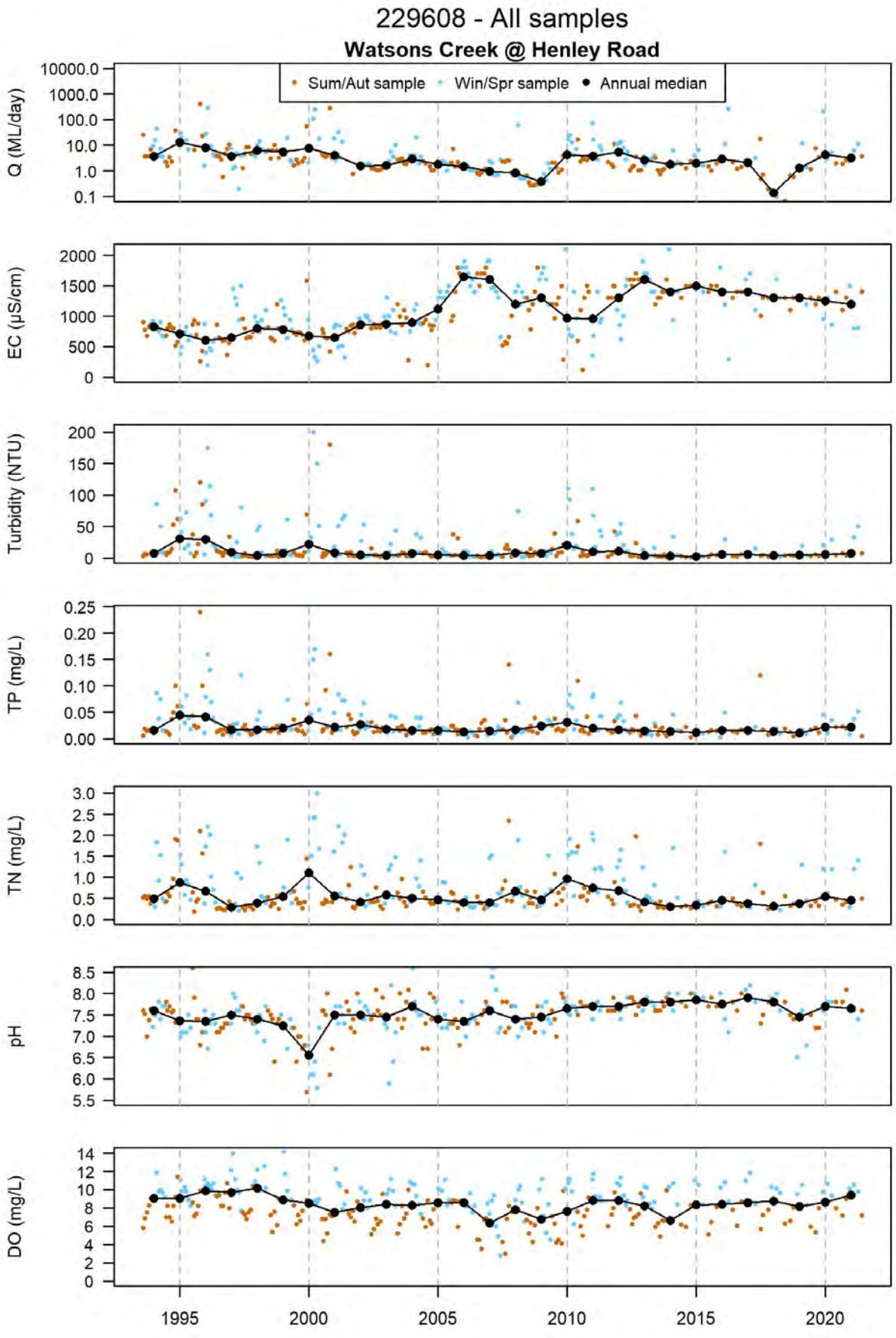

229144 - ERS attainment
Watts River @ Healesville Racecourse
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

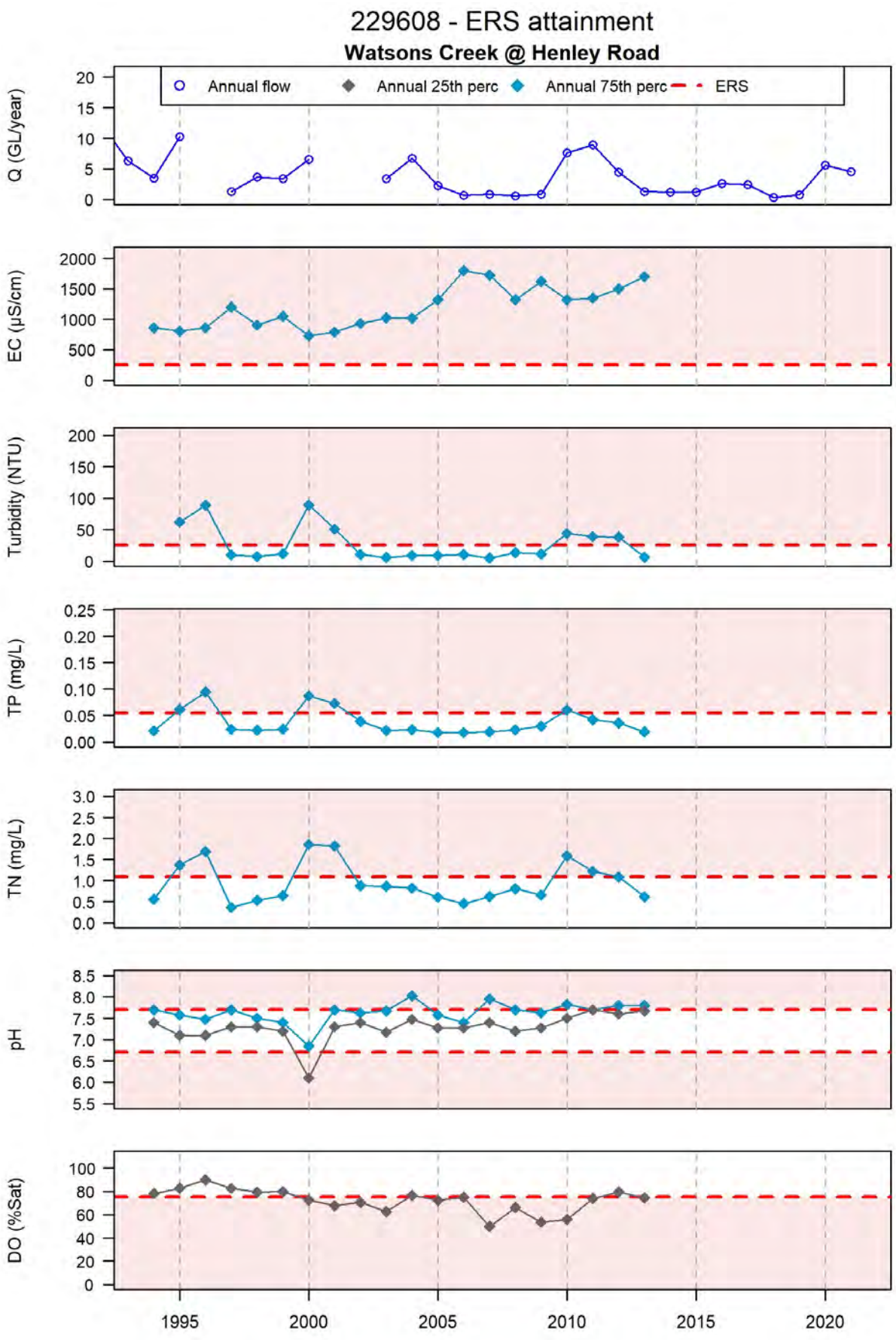

229232 - All samples
Yarra River @ Healesville (Maxwell Bridge)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

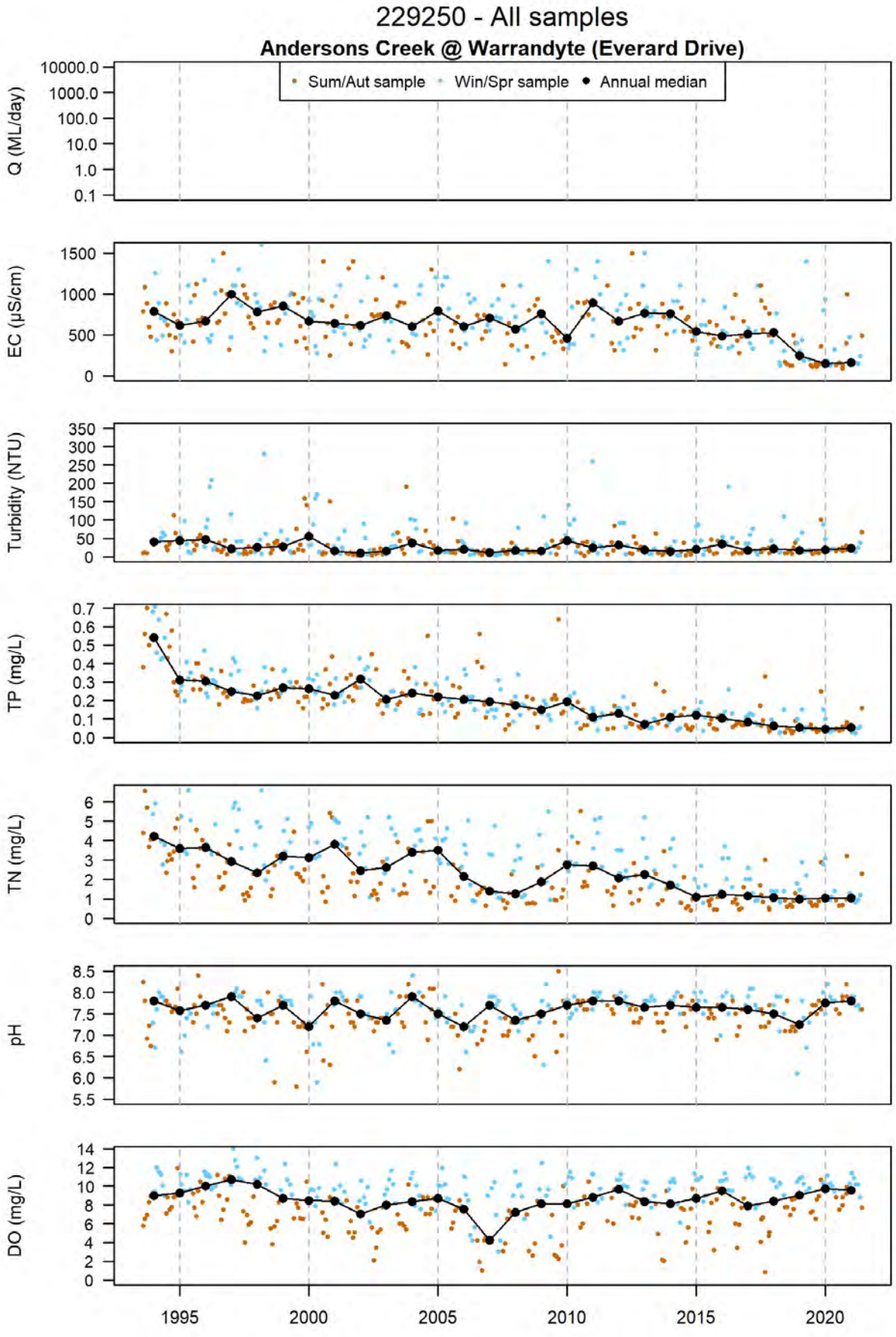

229232 - ERS attainment
Yarra River @ Healesville (Maxwell Bridge)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

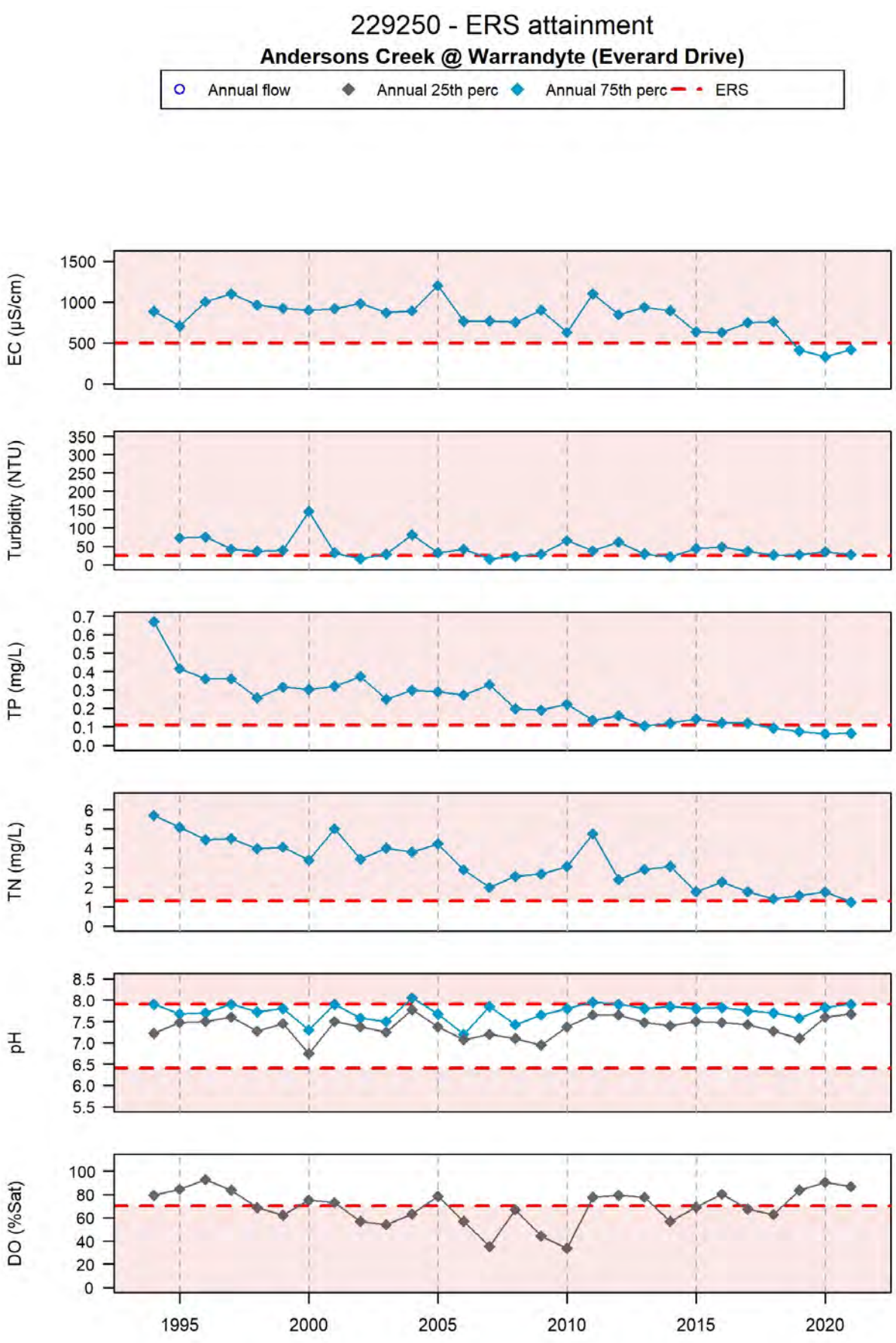

229252 - All samples
Brushy Creek @ Lower Homestead Road Wonga Park
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

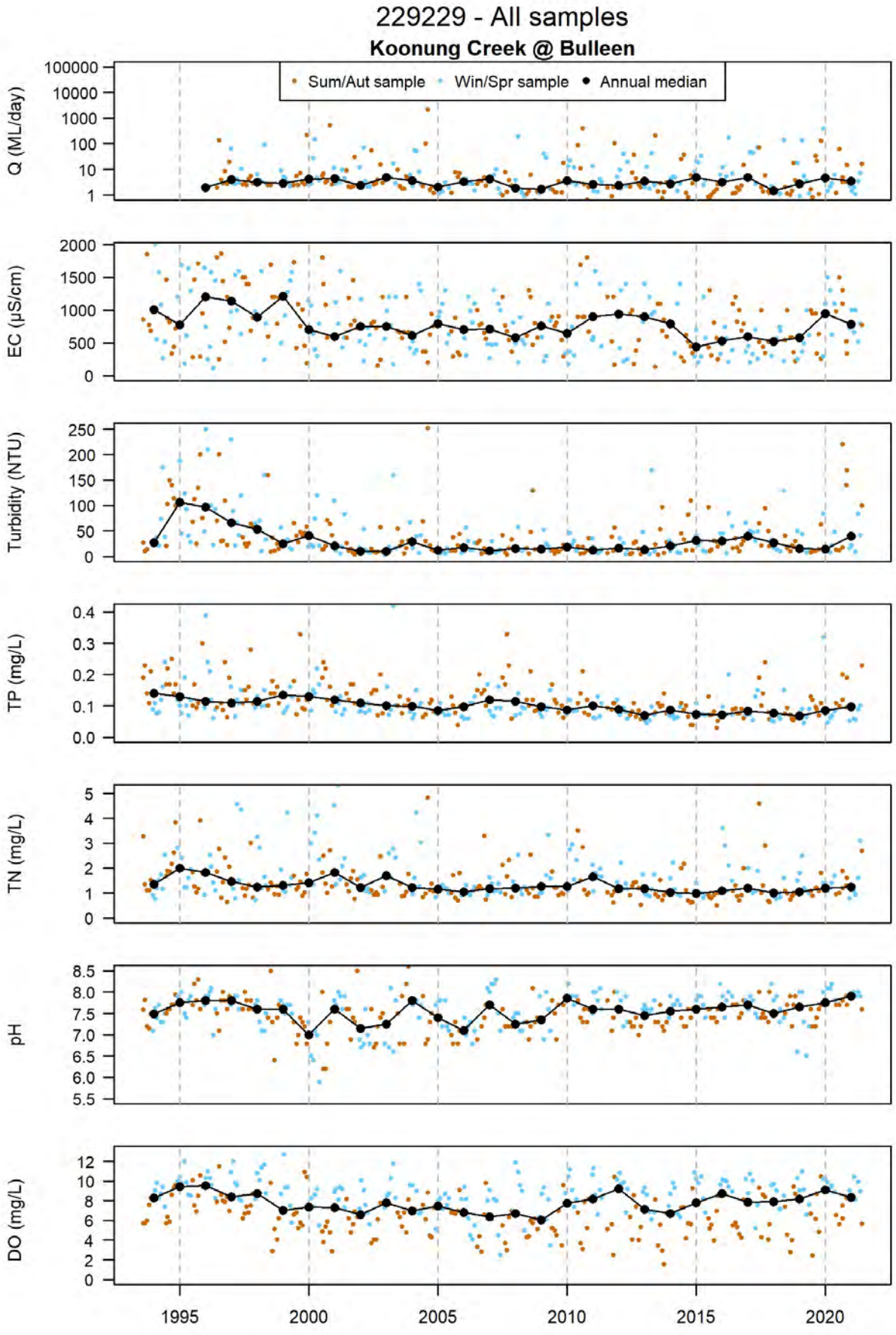

229252 - ERS attainment
Brushy Creek @ Lower Homestead Road Wonga Park
Annual flow
Annual 25th perc
Annual 75th perc
ERS
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

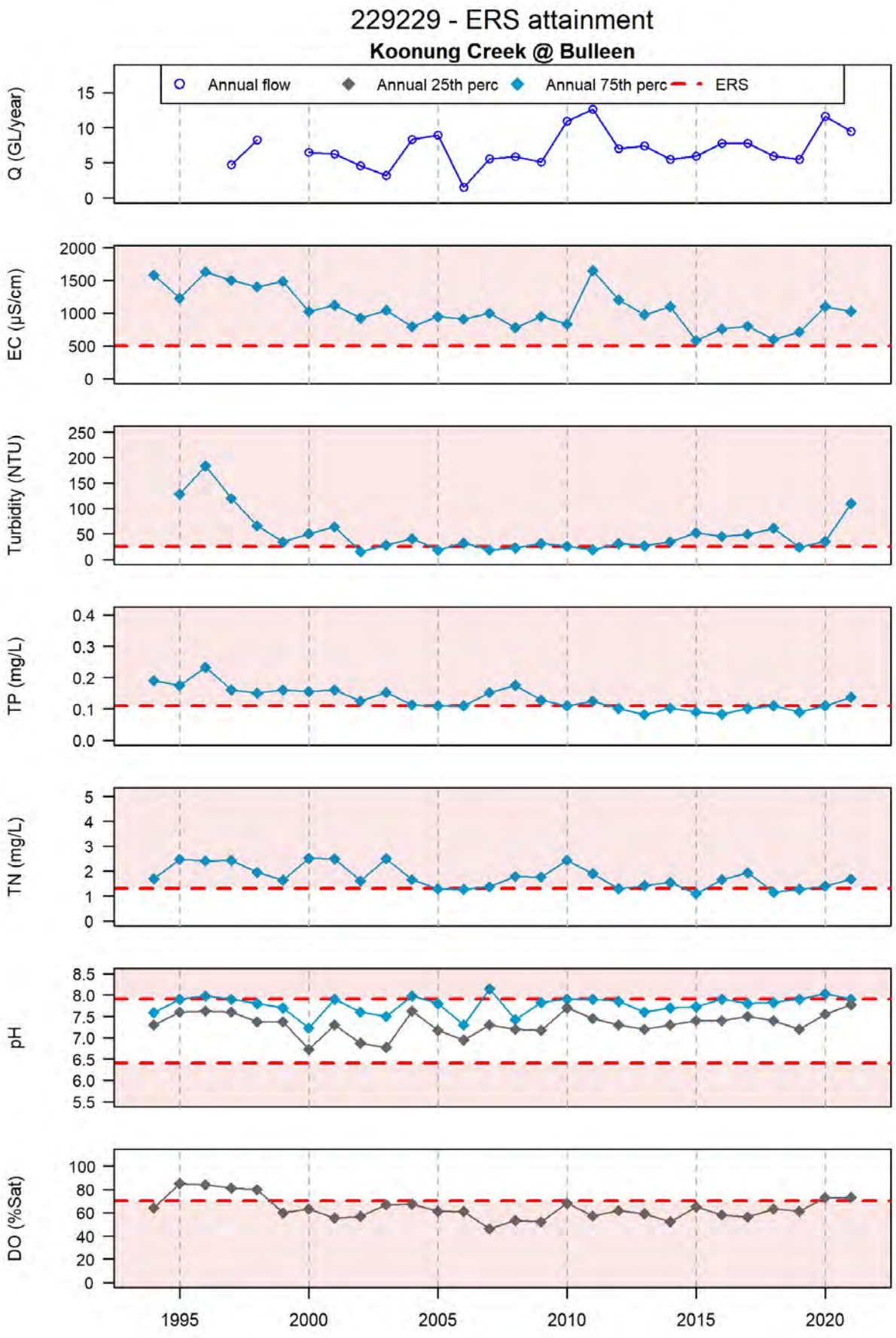

229608 - All samples
Watsons Creek @ Henley Road
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

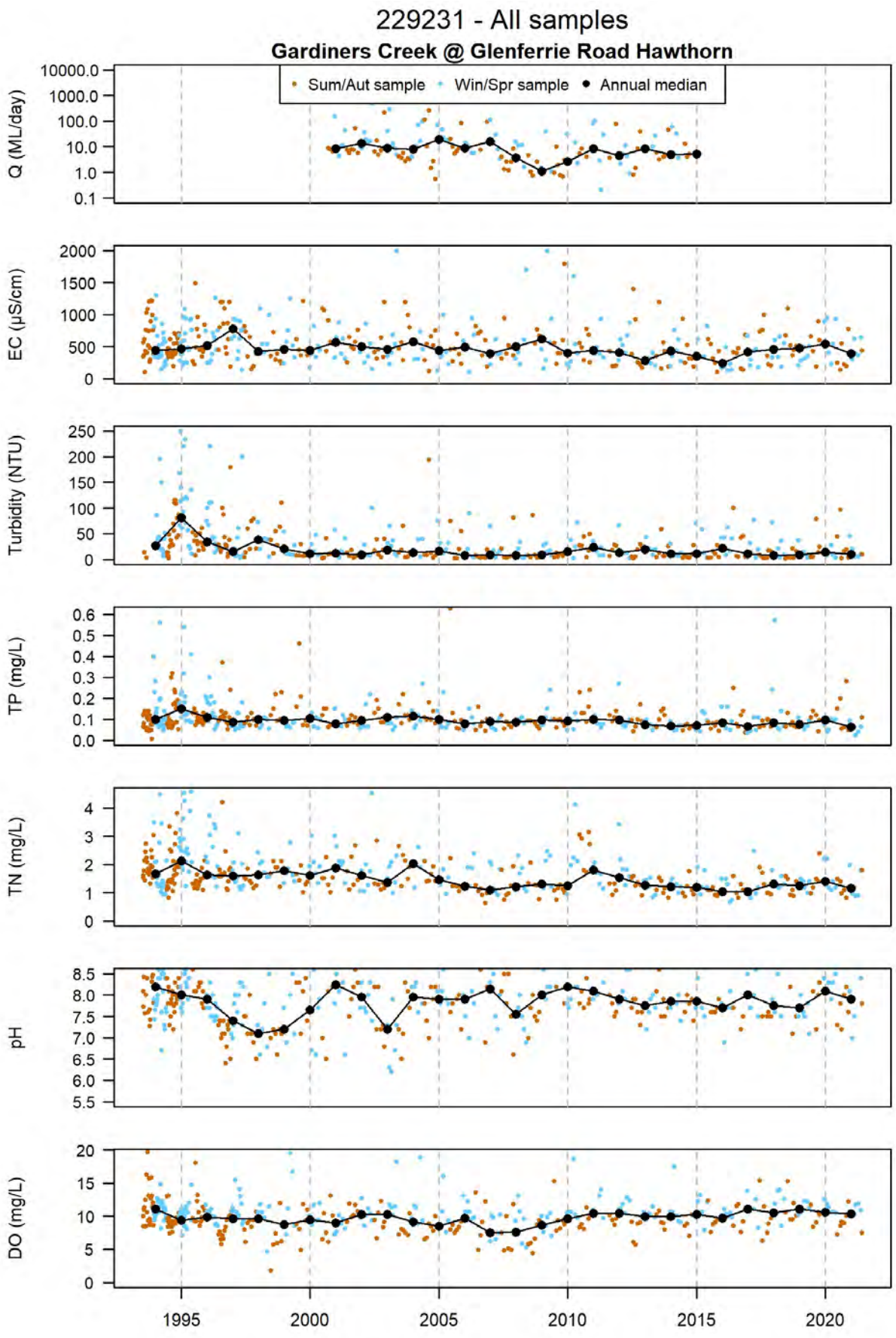

229608 - ERS attainment
Watsons Creek @ Henley Road
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

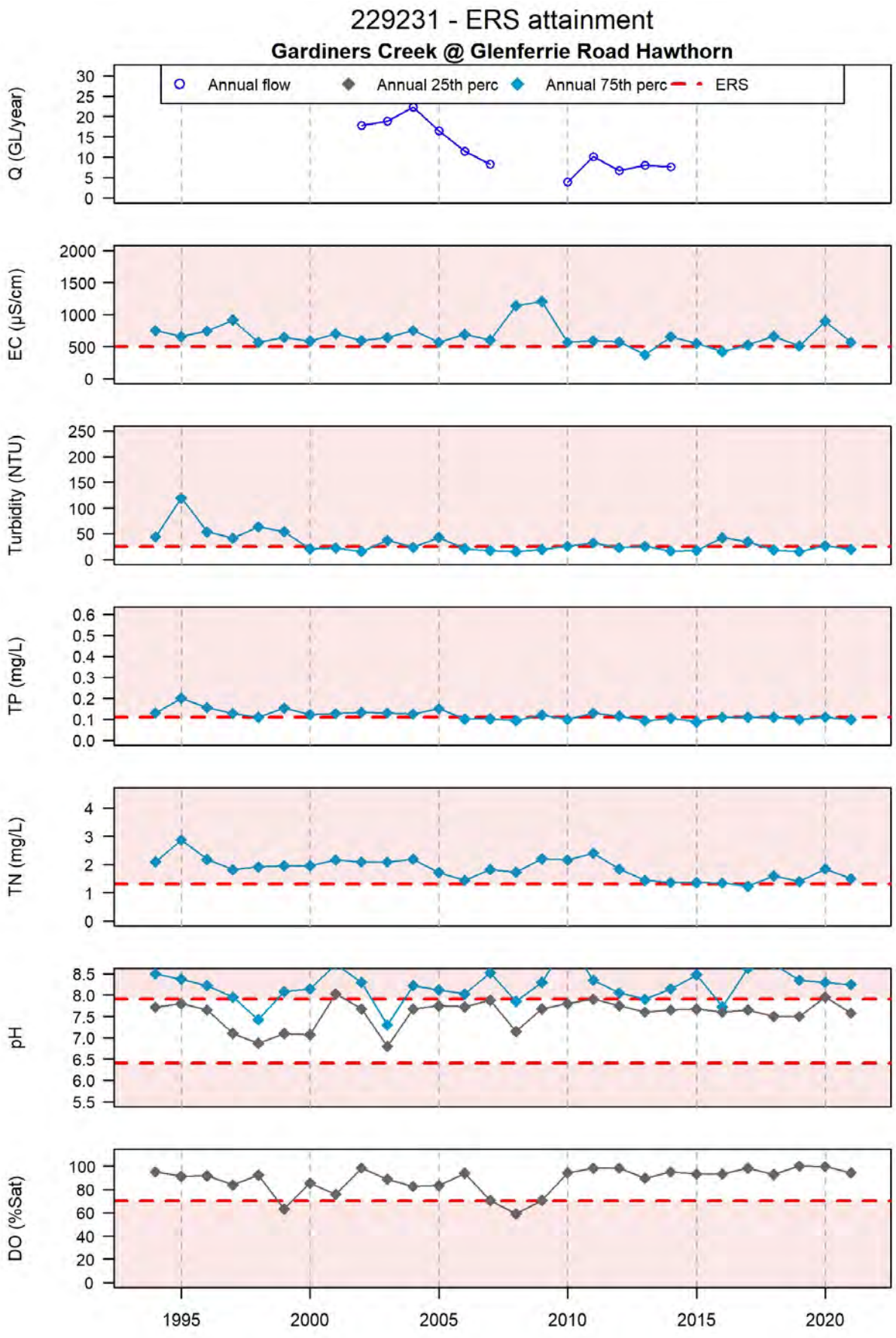

229250 - All samples
Andersons Creek @ Warrandyte (Everard Drive)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

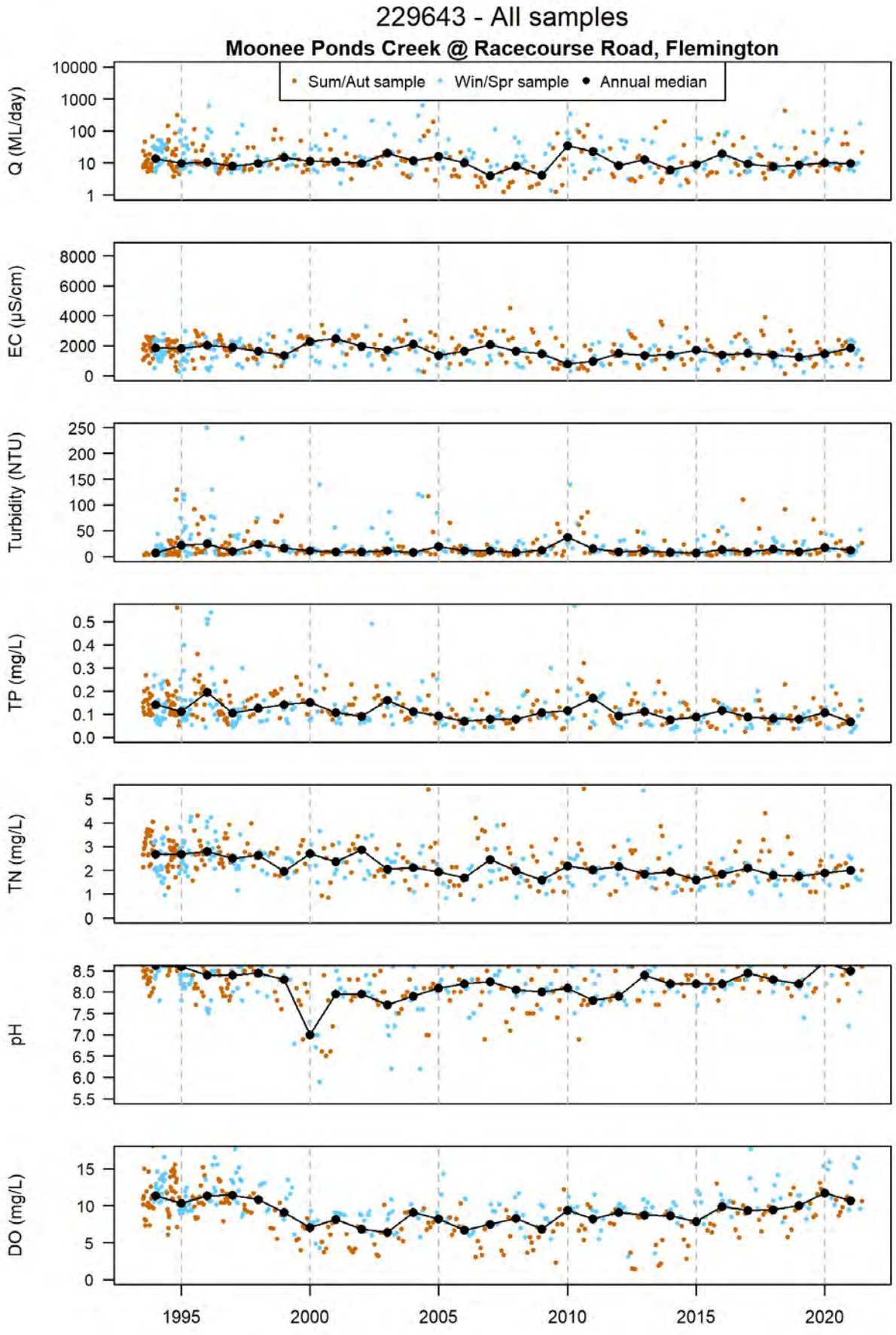

229250 - ERS attainment
Andersons Creek @ Warrandyte (Everard Drive)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
EC (µS/cm)
1500
1000
500
0
Turbidity (NTU)
350
300
250
200
150
100
50
0
TP (mg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
TN (mg/L)
6
5
4
3
2
1
0
pH
8.5
8.0
7.5
7.0
6.5
6.0
5.5
DO (%Sat)
100
80
60
40
20
0
1995
2000
2005
2010
2015
2020

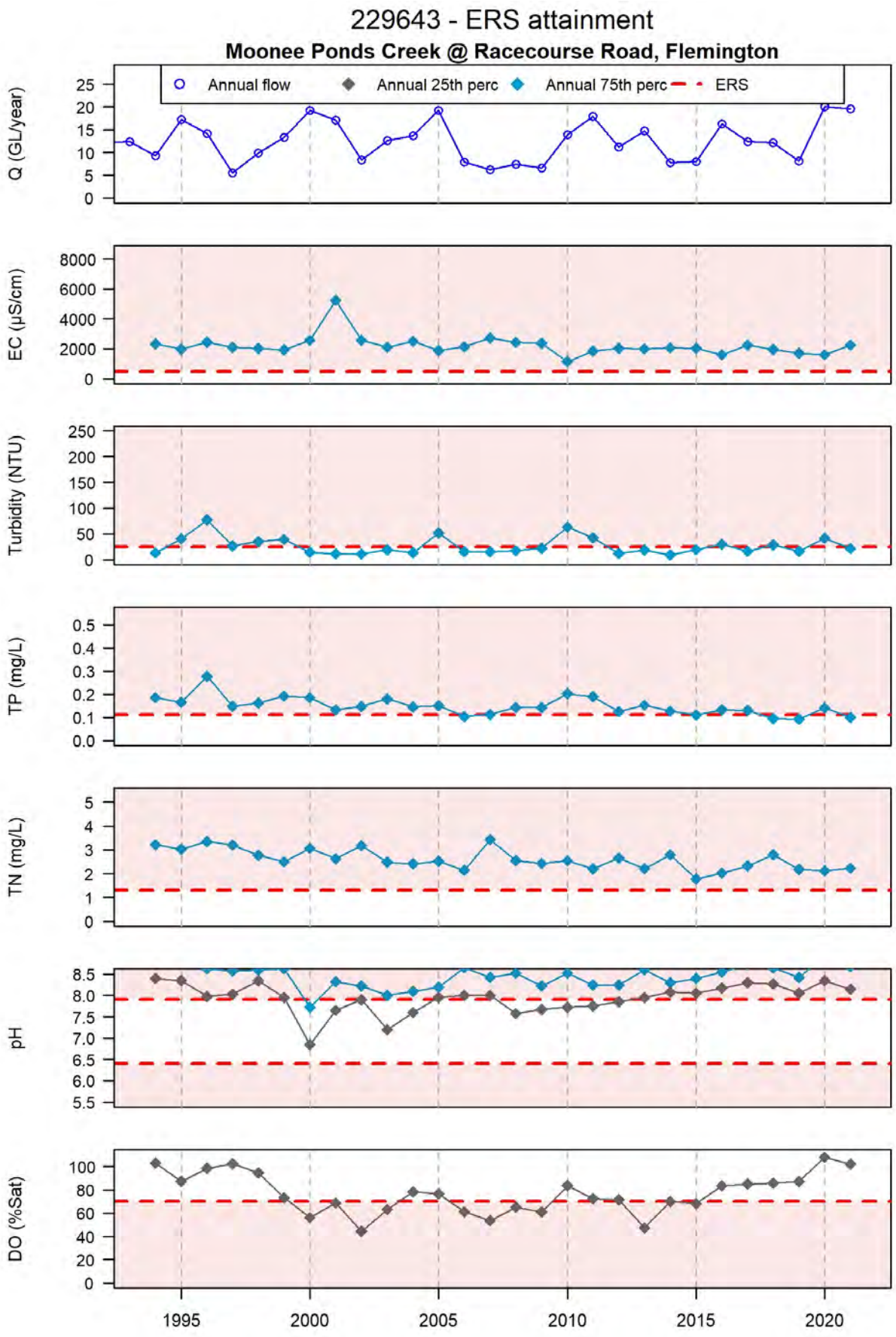

229229 - All samples
Koonung Creek @ Bulleen
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020


229229 - ERS attainment
Koonung Creek @ Bulleen
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

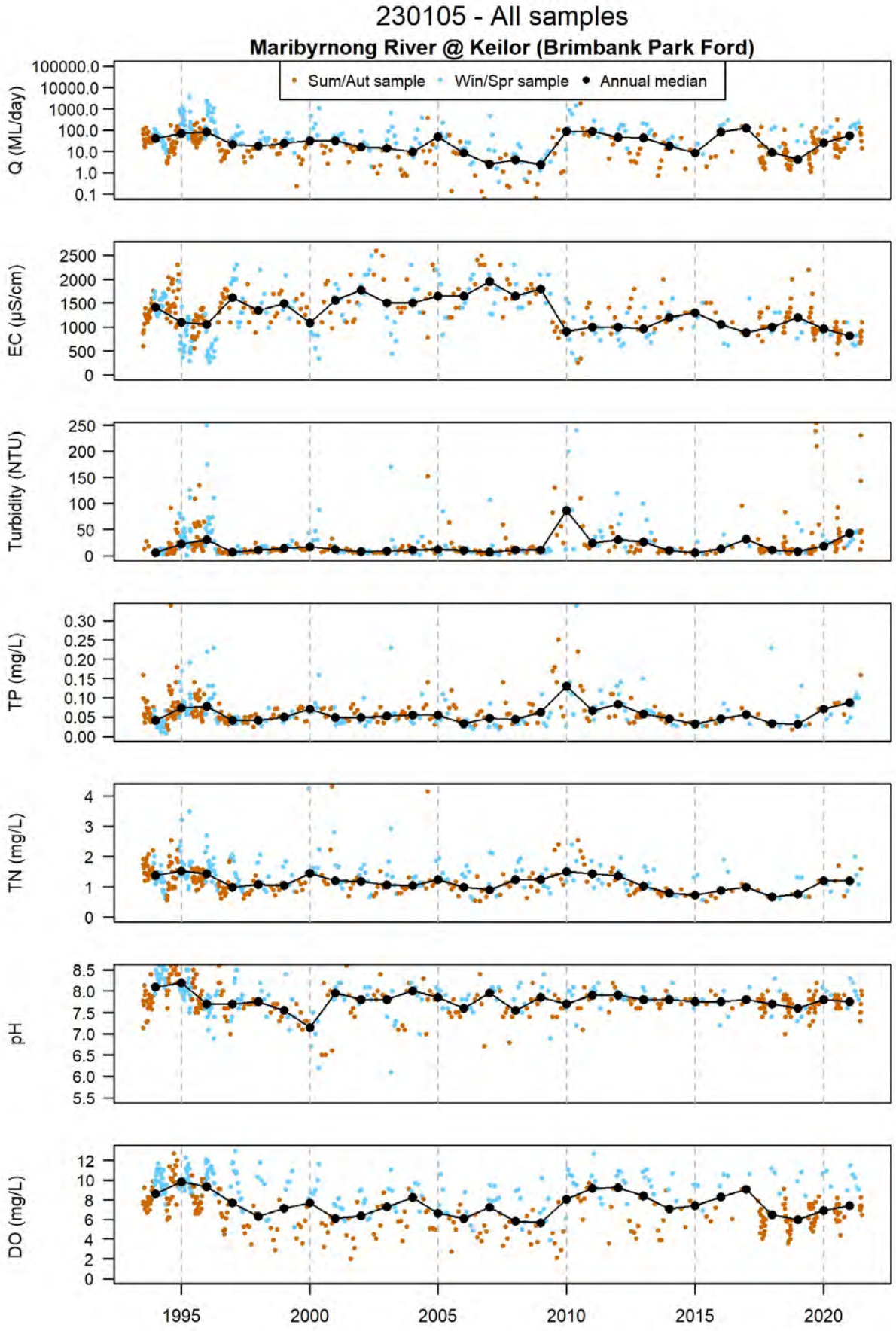

229231 - All samples
Gardiners Creek @ Glenferrie Road Hawthorn
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

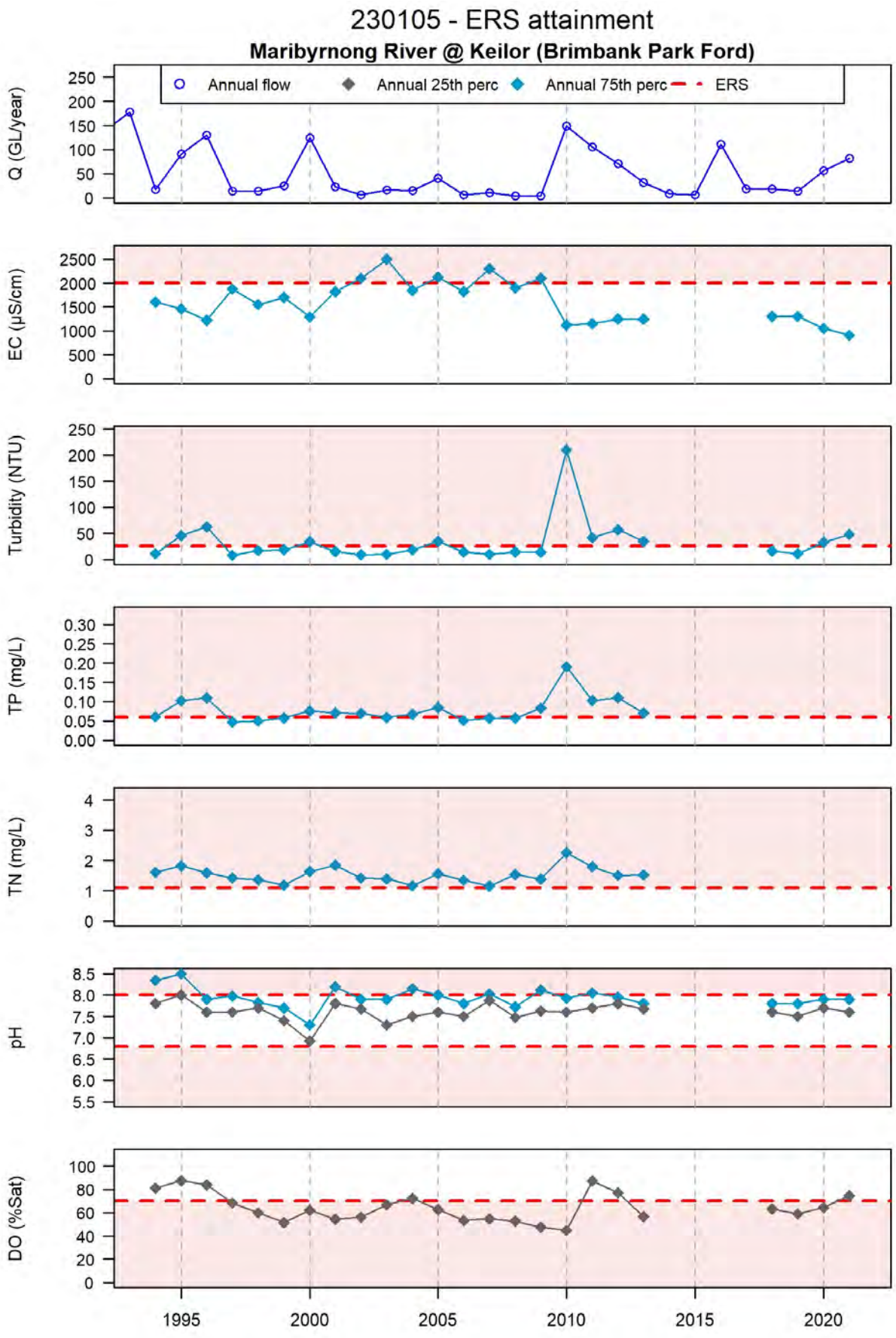

229231 - ERS attainment
Gardiners Creek @ Glenferrie Road Hawthorn
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

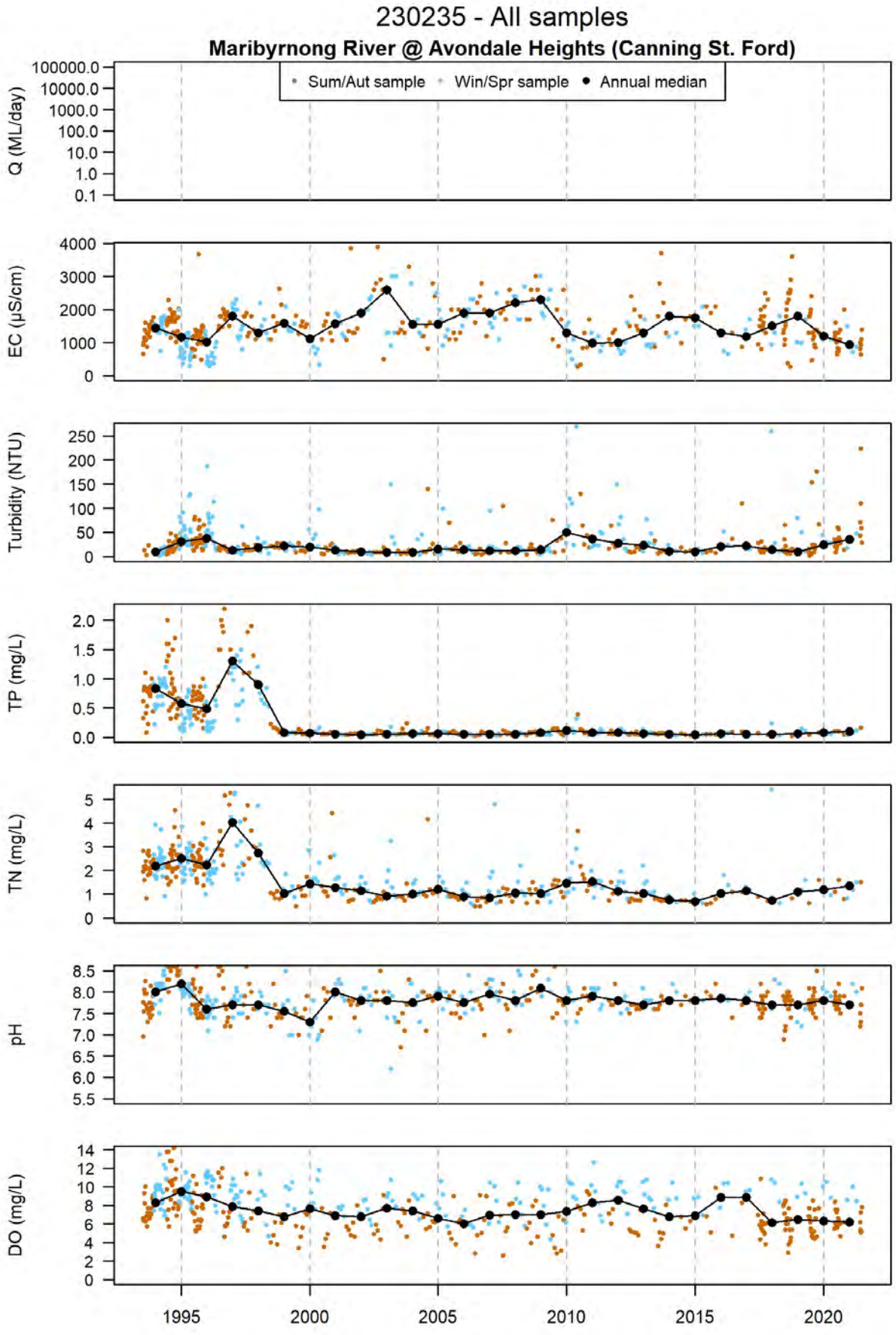

229643 - All samples
Moonee Ponds Creek @ Racecourse Road, Flemington
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

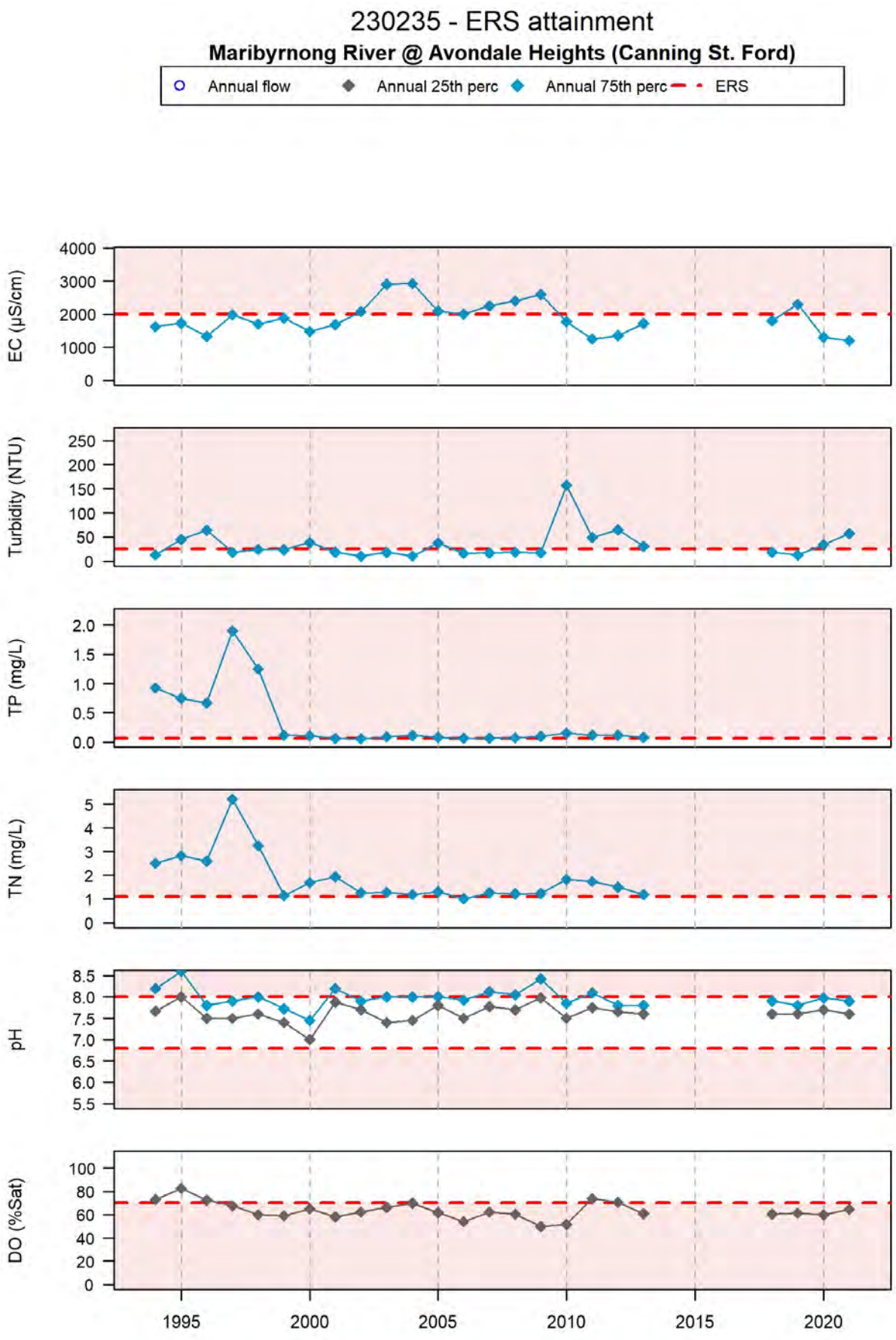

229643 - ERS attainment
Moonee Ponds Creek @ Racecourse Road, Flemington
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

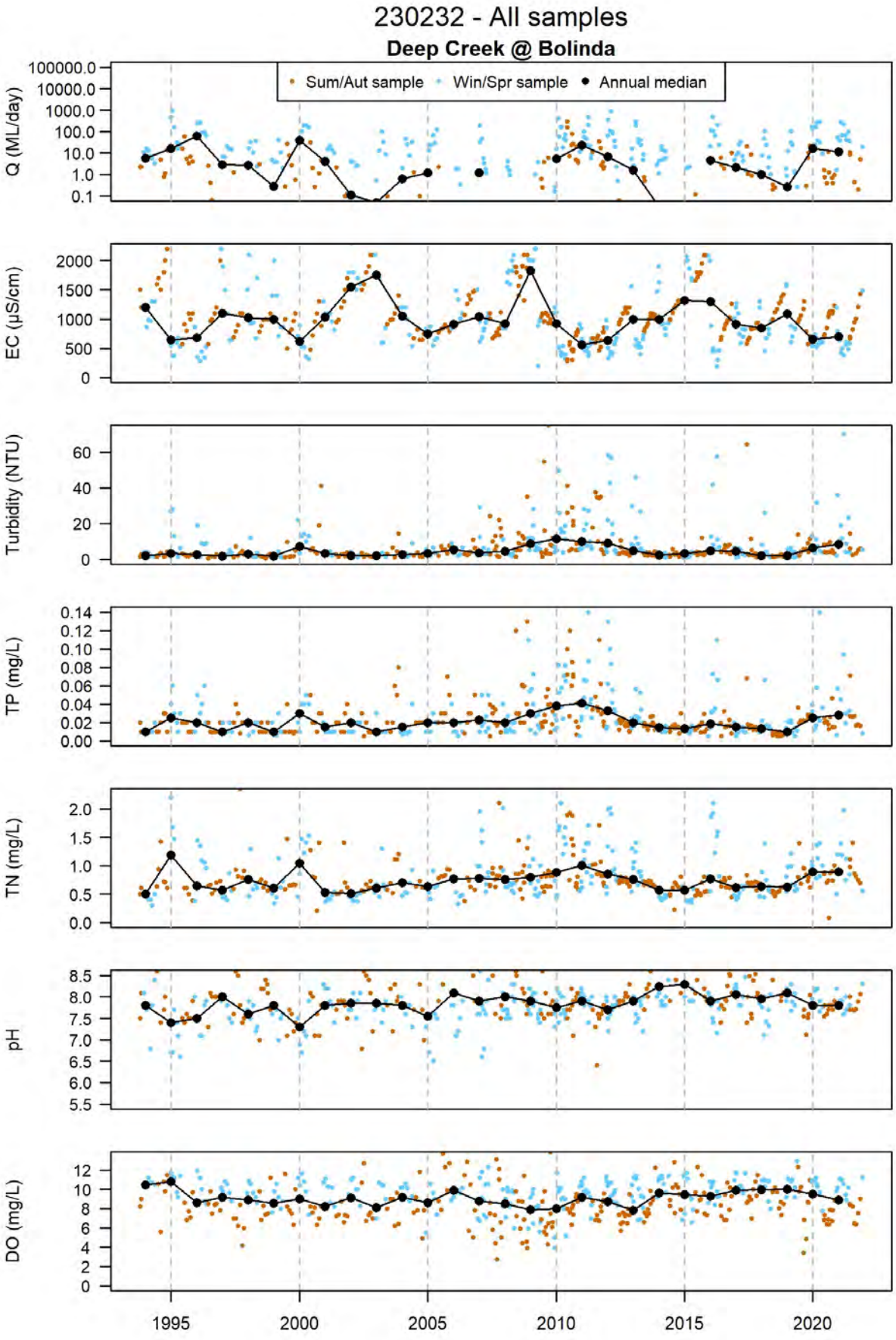
Maribyrnong Basin

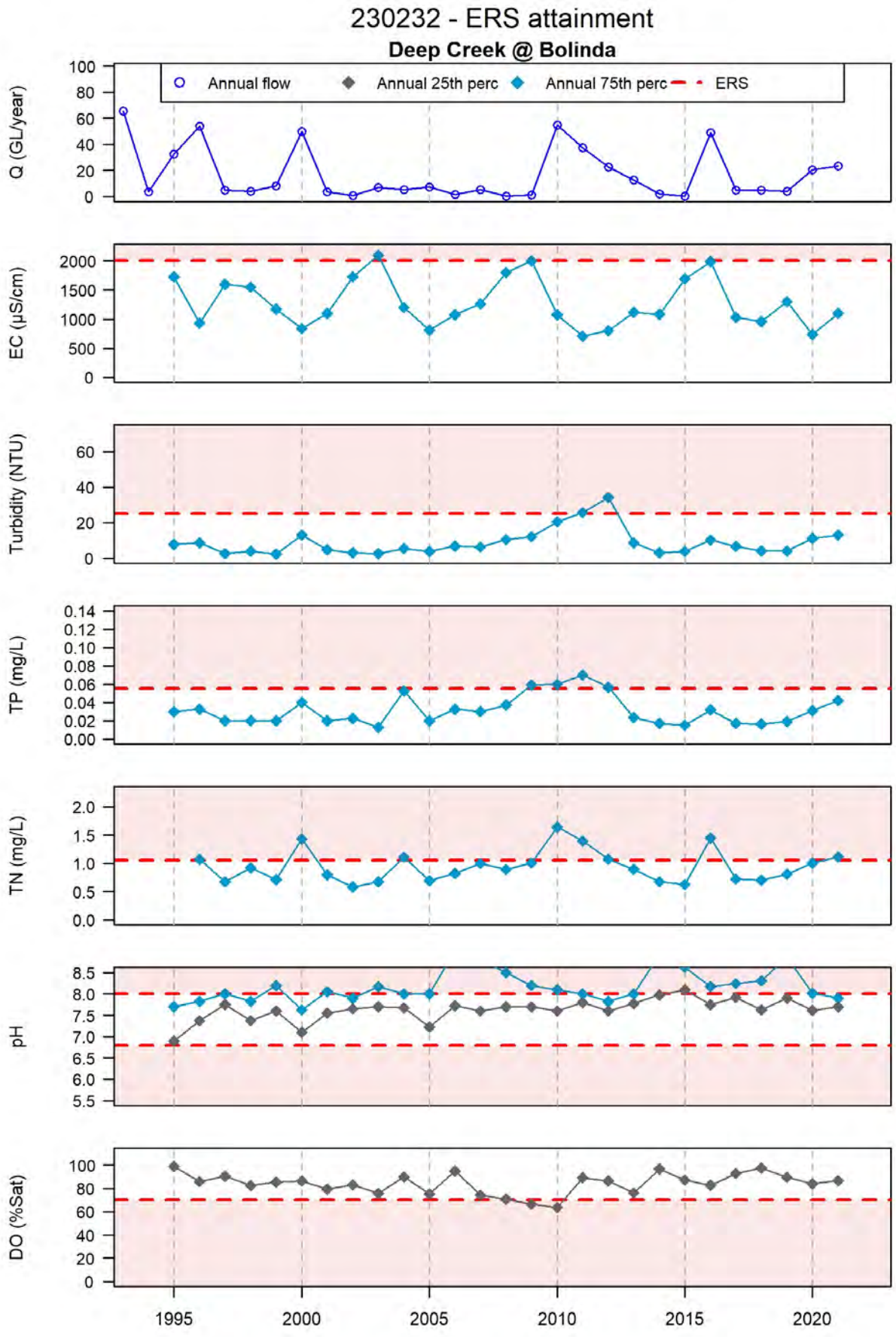


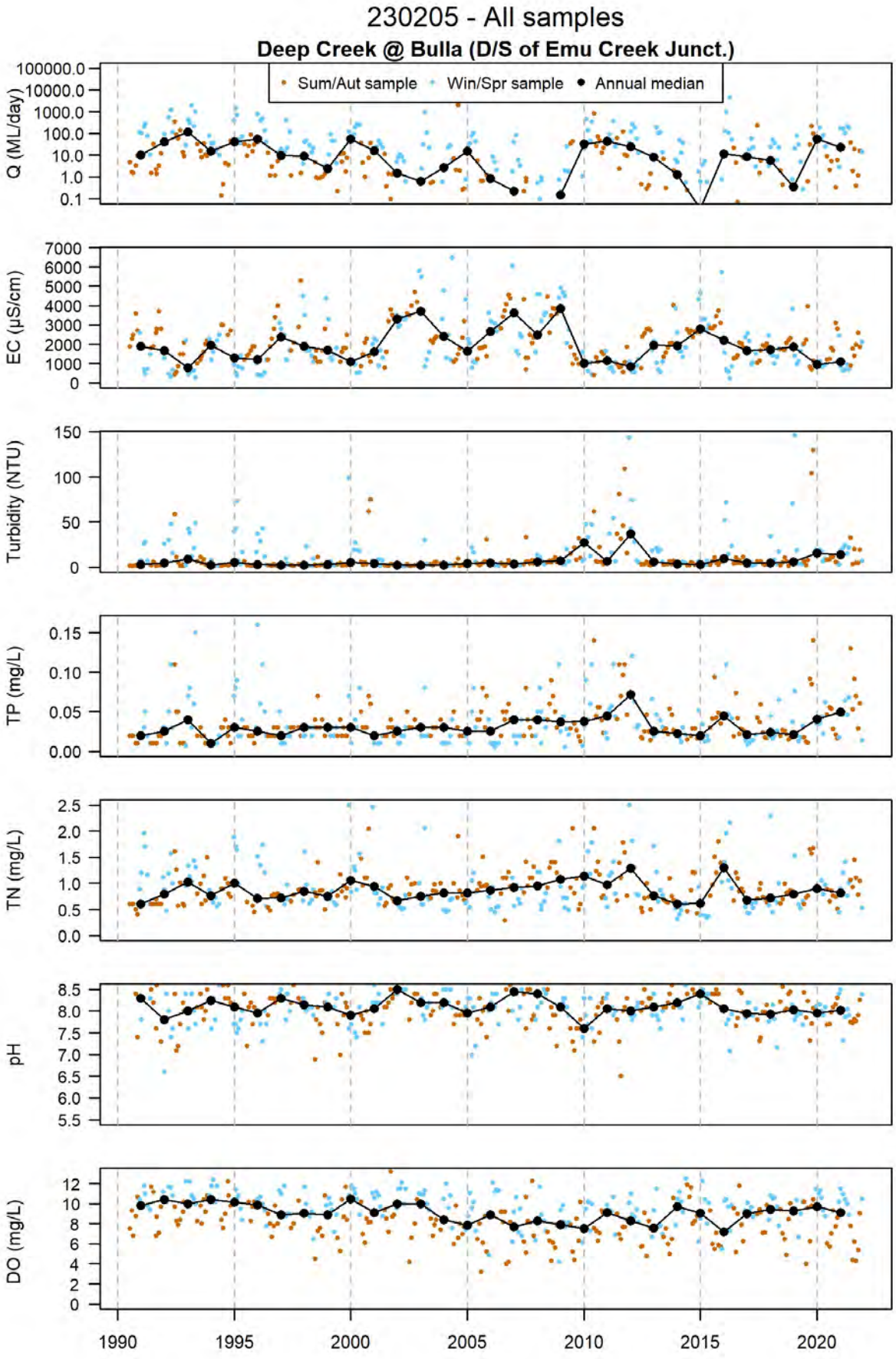

230105 - ERS attainment
Maribyrnong River @ Keilor (Brimbank Park Ford)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

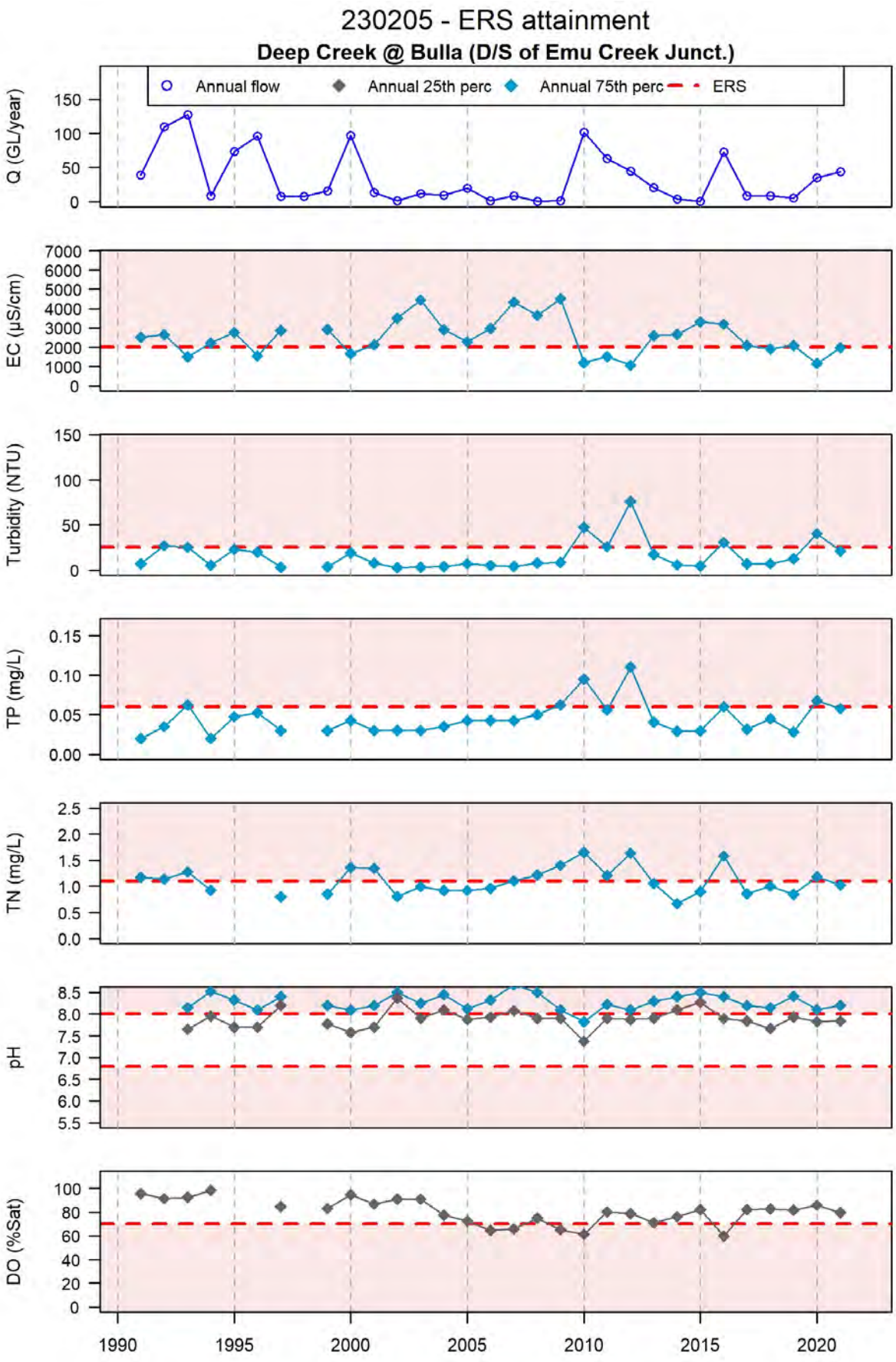

230235 - All samples
Maribyrnong River @ Avondale Heights (Canning St. Ford)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020

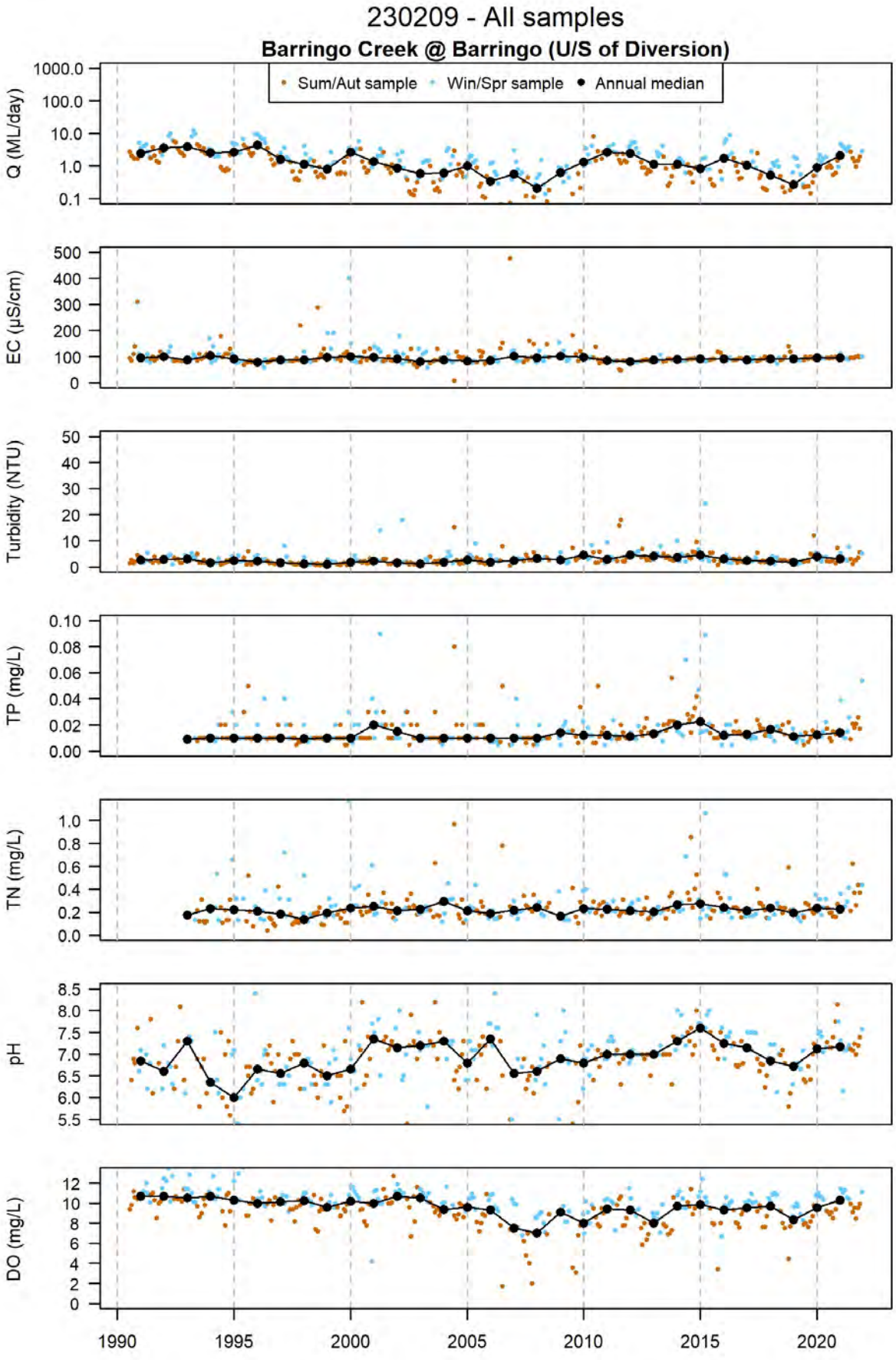

230235 - ERS attainment
Maribyrnong River @ Avondale Heights (Canning St. Ford)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

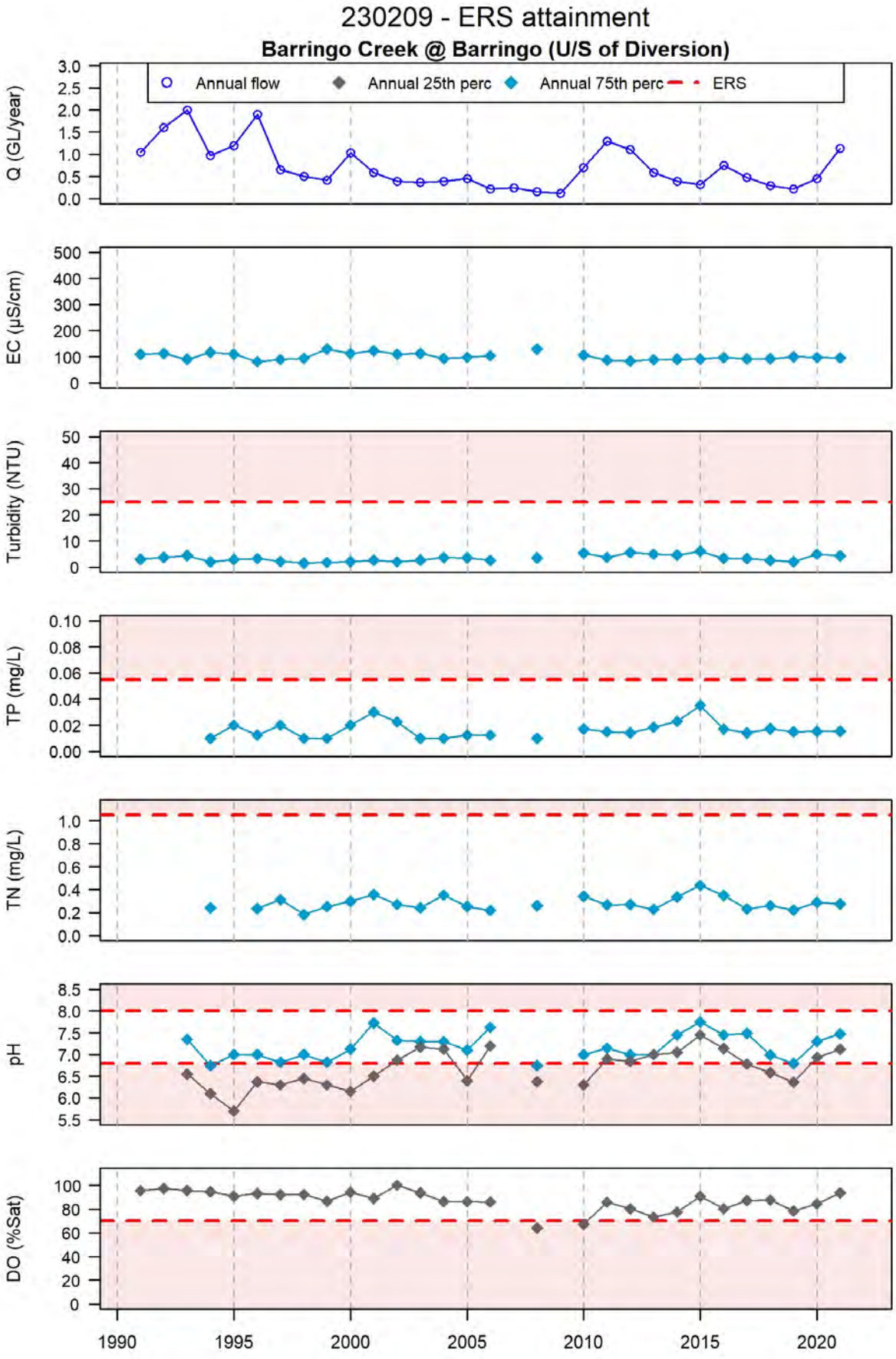

230232 - All samples
Deep Creek @ Bolinda
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1995
2000
2005
2010
2015
2020


230232 - ERS attainment
Deep Creek @ Bolinda
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

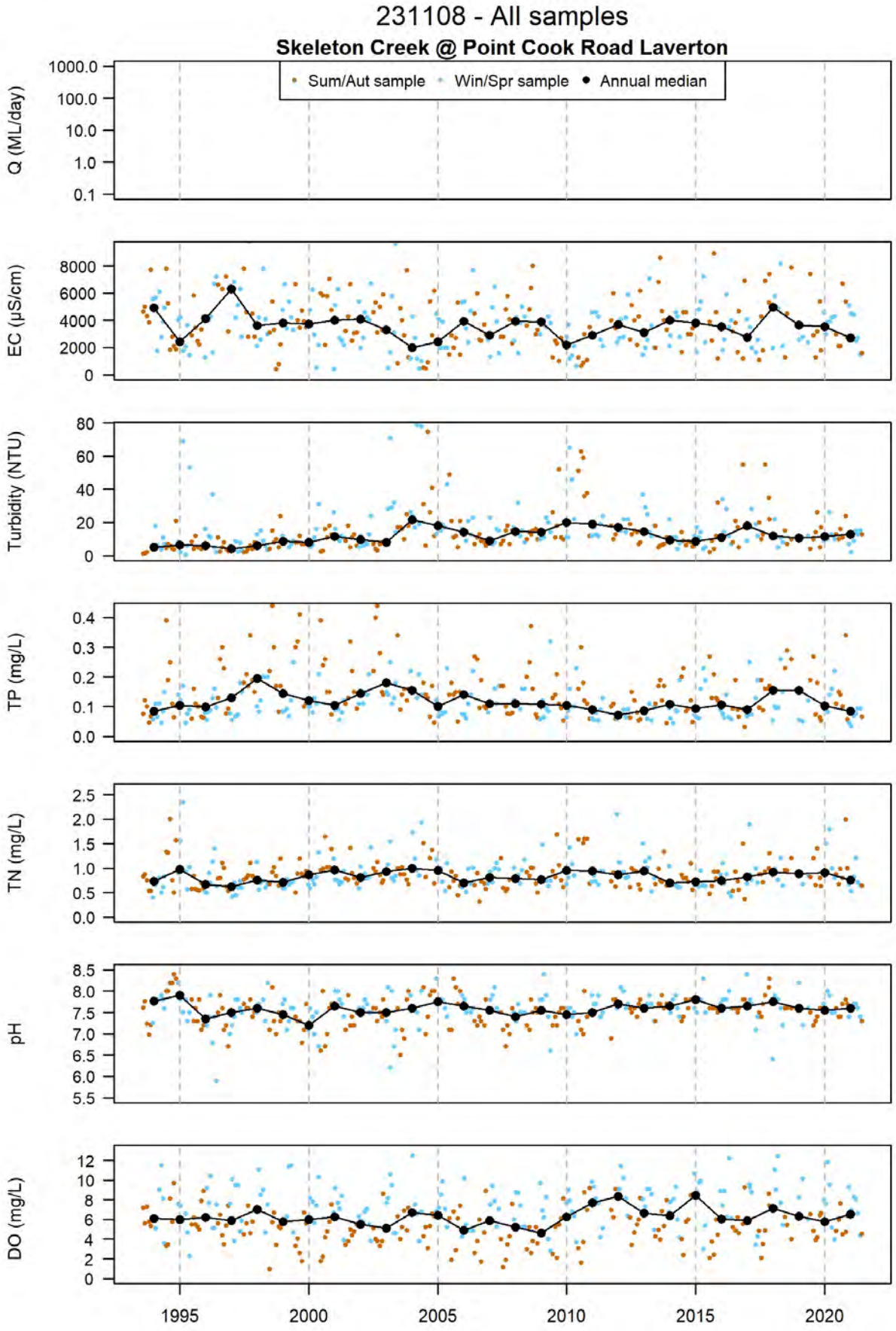

230205 - All samples
Deep Creek @ Bulla (D/S of Emu Creek Junct.)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

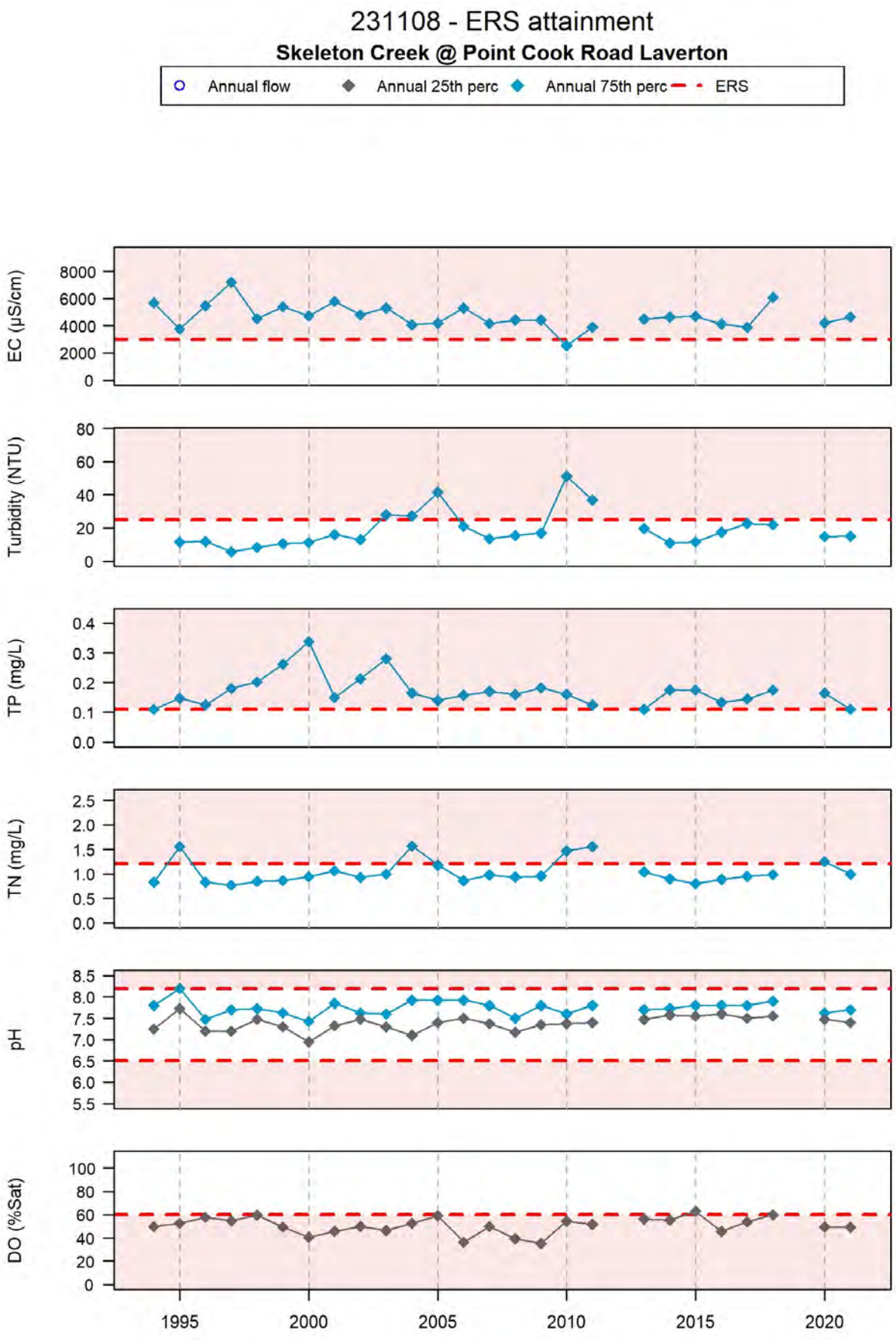

230205 - ERS attainment
Deep Creek @ Bulla (D/S of Emu Creek Junct.)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

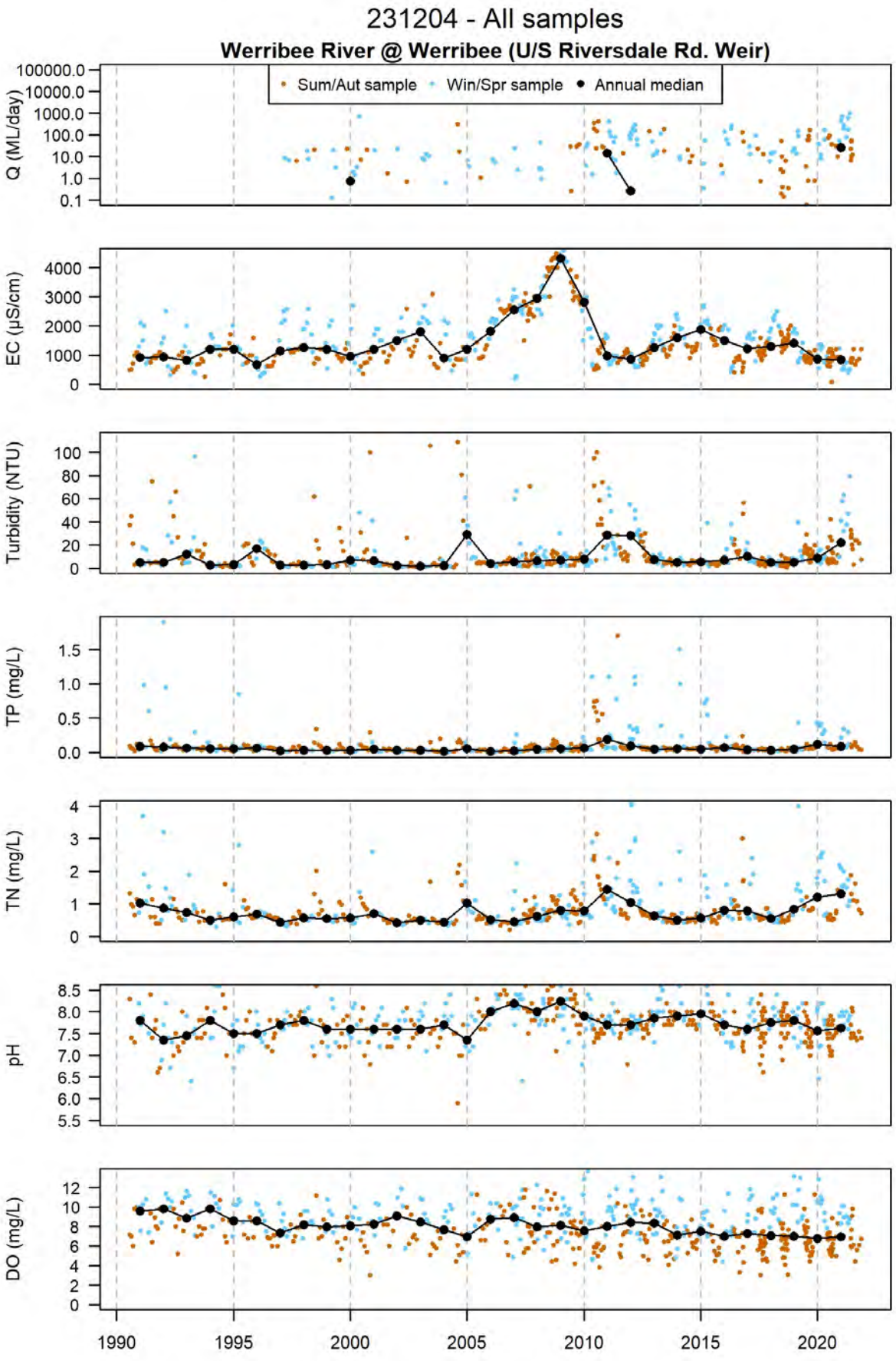

230209 - All samples
Barringo Creek @ Barringo (U/S of Diversion)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

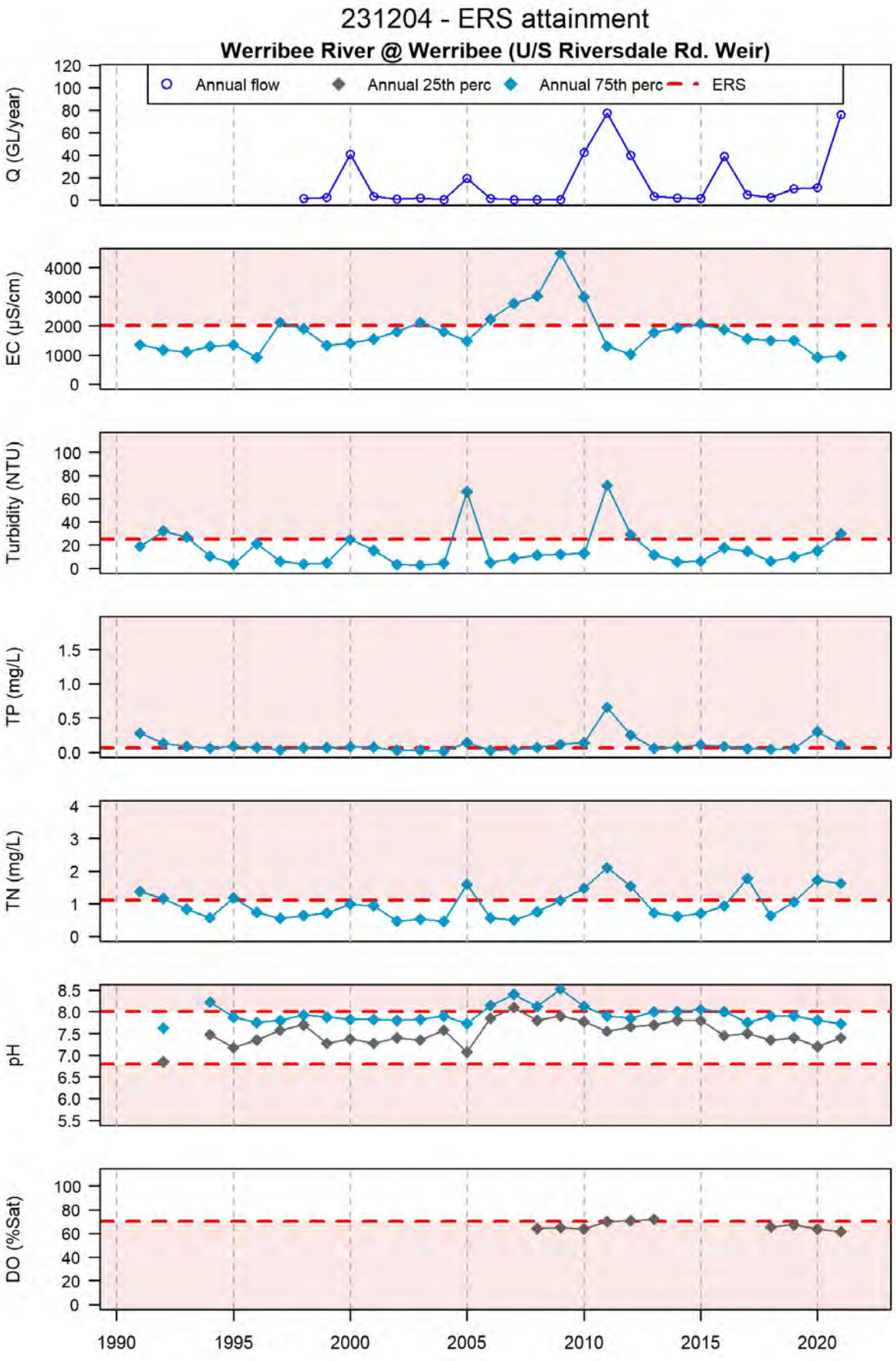

230209 - ERS attainment
Barringo Creek @ Barringo (U/S of Diversion)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

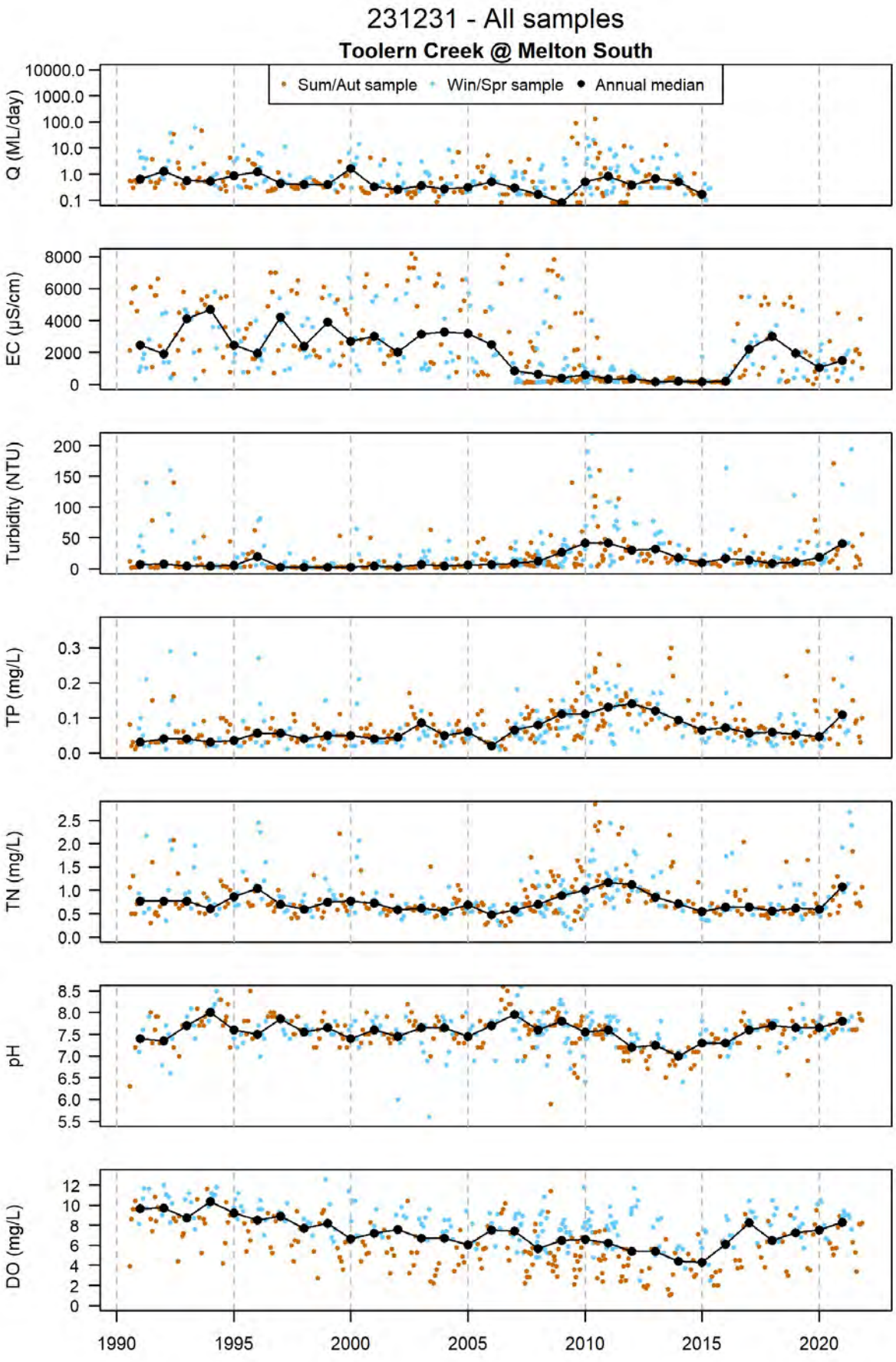
Werribee River

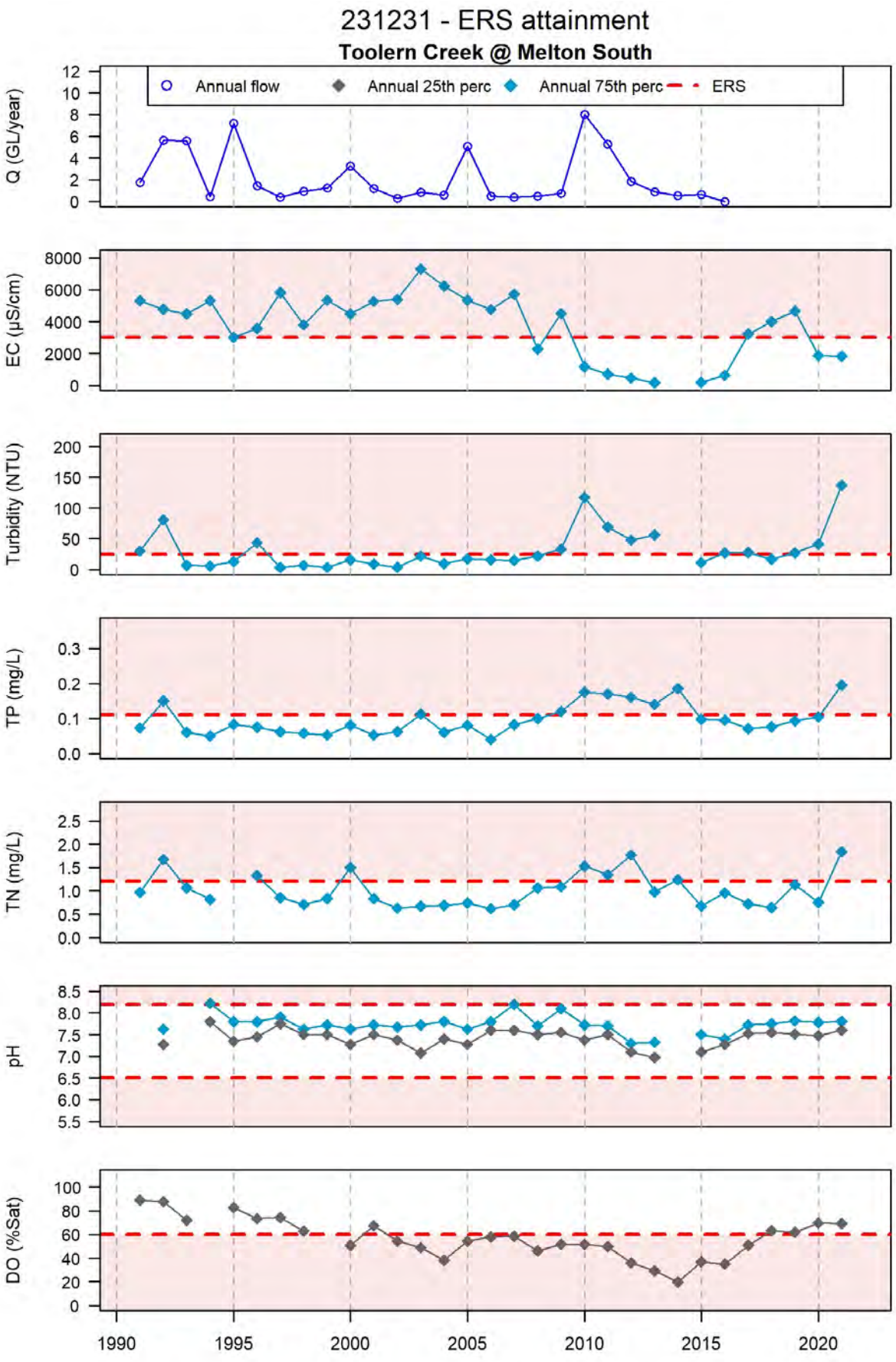



231108 - ERS attainment
Skeleton Creek @ Point Cook Road Laverton
Annual flow
Annual 25th perc
Annual 75th perc
ERS
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1995
2000
2005
2010
2015
2020

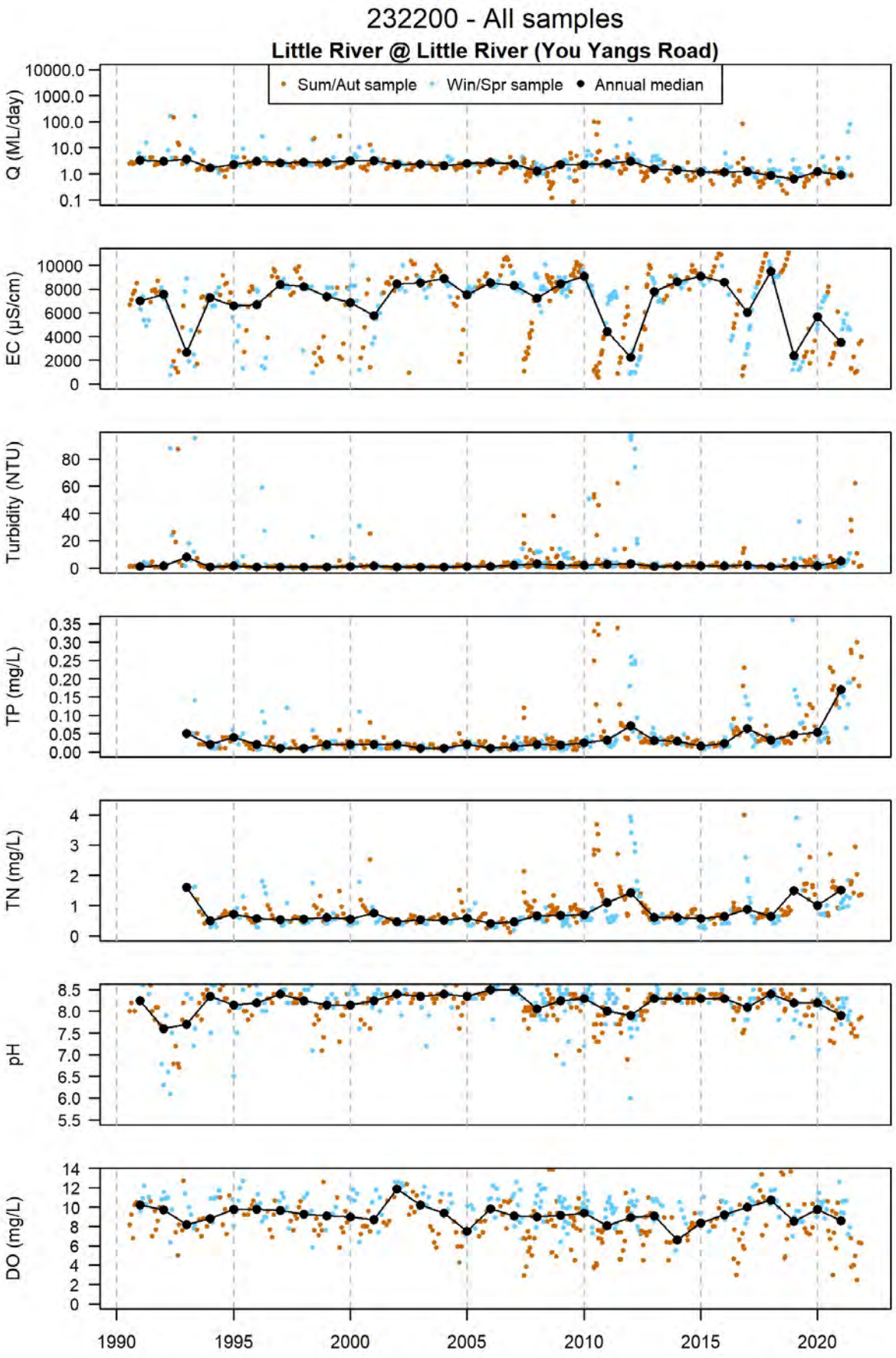

231204 - All samples
Werribee River @ Werribee (U/S Riversdale Rd. Weir)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

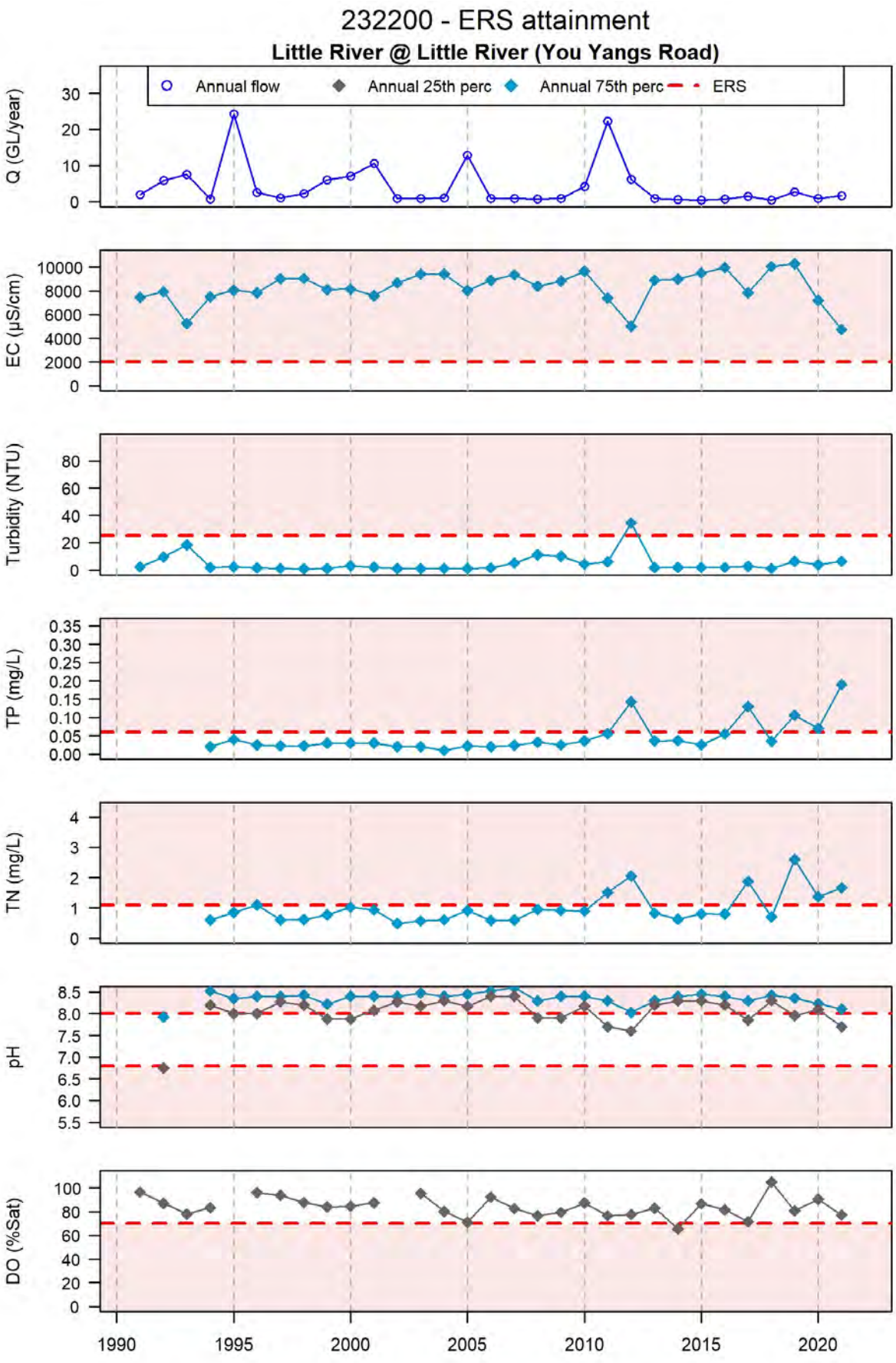

231204 - ERS attainment
Werribee River @ Werribee (U/S Riversdale Rd. Weir)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

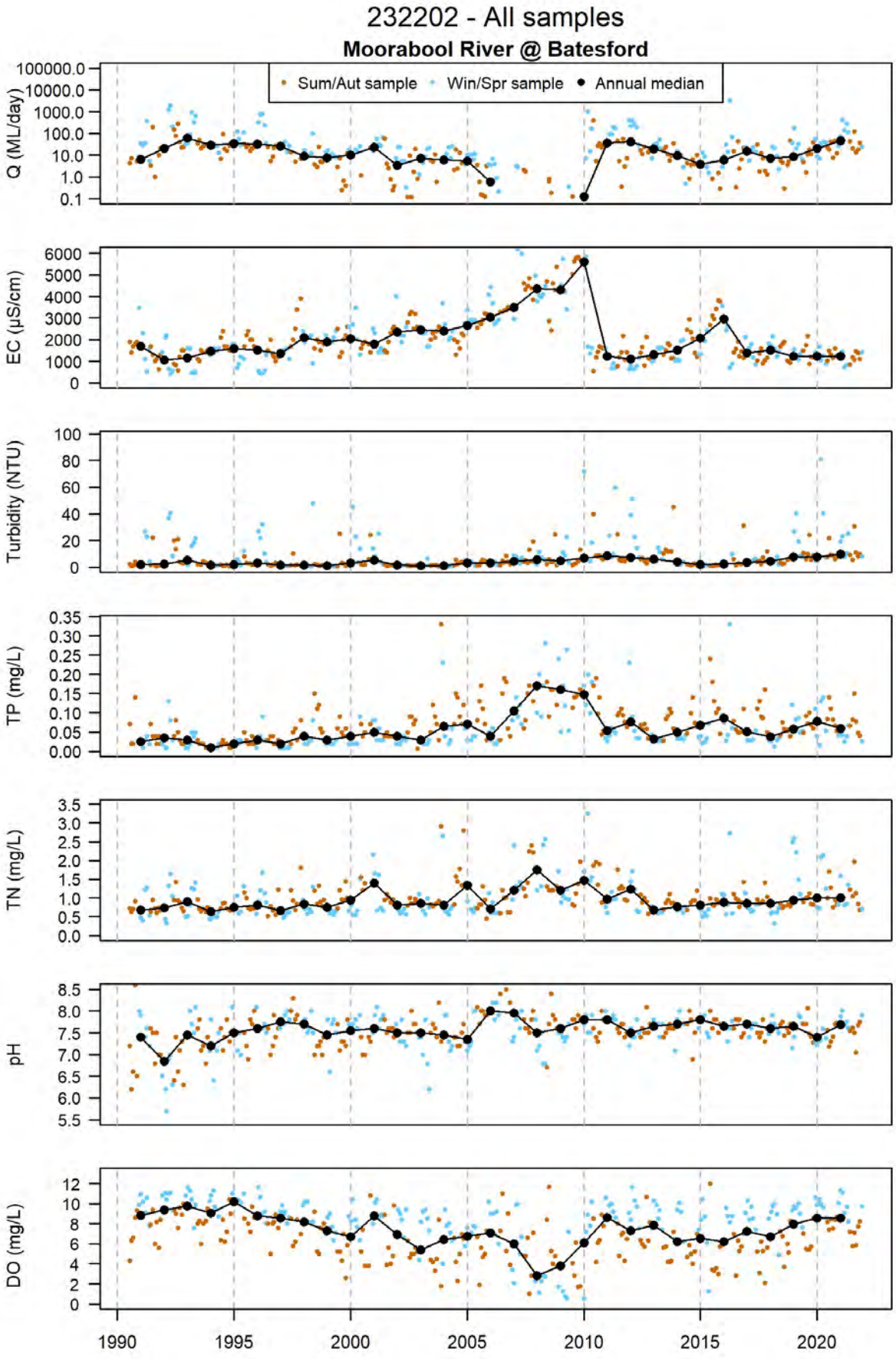

231231 - All samples
Toolern Creek @ Melton South
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

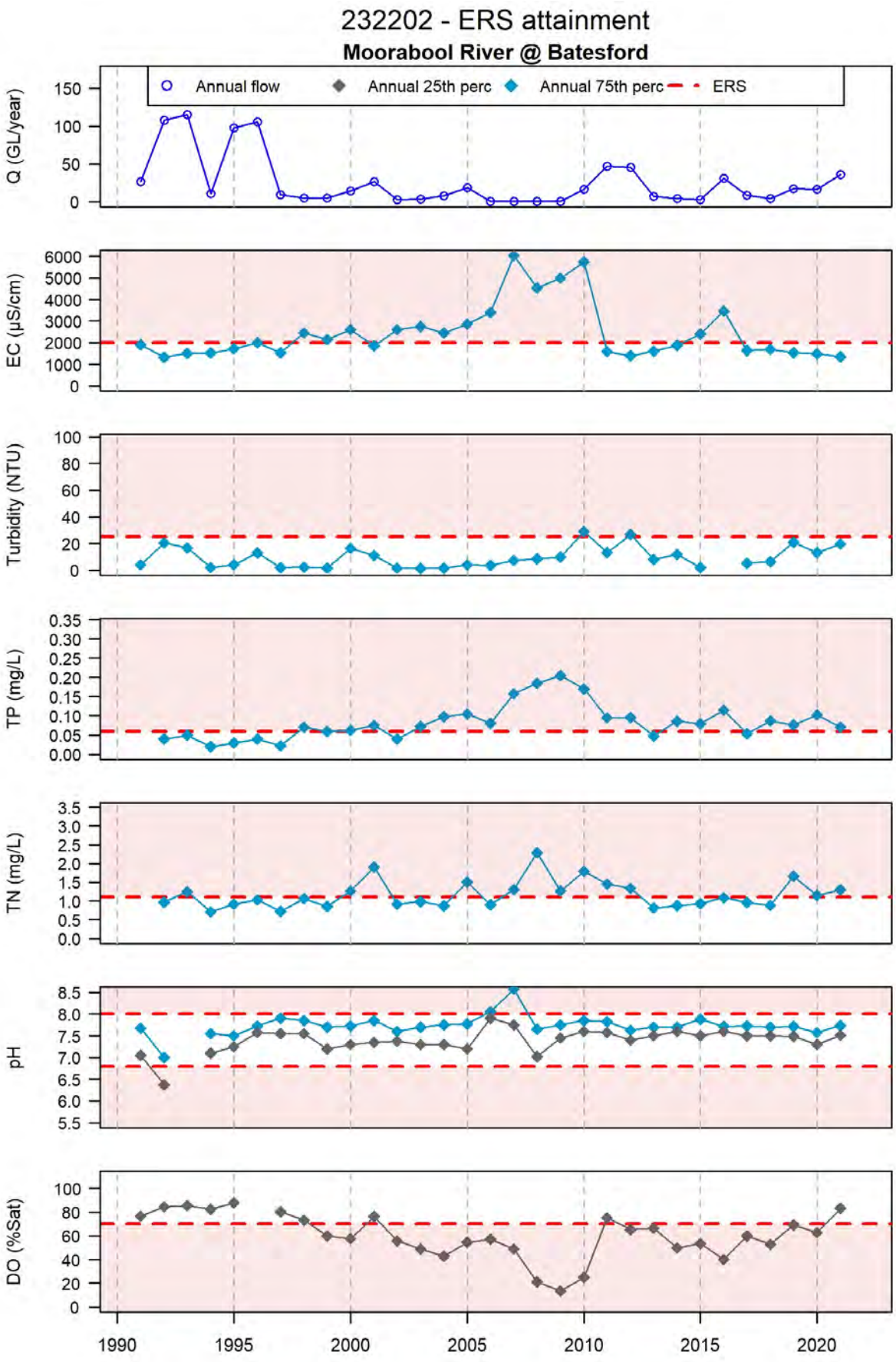

231231 - ERS attainment
Toolern Creek @ Melton South
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

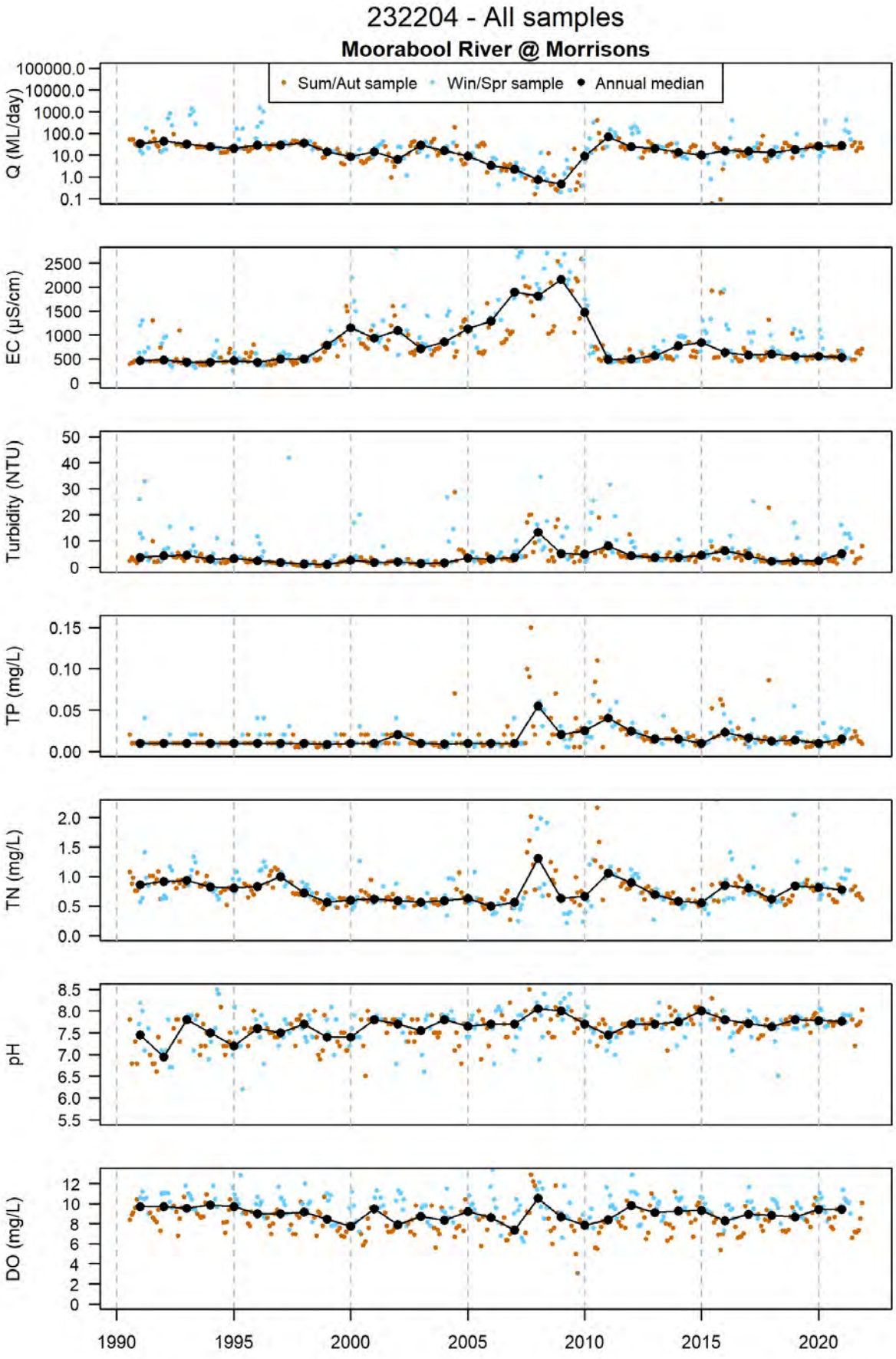
Moorabool Basin

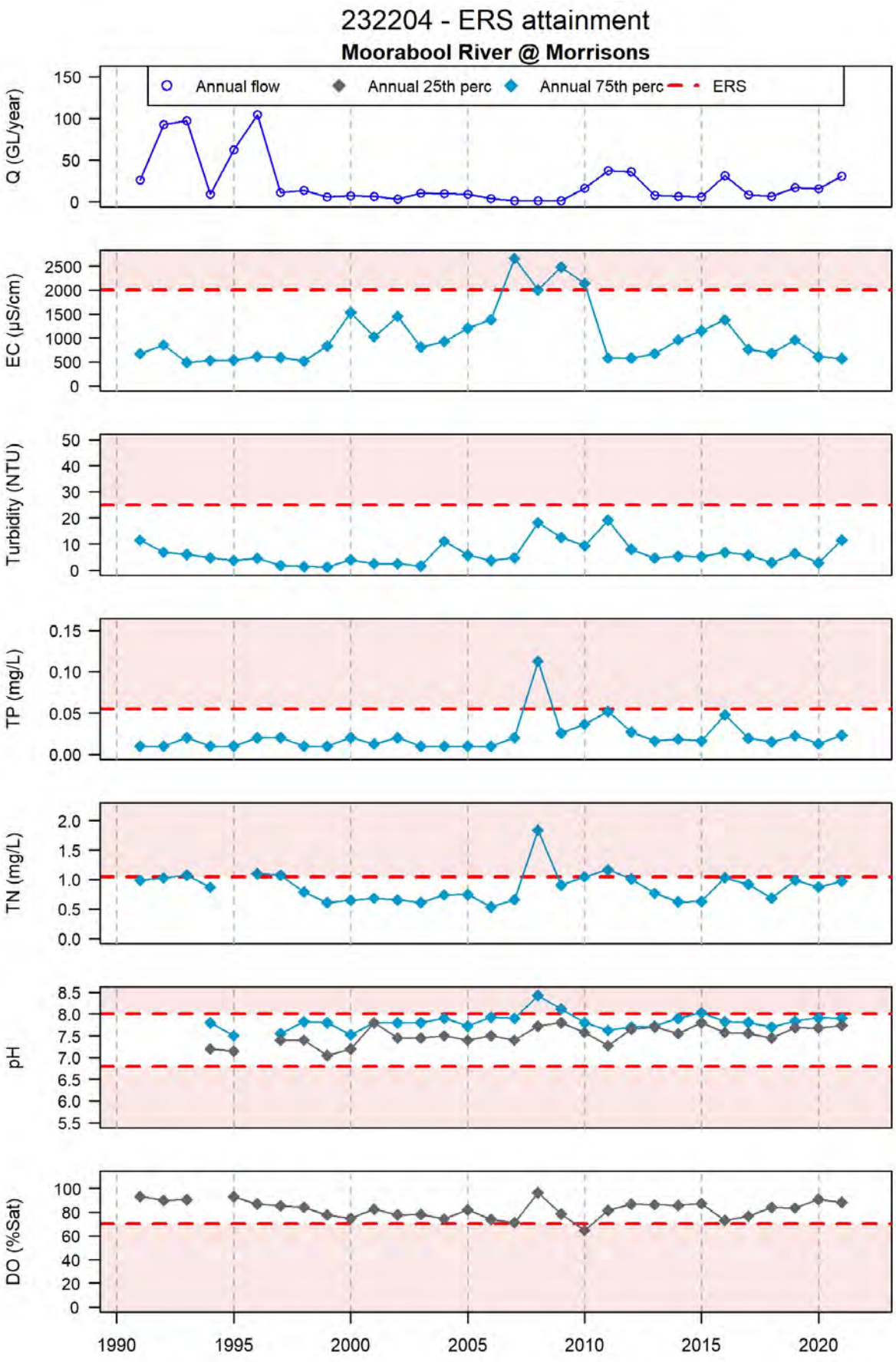


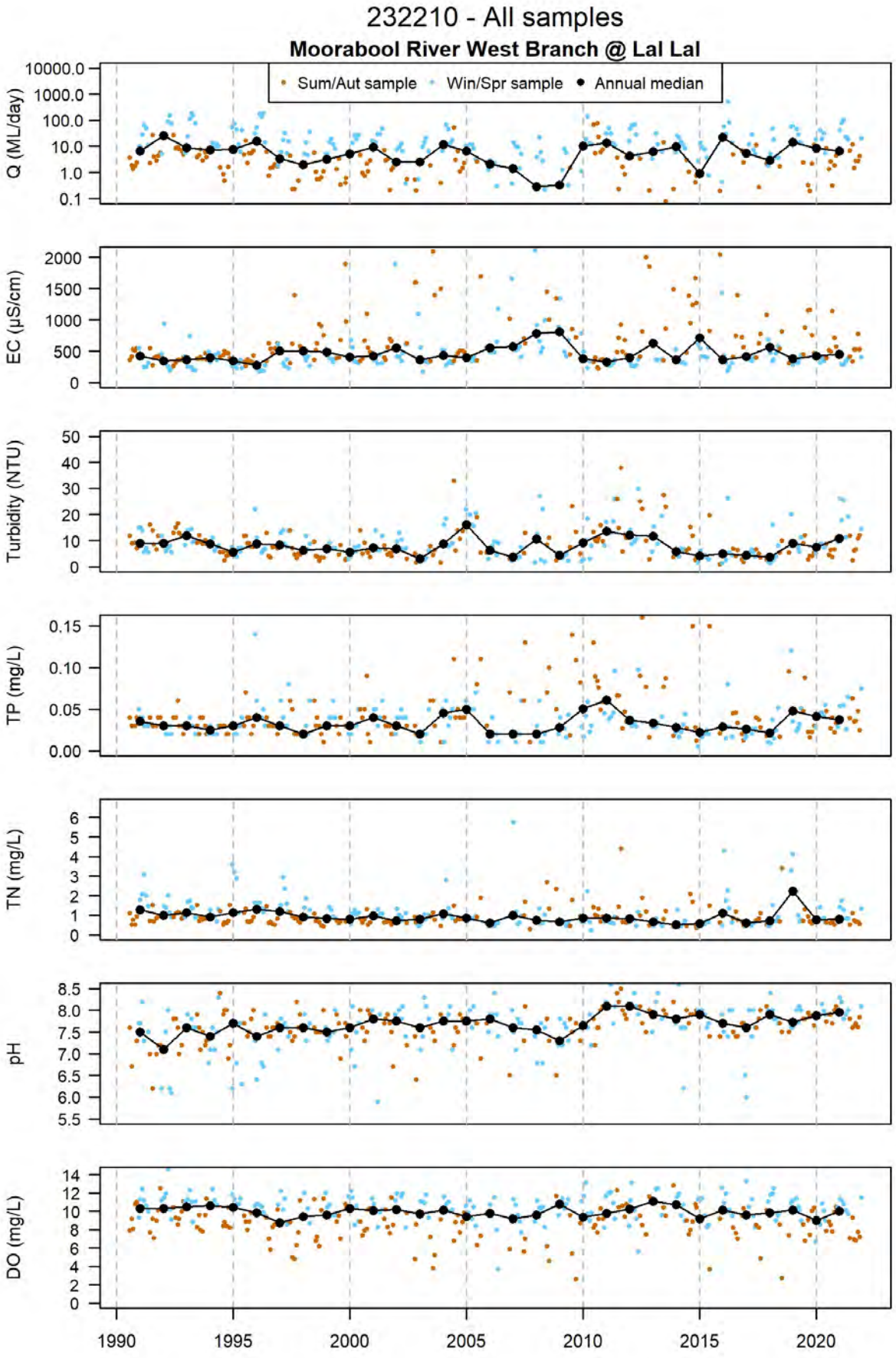

232200 - ERS attainment
Little River @ Little River (You Yangs Road)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

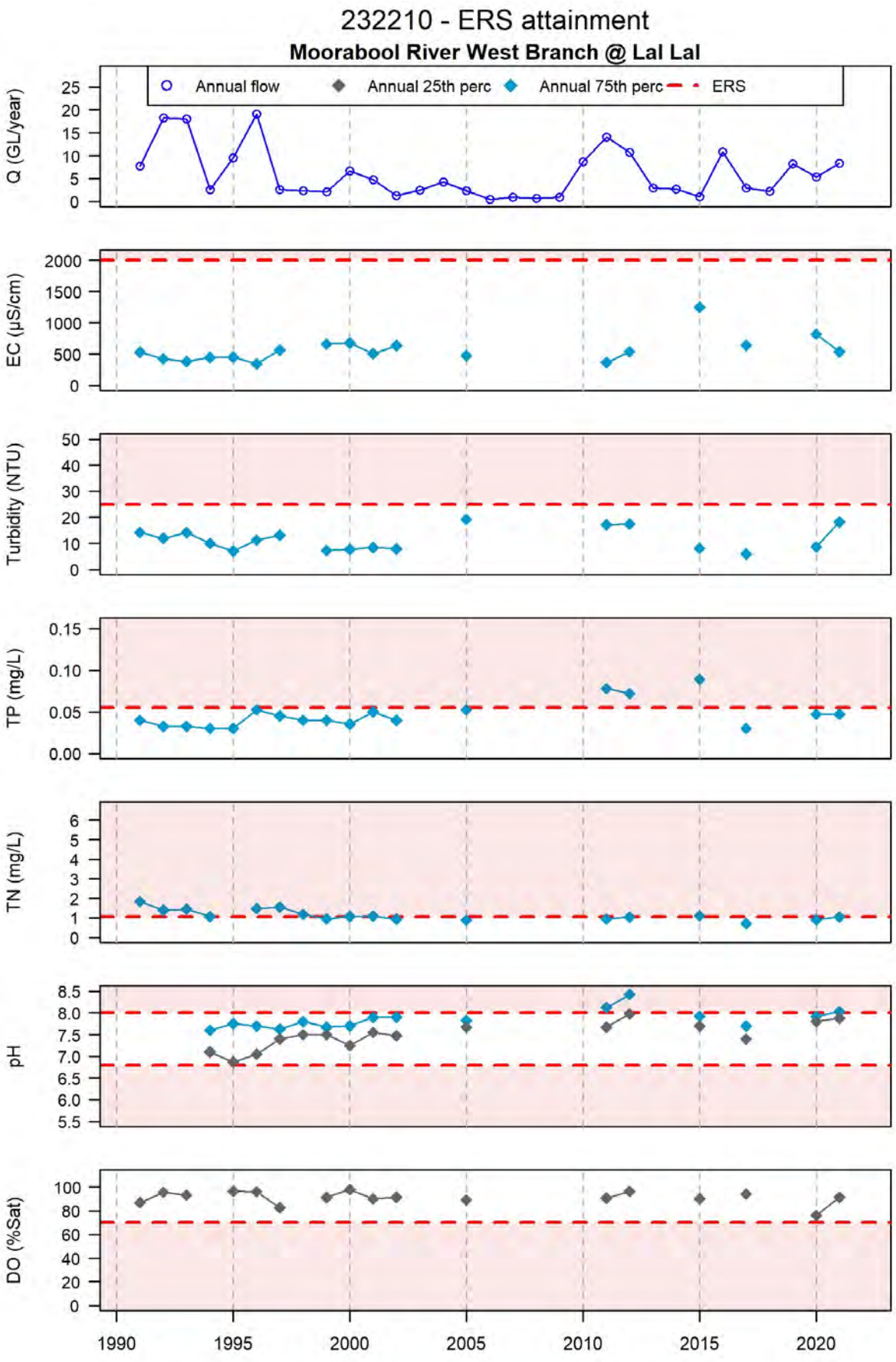

232202 - All samples
Moorabool River @ Batesford
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020


232202 - ERS attainment
Moorabool River @ Batesford
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

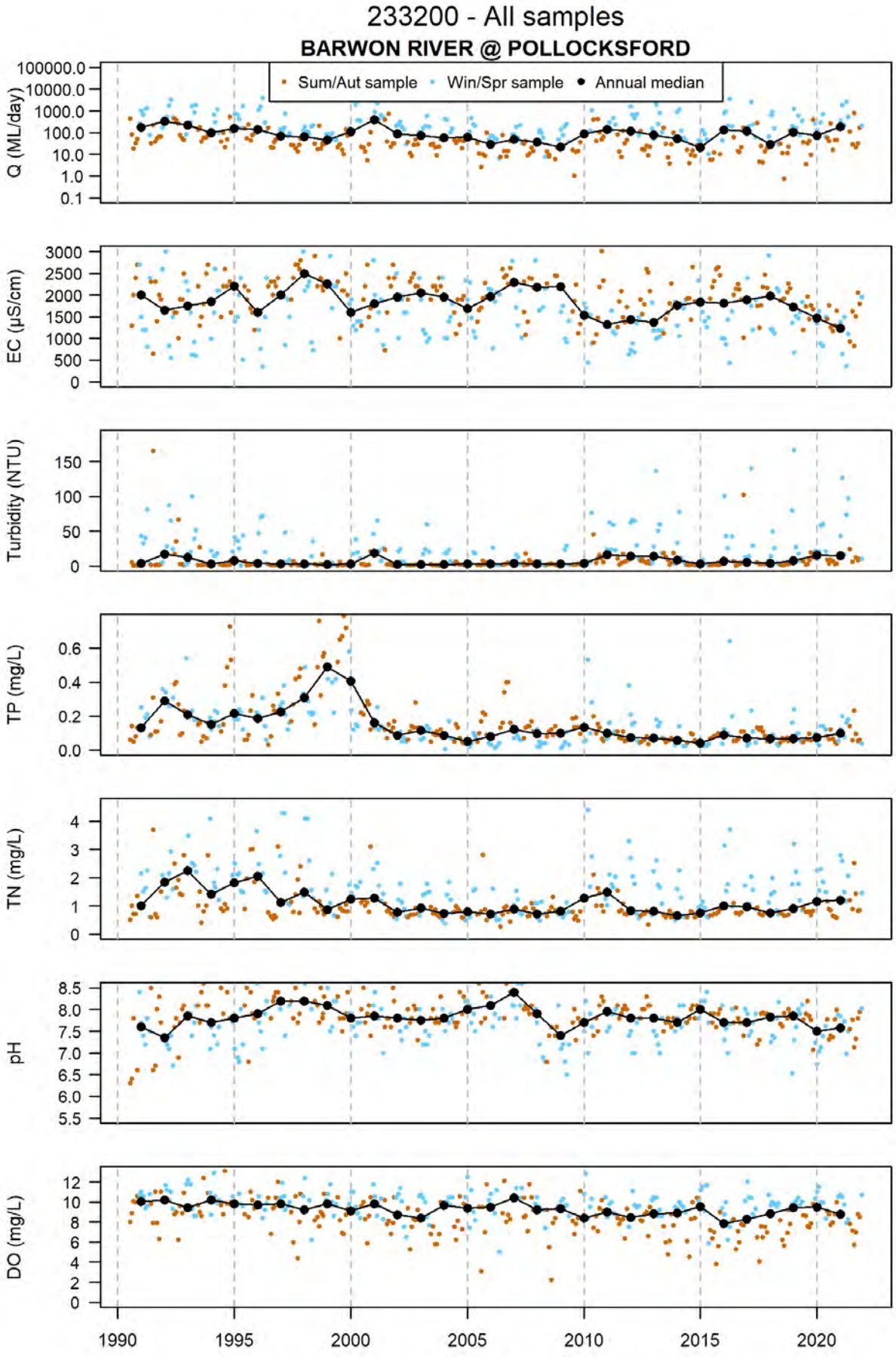

232204 - All samples
Moorabool River @ Morrisons
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

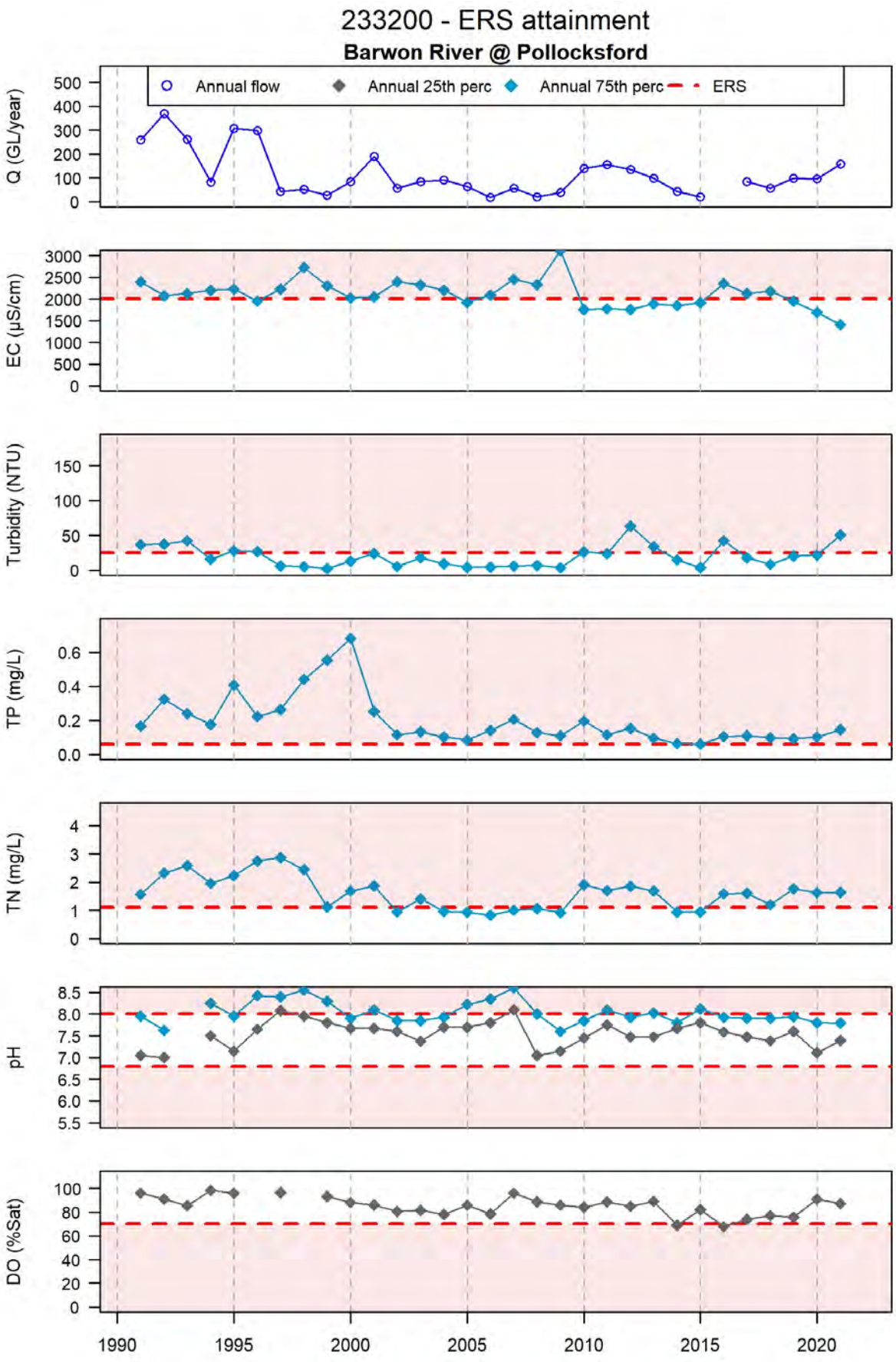

232204 - ERS attainment
Moorabool River @ Morrisons
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

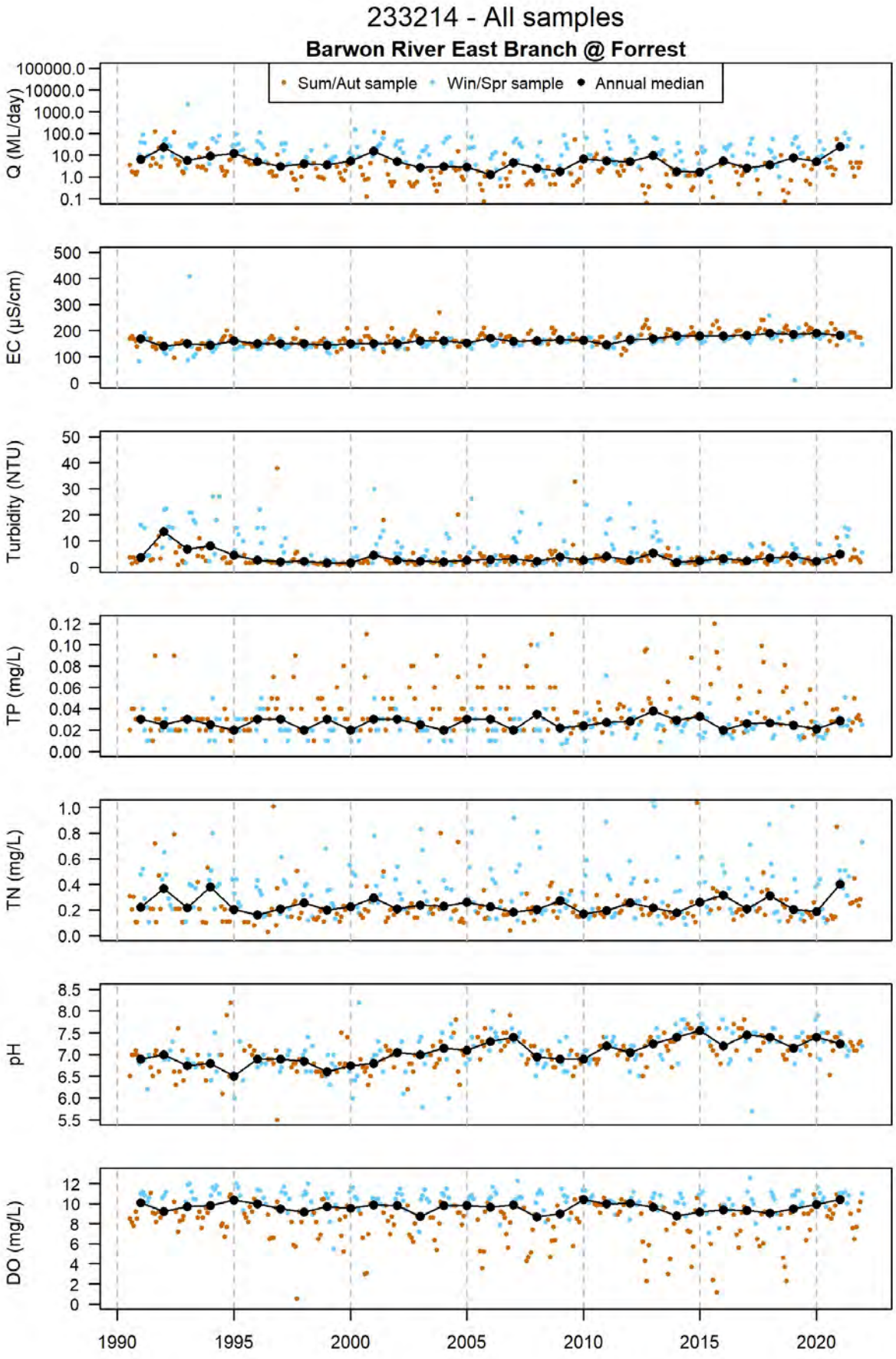

232210 - All samples
Moorabool River West Branch @ Lal Lal
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

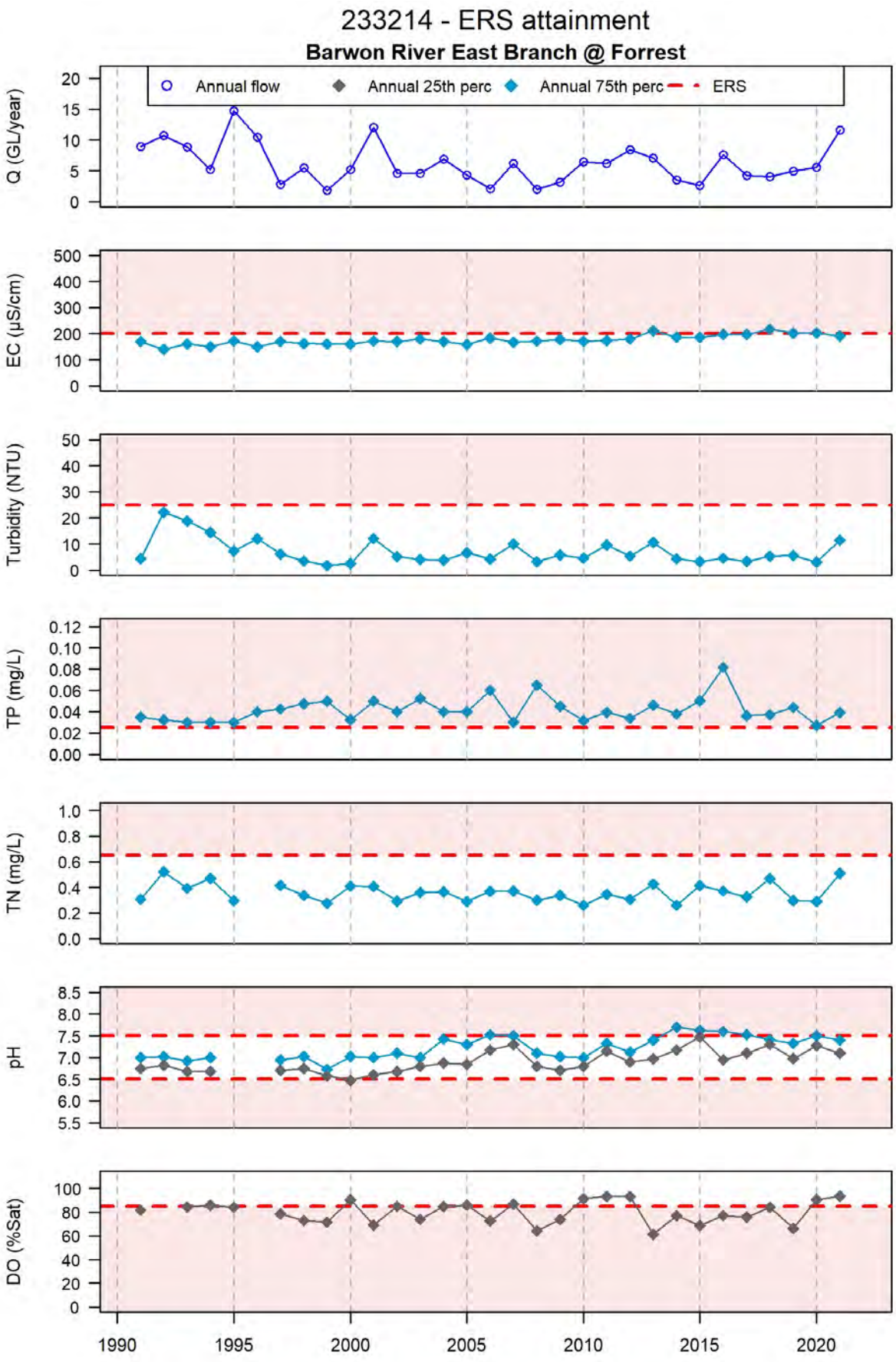

232210 - ERS attainment
Moorabool River West Branch @ Lal Lal
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

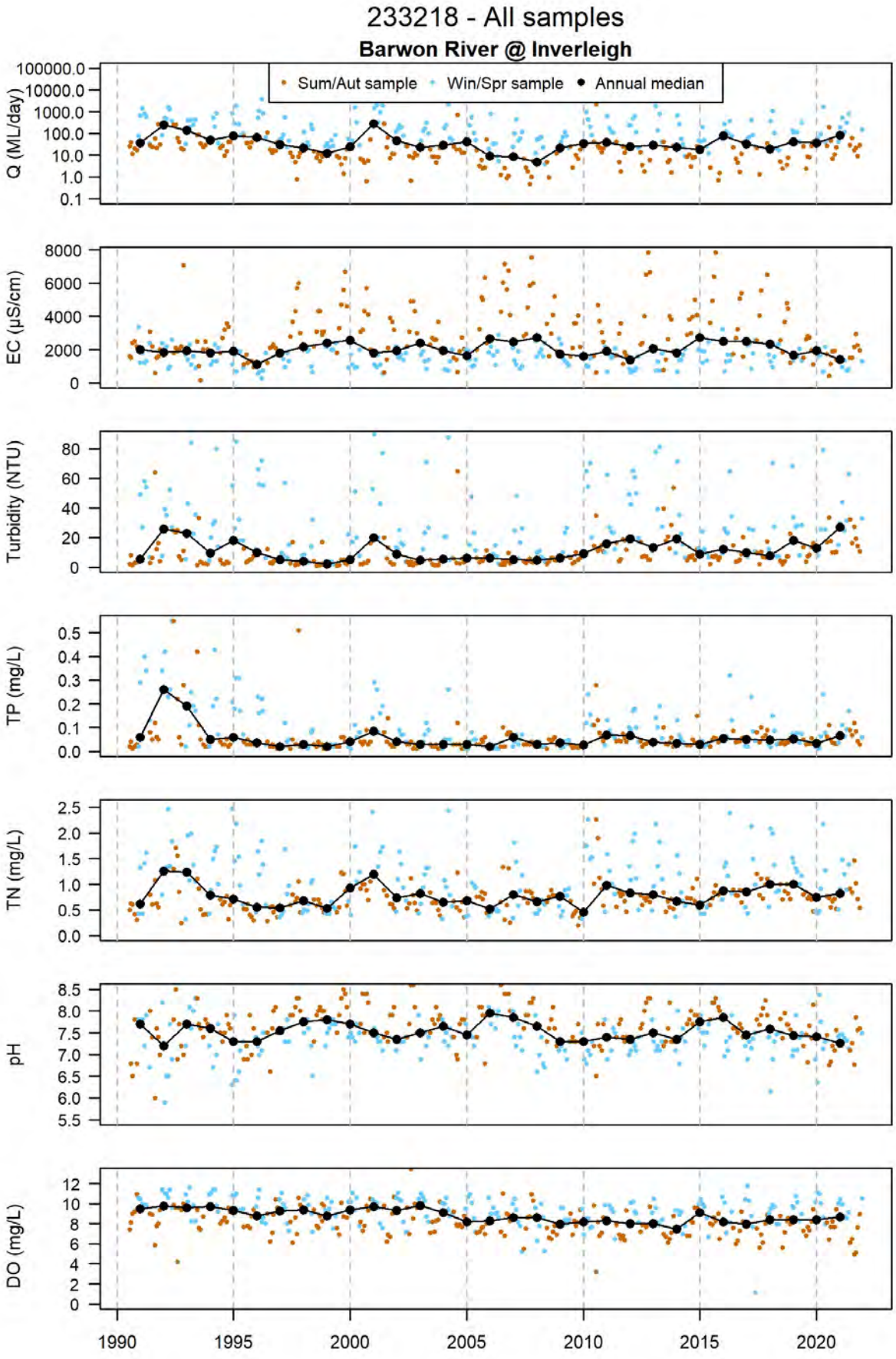
Barwon Basin

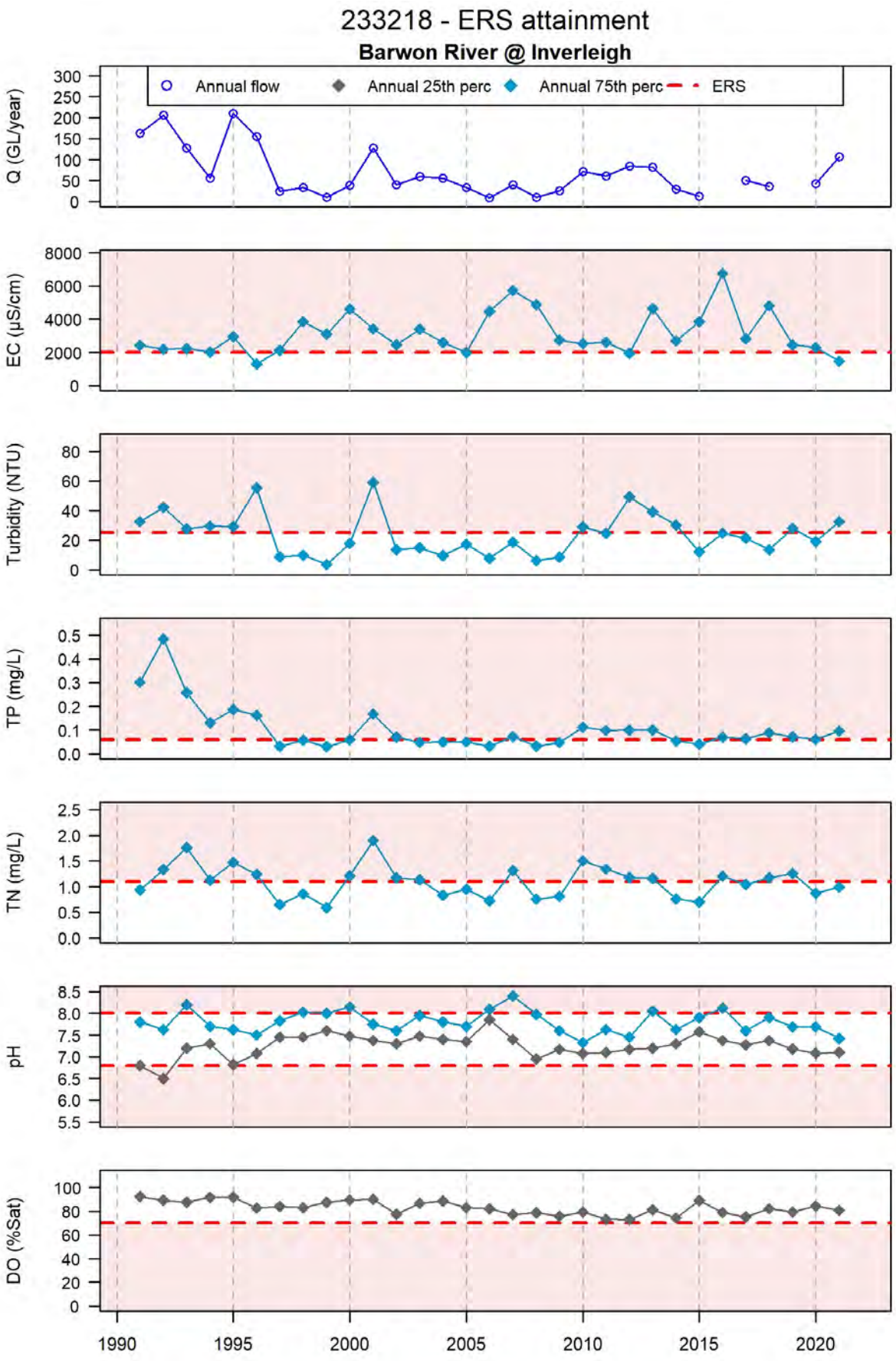


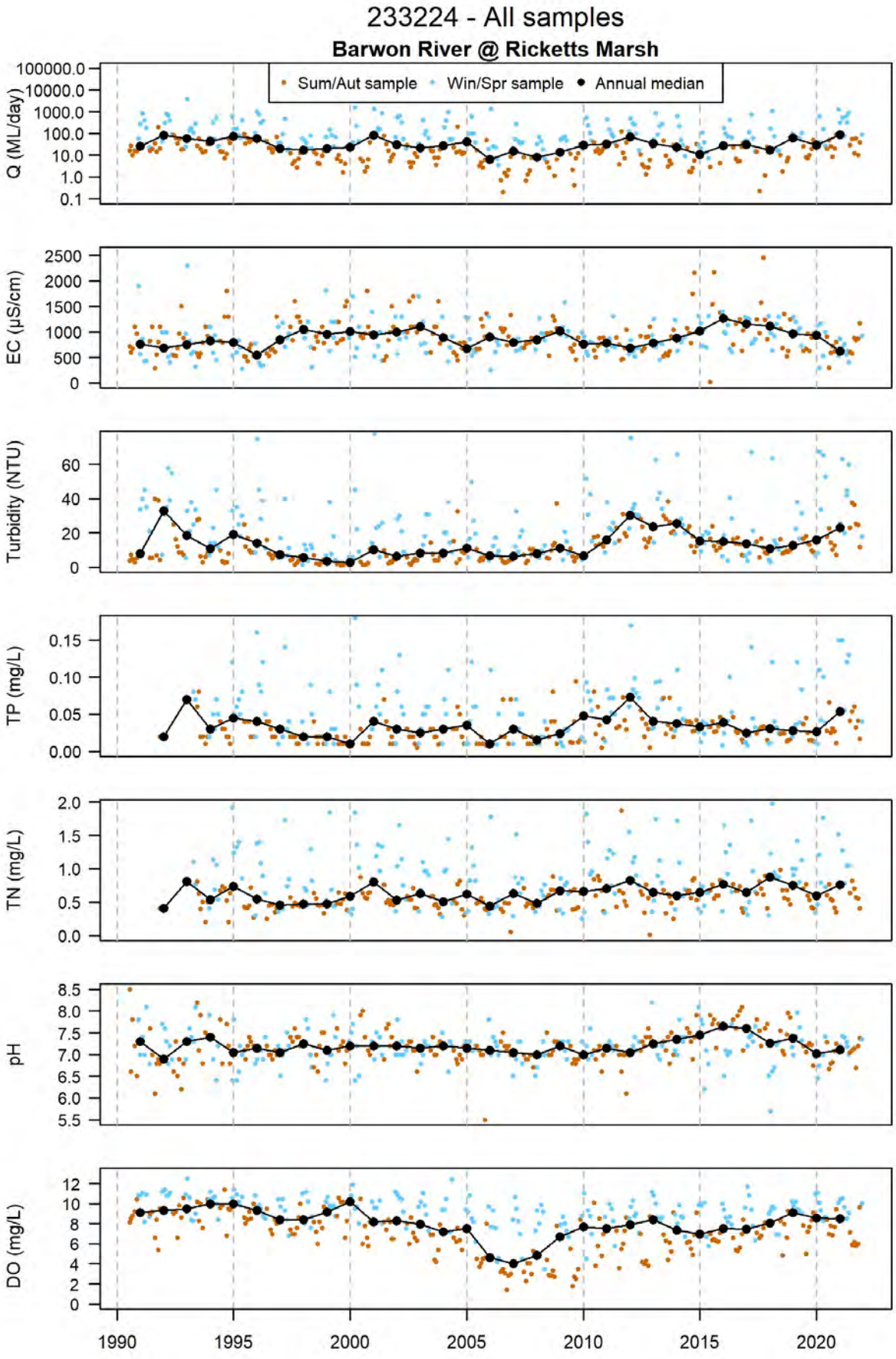

233200 - ERS attainment
Barwon River @ Pollocksford
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

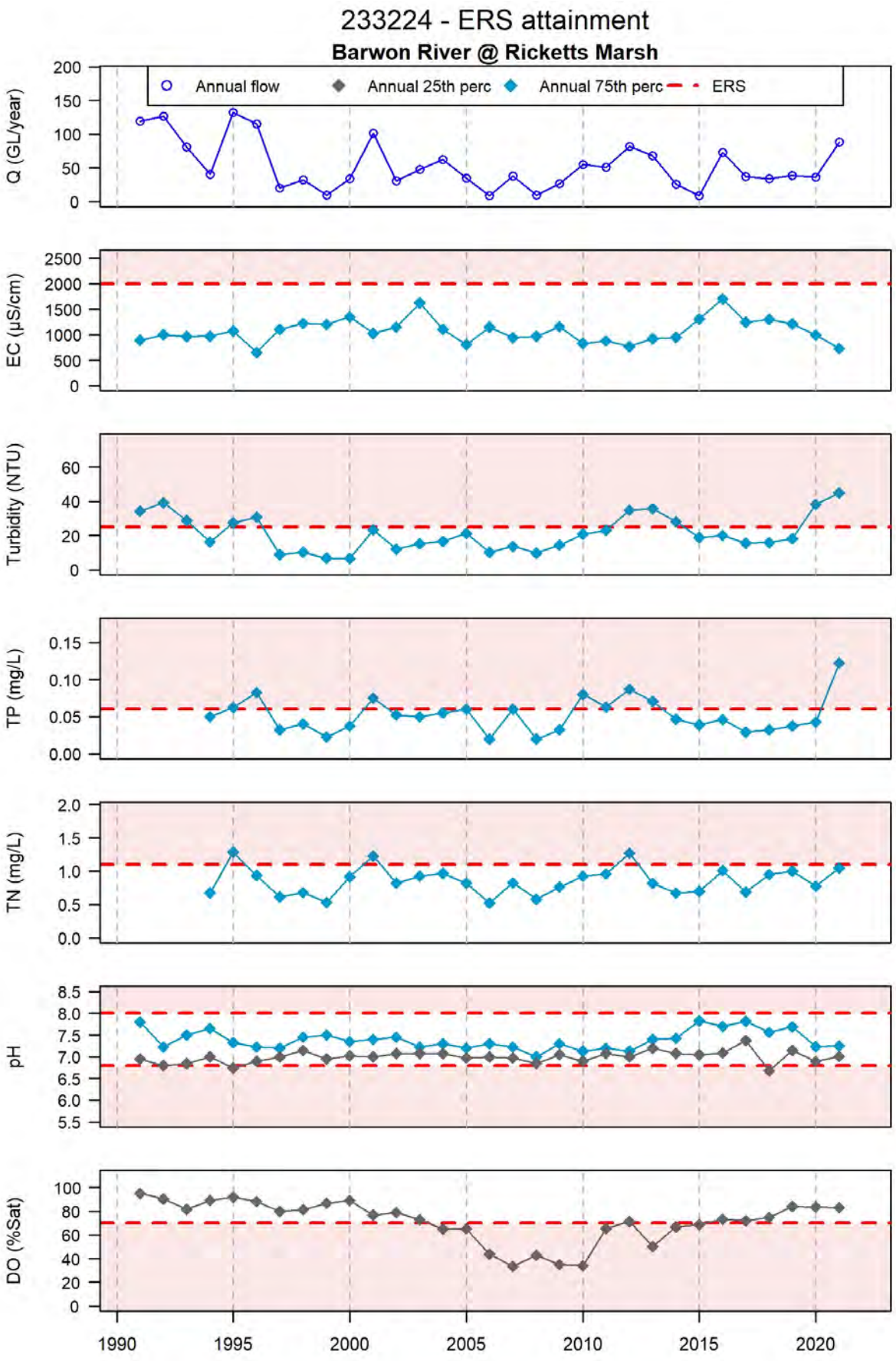

233214 - All samples
Barwon River East Branch @ Forrest
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

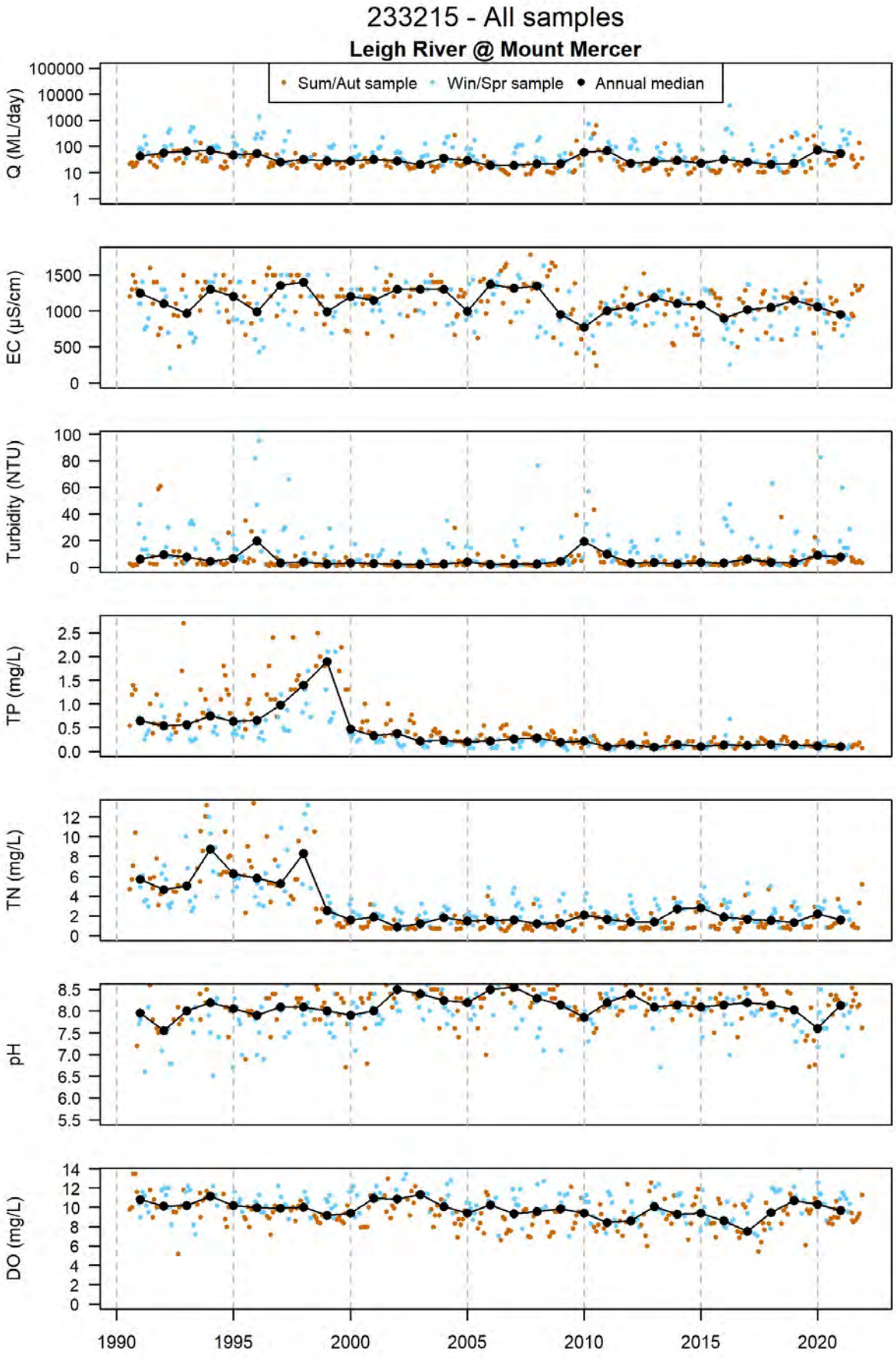

233214 - ERS attainment
Barwon River East Branch @ Forrest
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

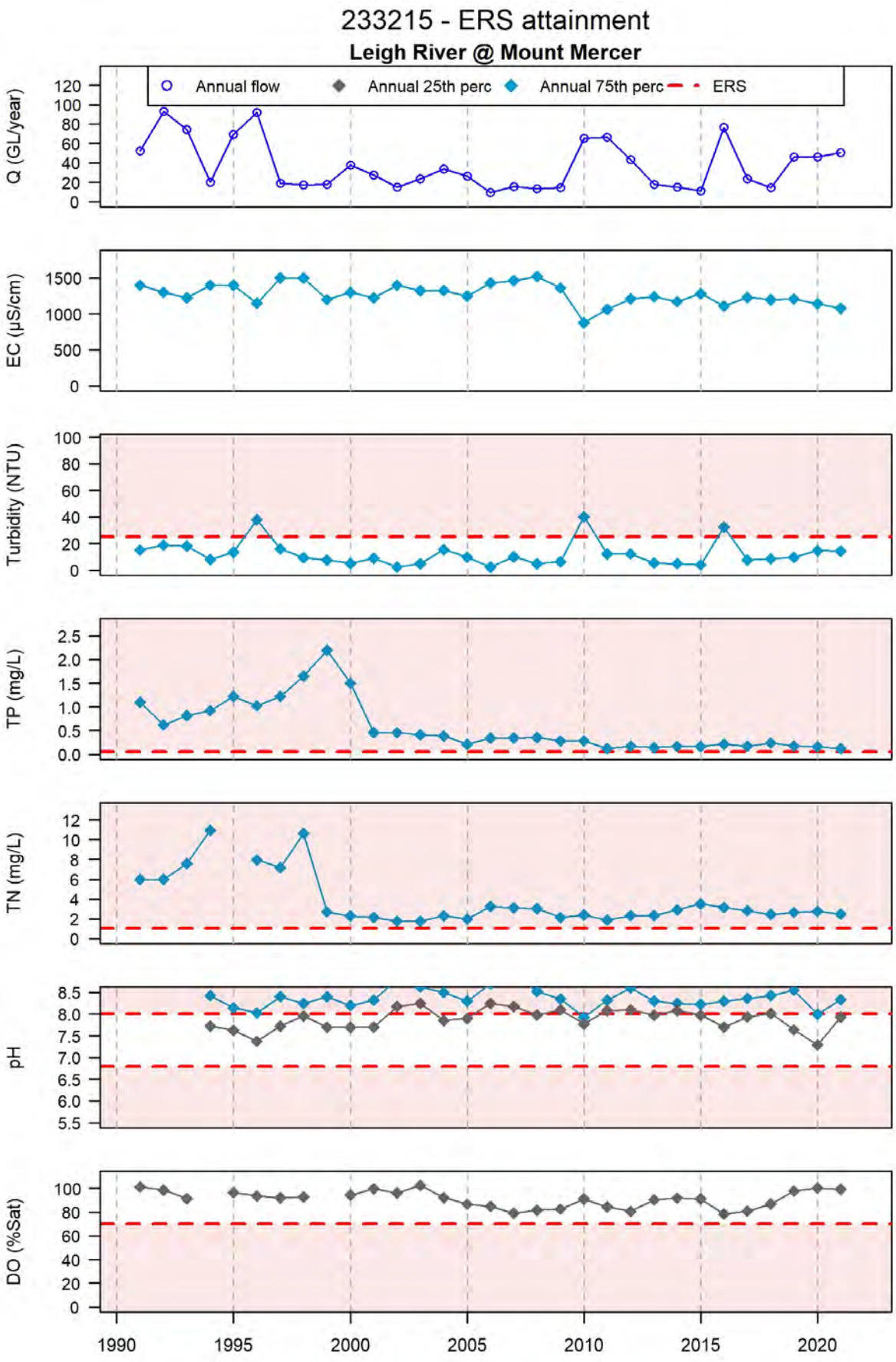

233218 - All samples
Barwon River @ Inverleigh
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

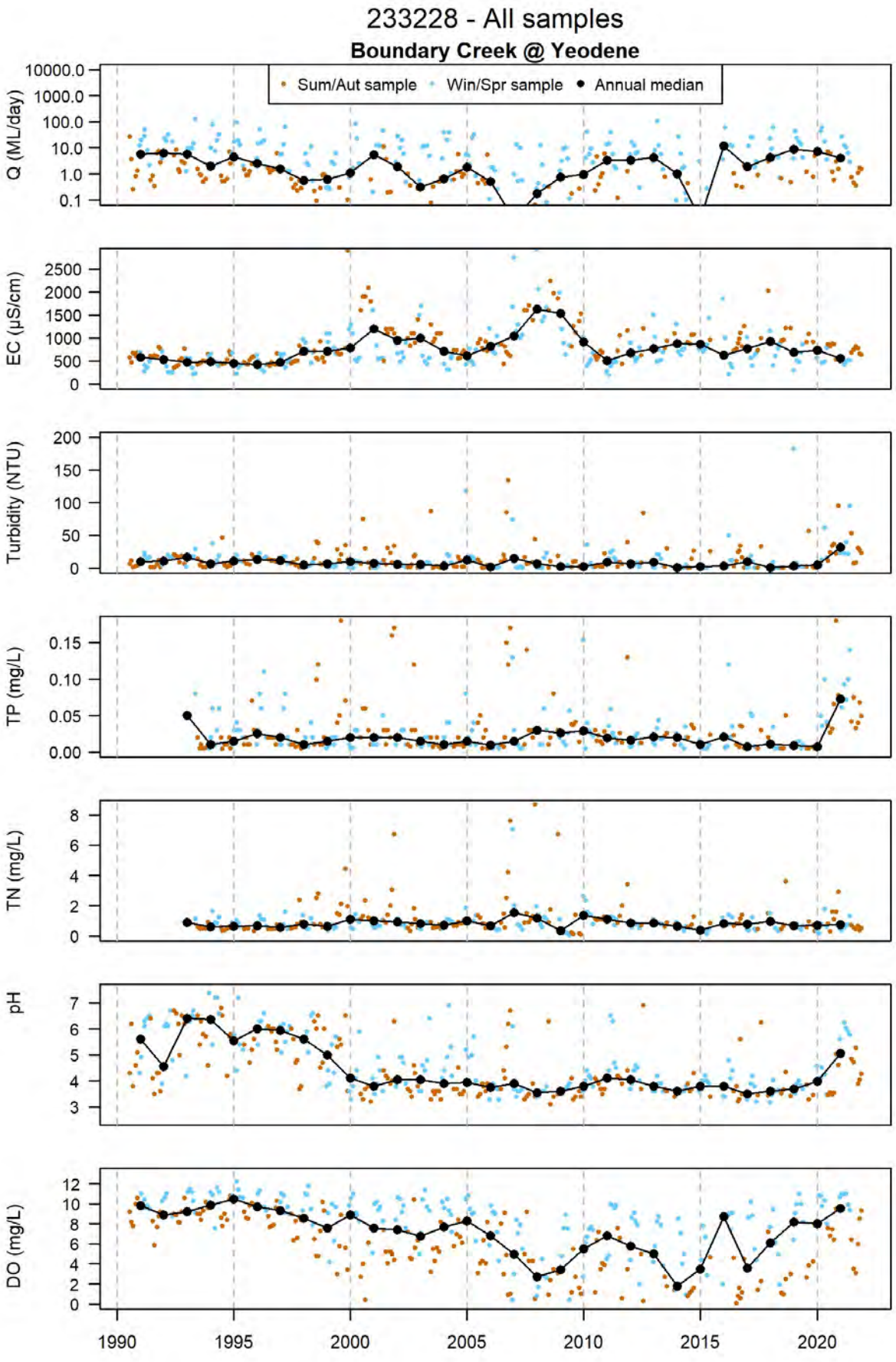

233218 - ERS attainment
Barwon River @ Inverleigh
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

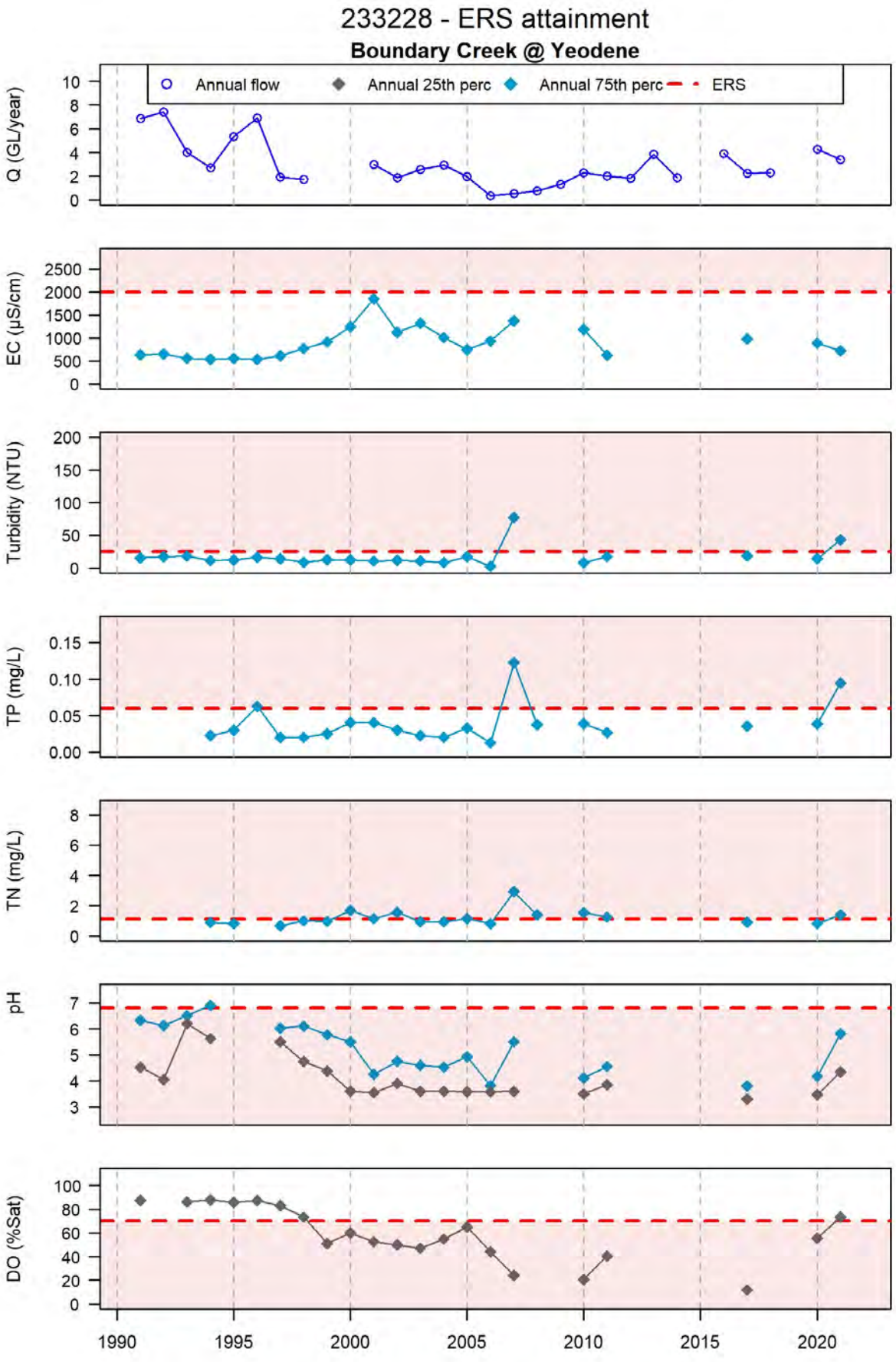

233224 - All samples
Barwon River @ Ricketts Marsh
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020


233224 - ERS attainment
Barwon River @ Ricketts Marsh
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

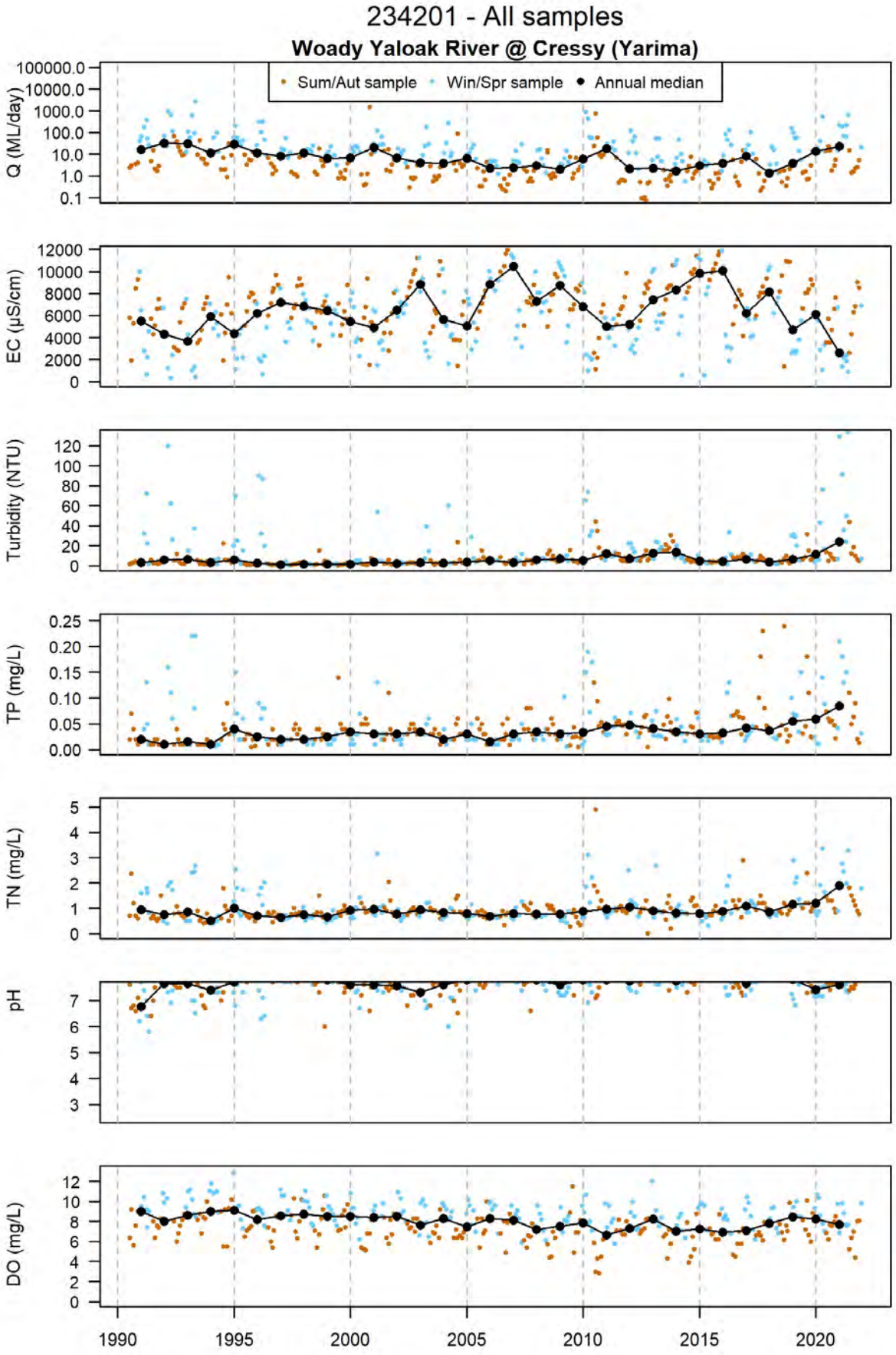

233215 - All samples
Leigh River @ Mount Mercer
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

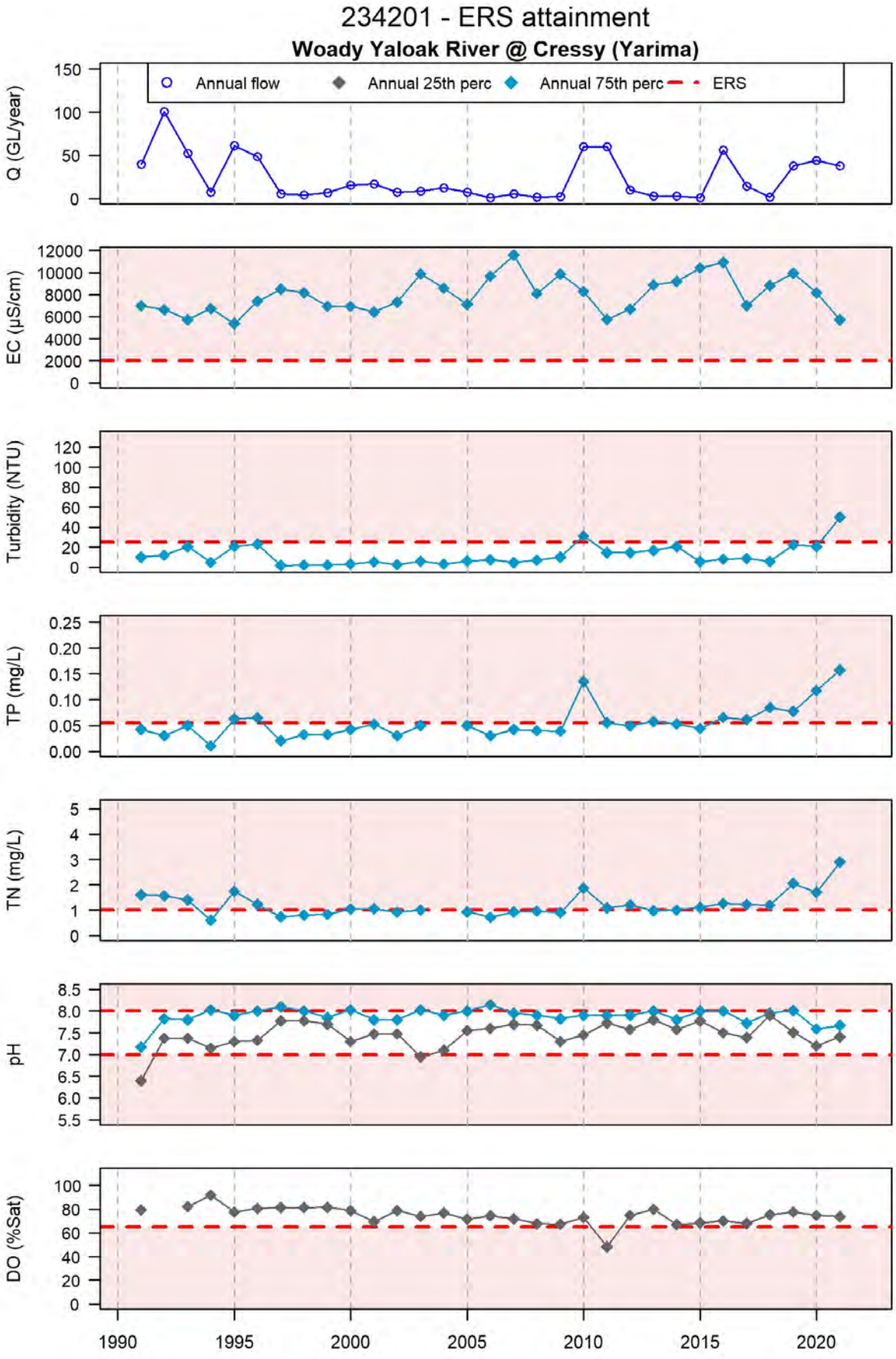

233215 - ERS attainment
Leigh River @ Mount Mercer
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

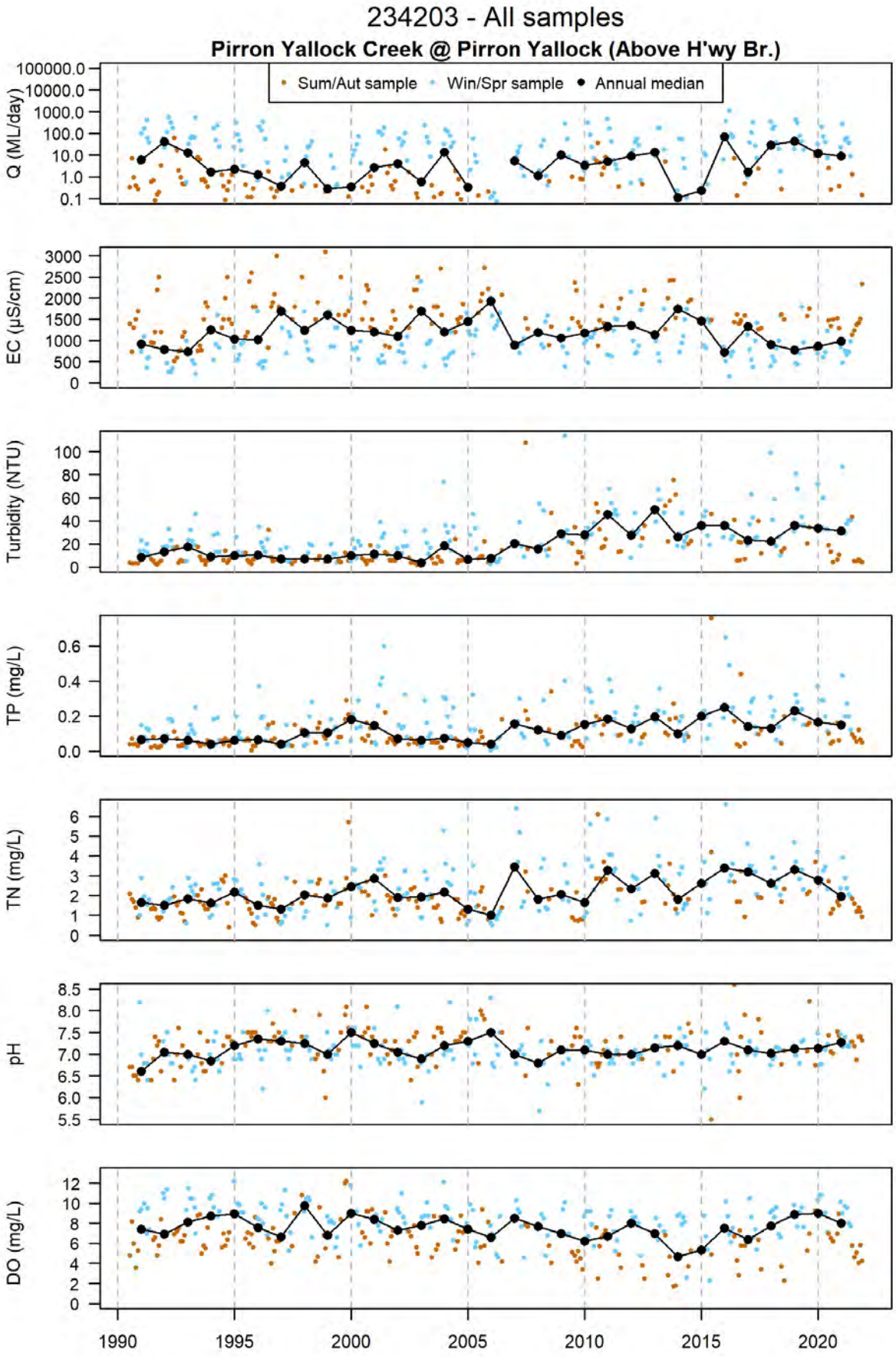

233228 - All samples
Boundary Creek @ Yeodene
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

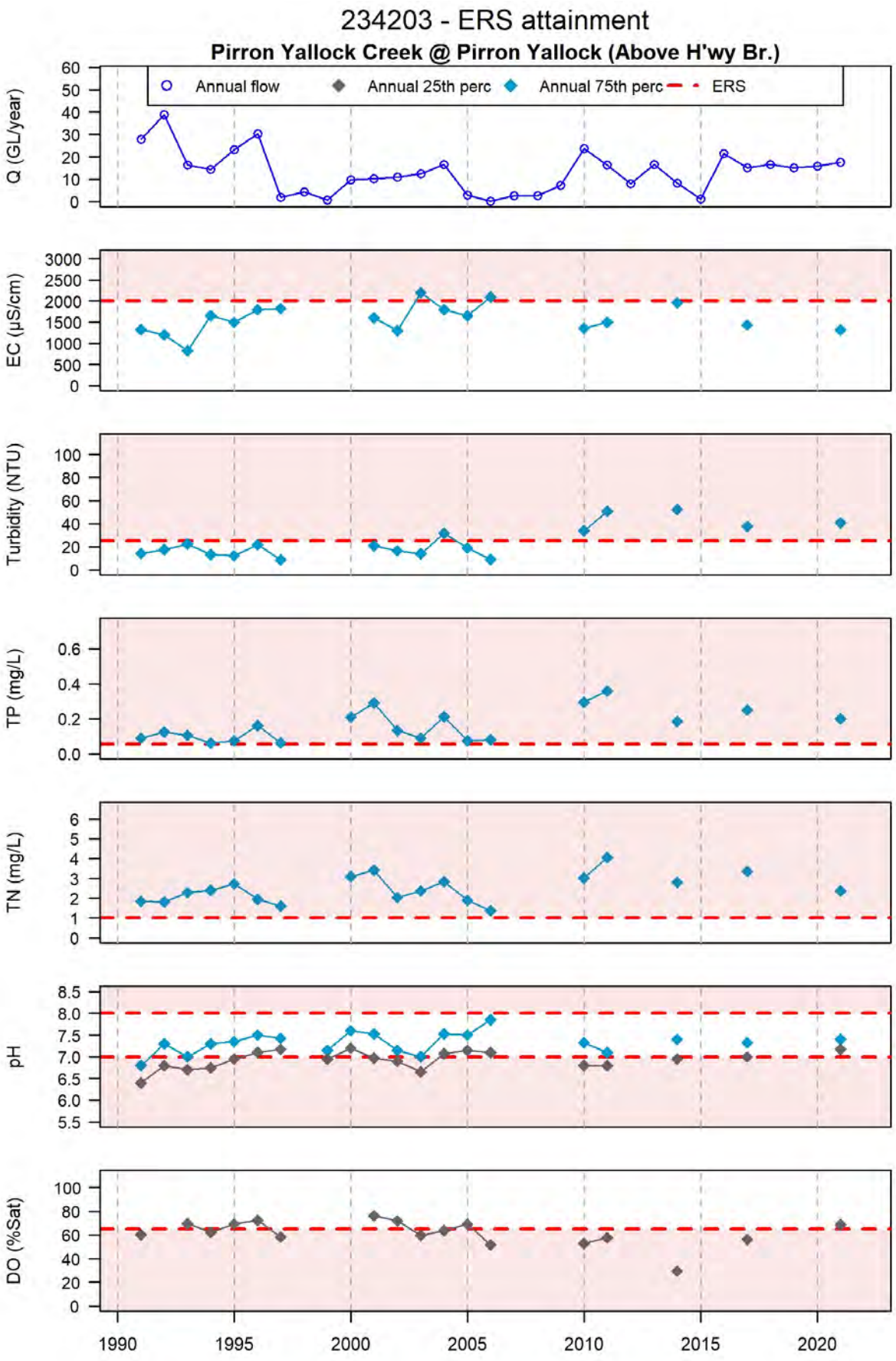

233228 - ERS attainment
Boundary Creek @ Yeodene
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

Lake Corangamite

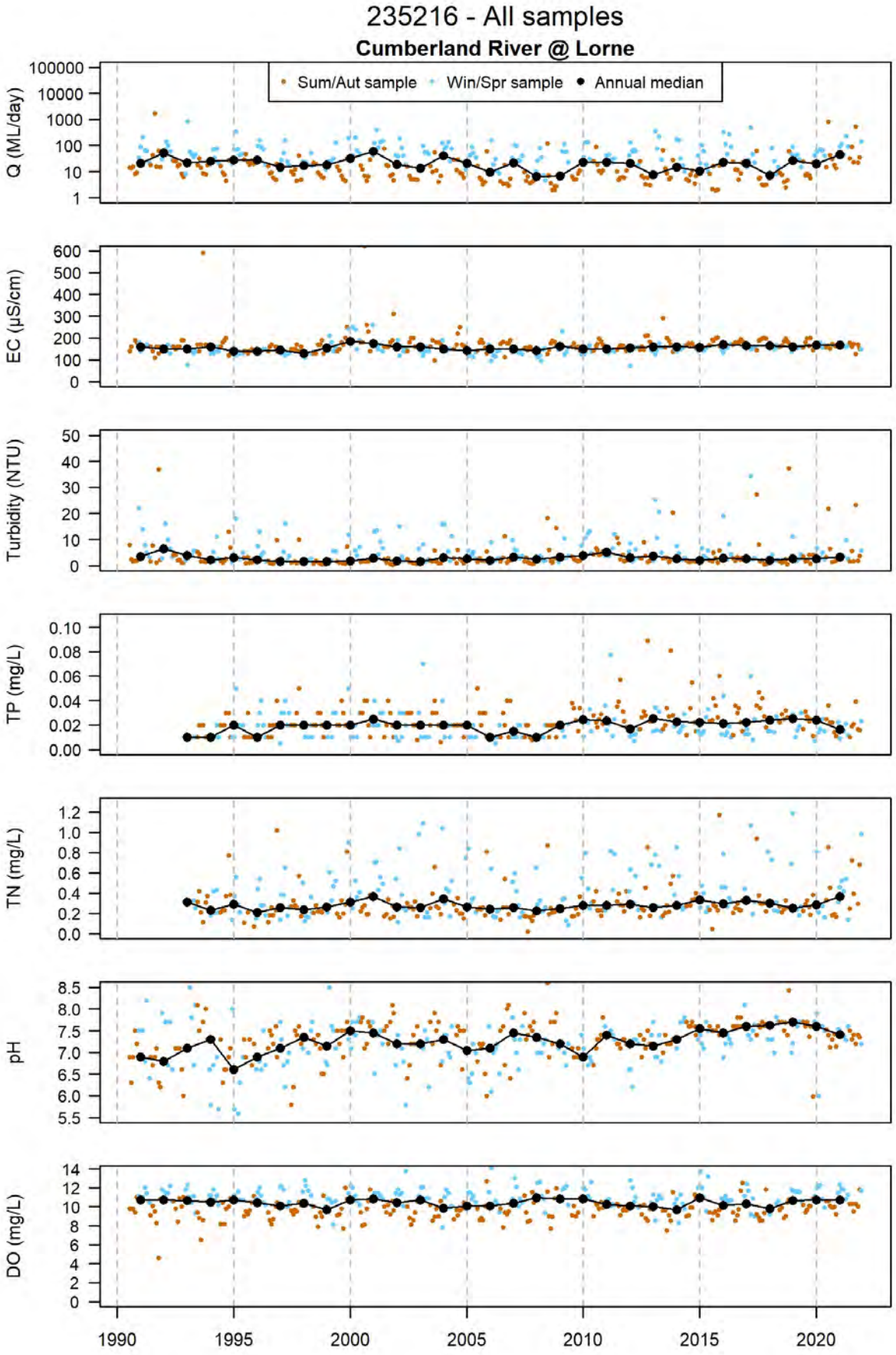


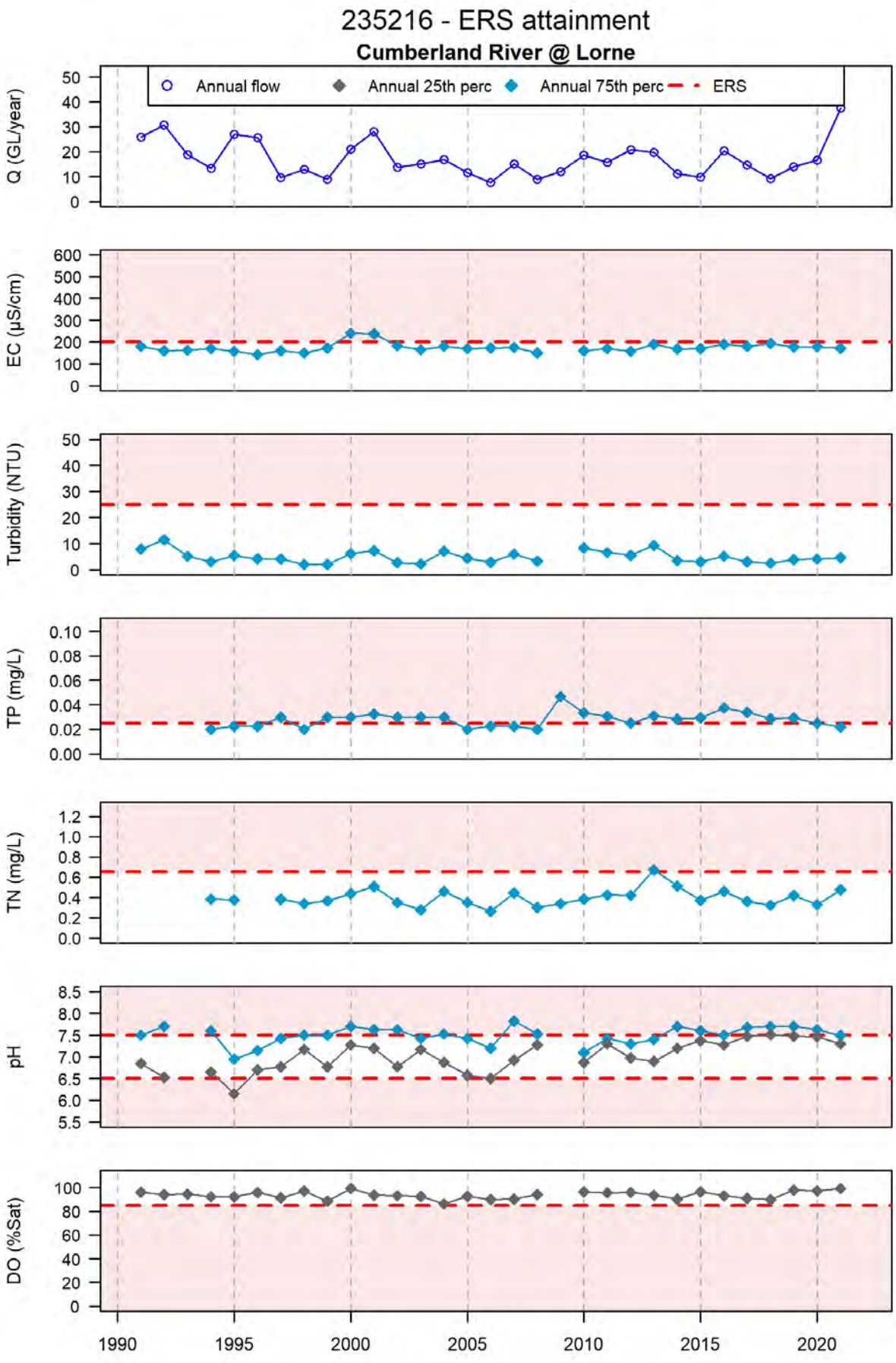

234201 - ERS attainment
Woady Yaloak River @ Cressy (Yarima)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

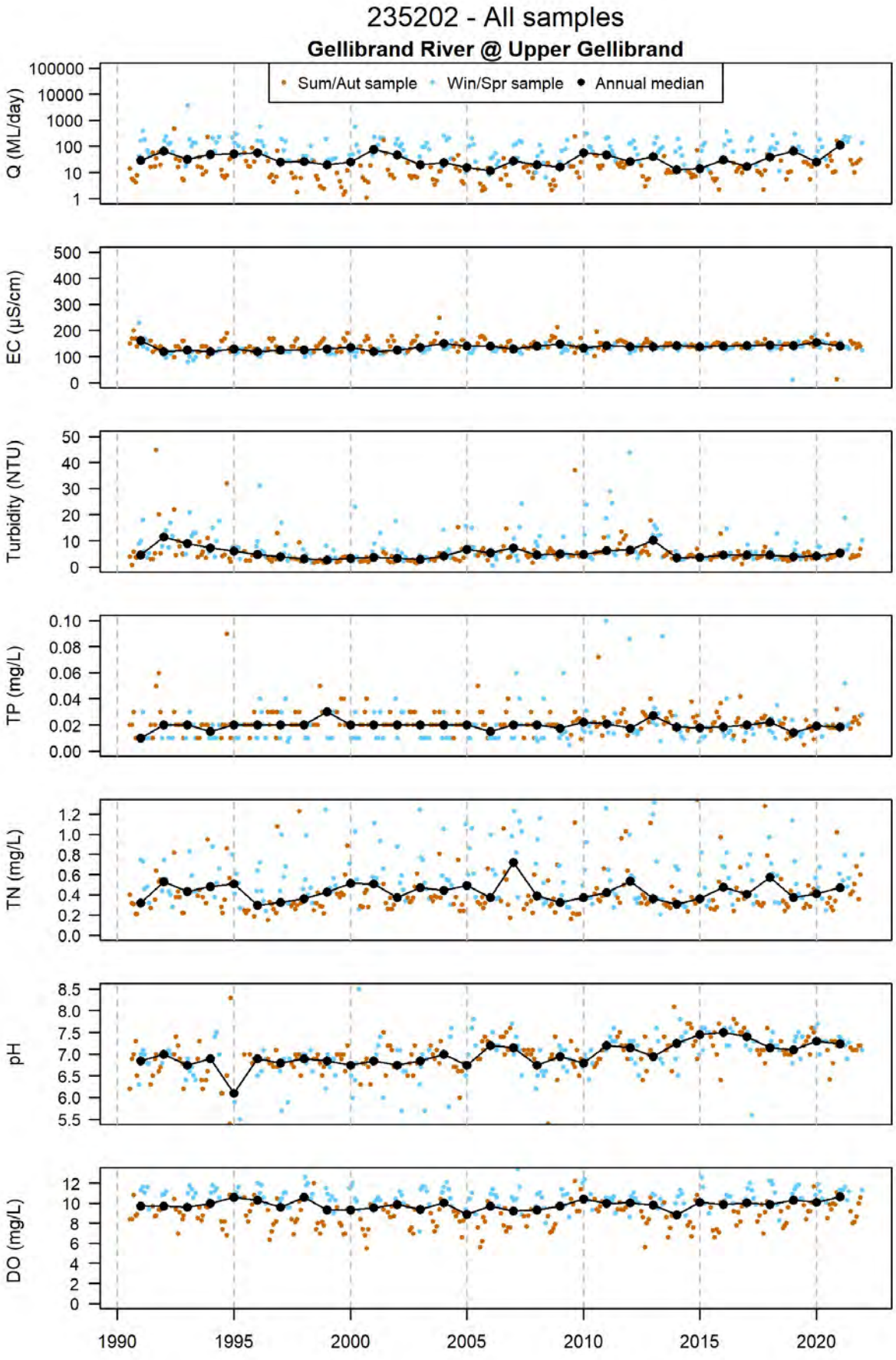

234203 - All samples
Pirron Yallock Creek @ Pirron Yallock (Above H'wy Br.)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

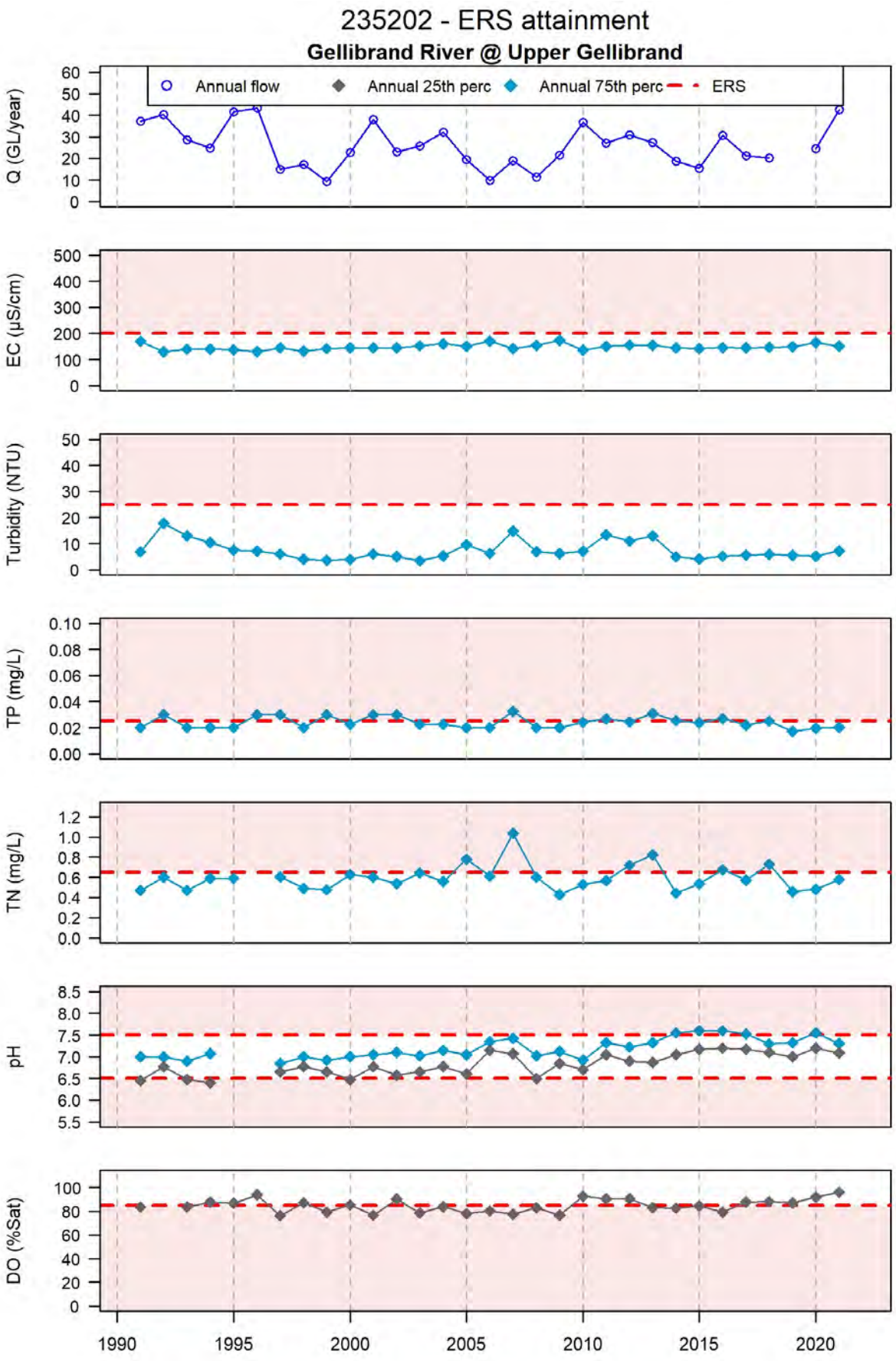

234203 - ERS attainment
Pirron Yallock Creek @ Pirron Yallock (Above H'wy Br.)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

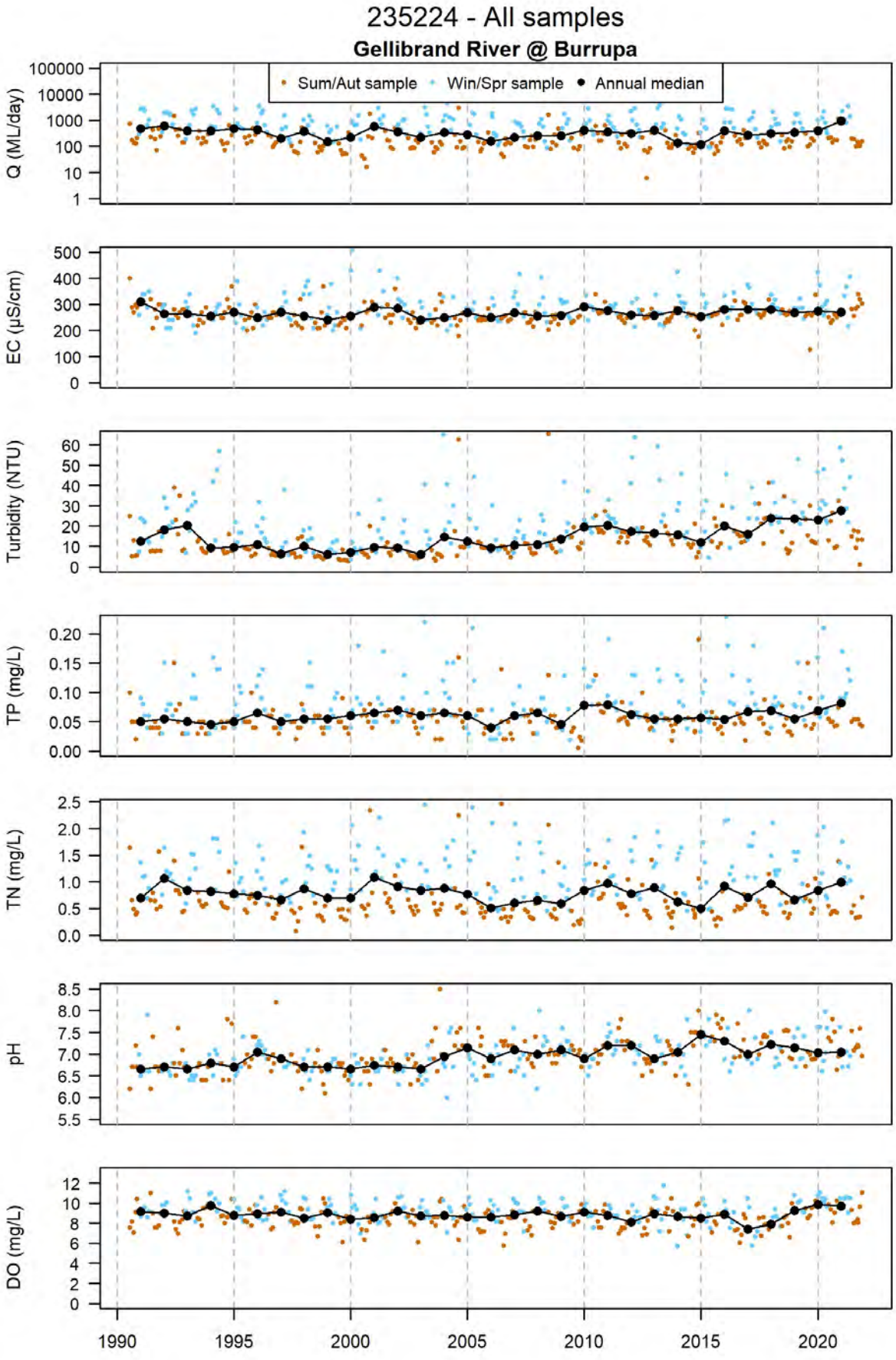
Otway Coast Basin

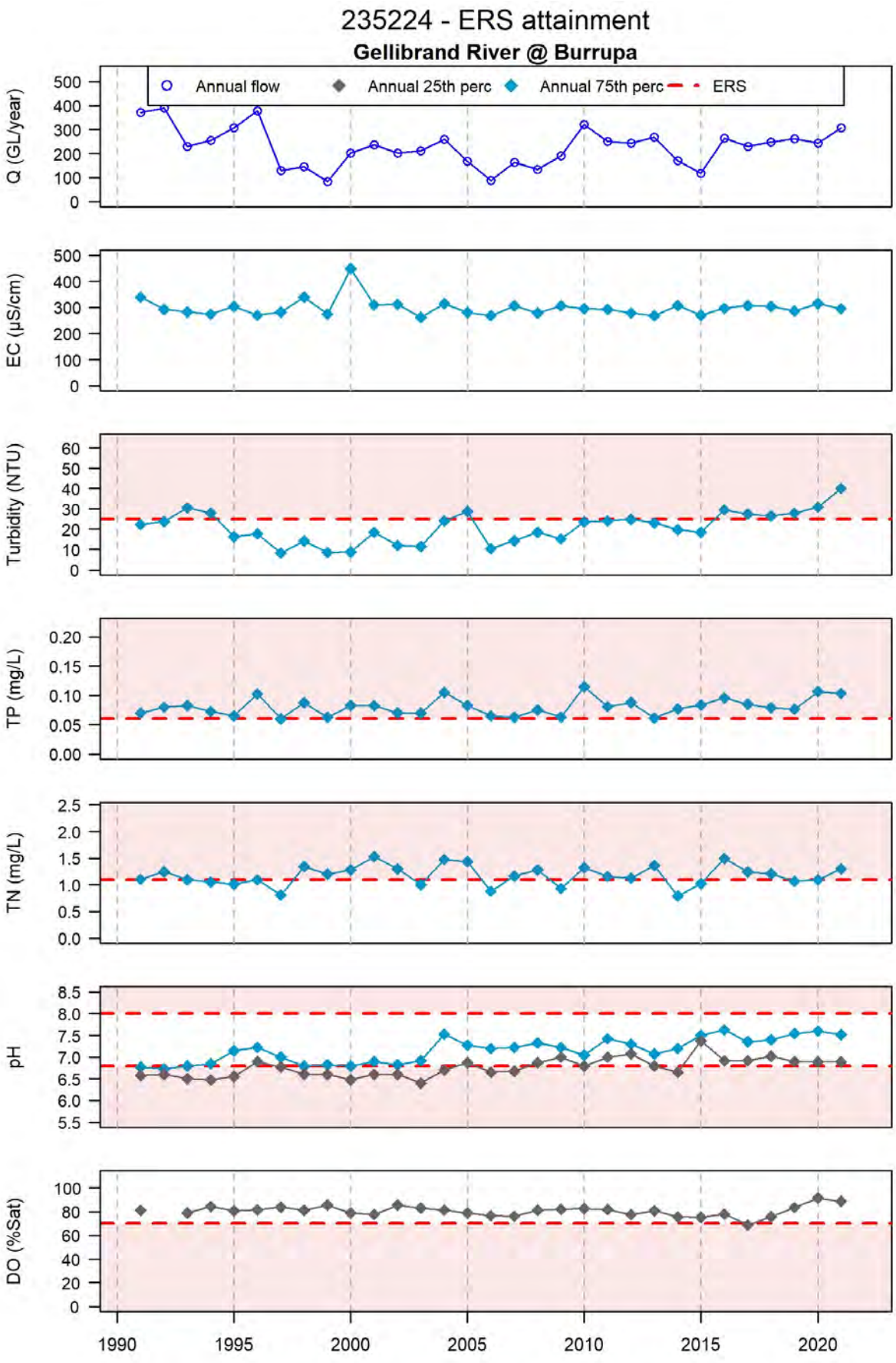


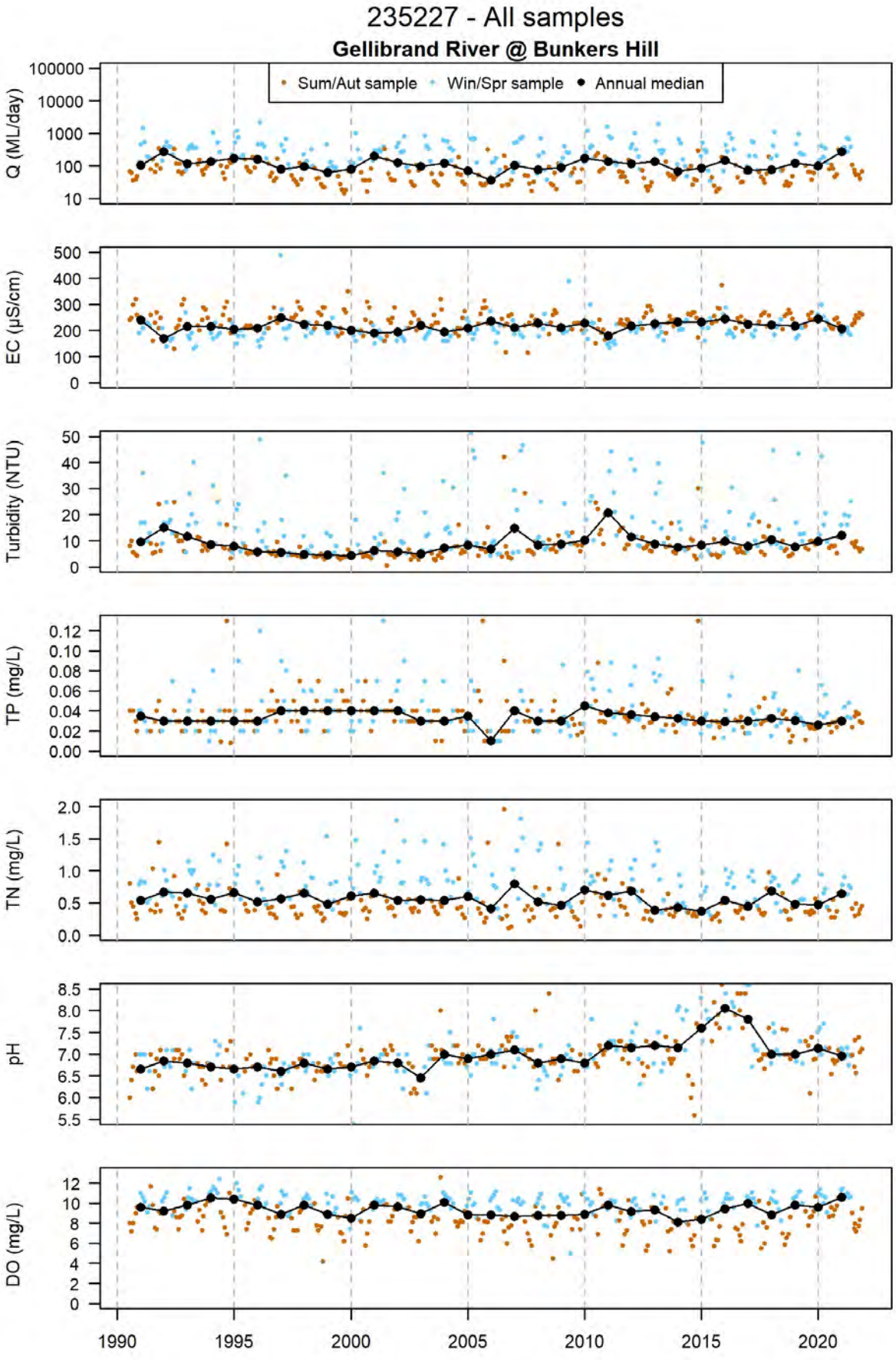

235216 - ERS attainment
Cumberland River @ Lorne
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

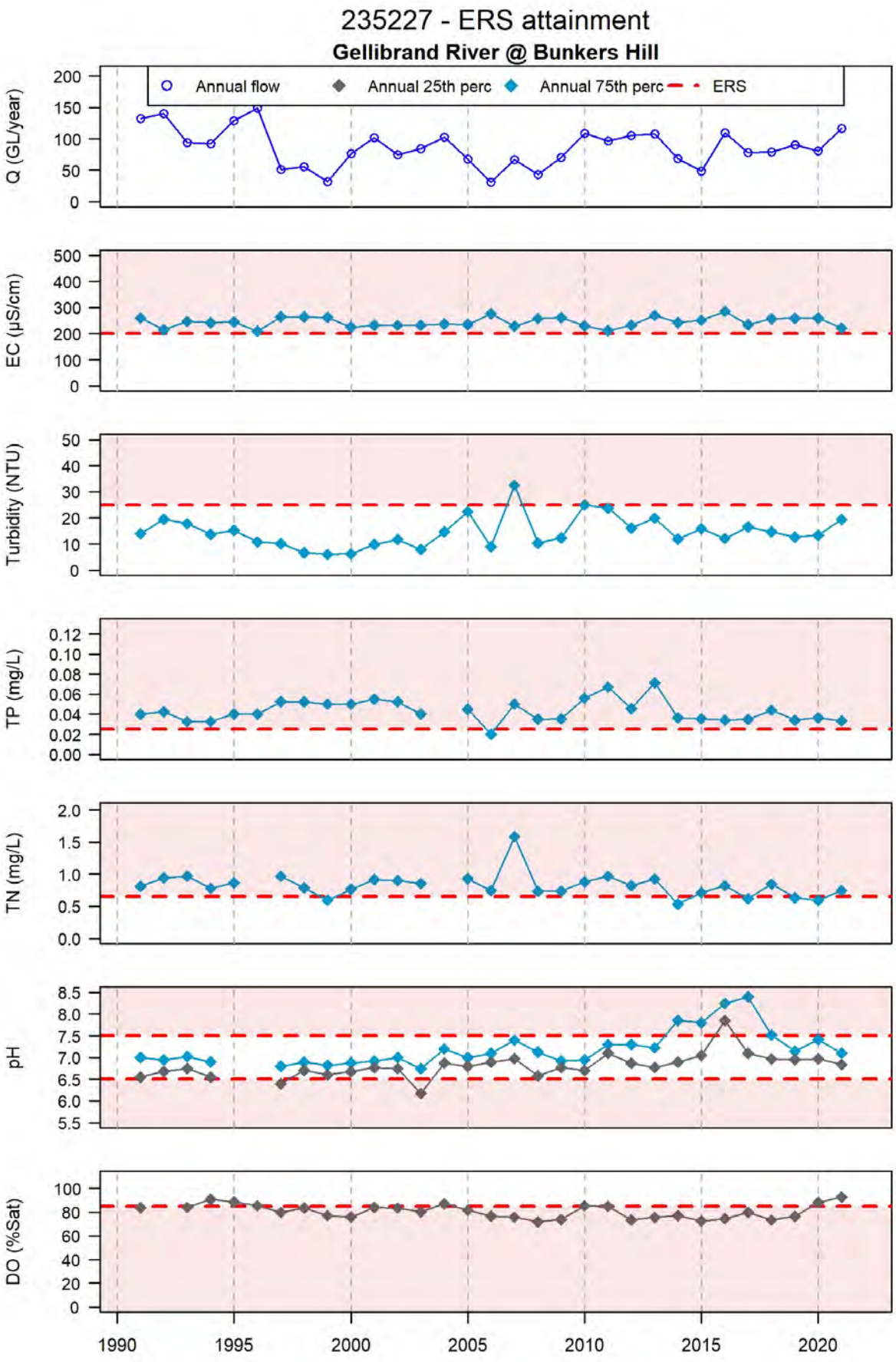

235202 - All samples
Gellibrand River @ Upper Gellibrand
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

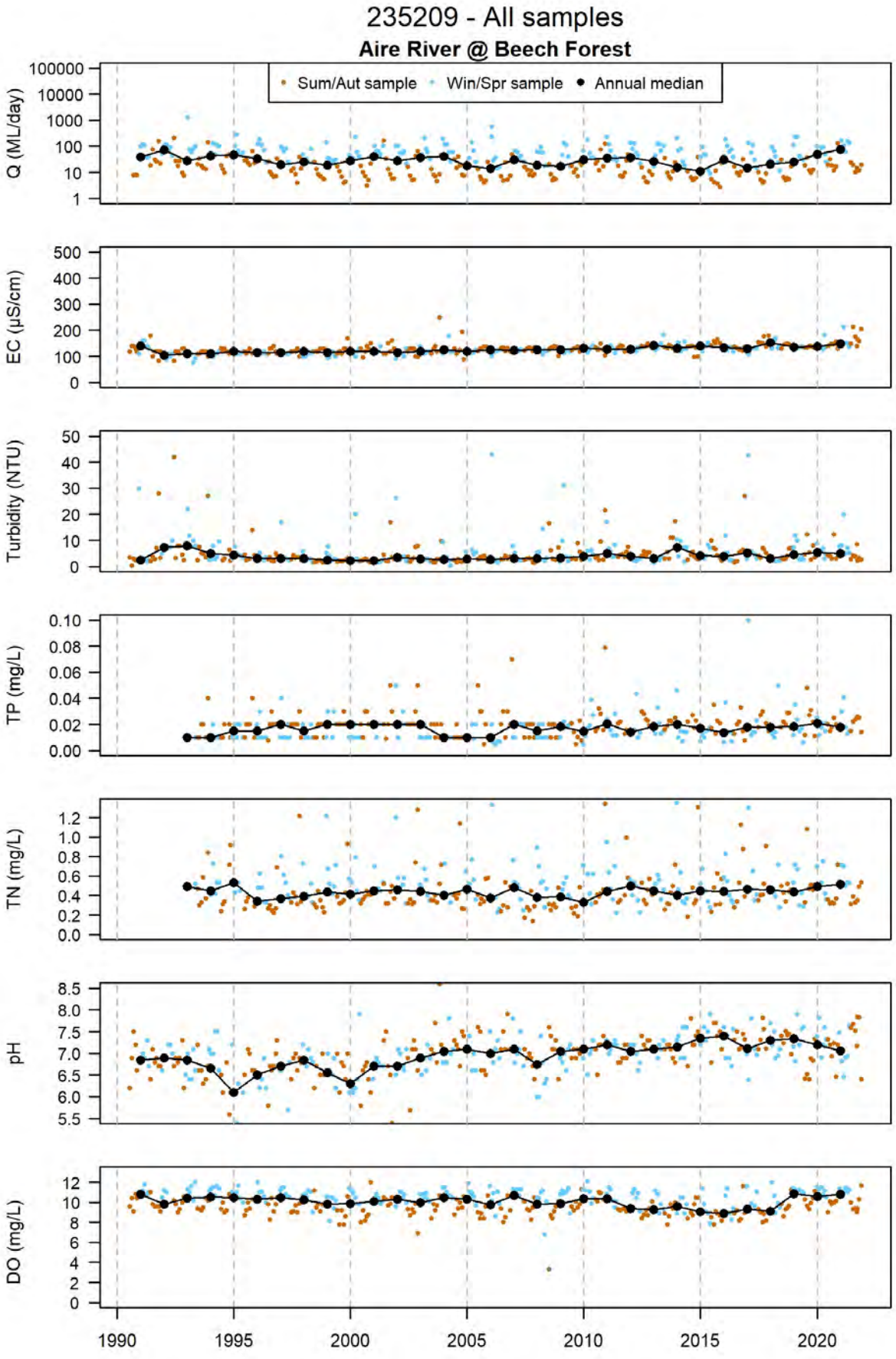

235202 - ERS attainment
Gellibrand River @ Upper Gellibrand
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

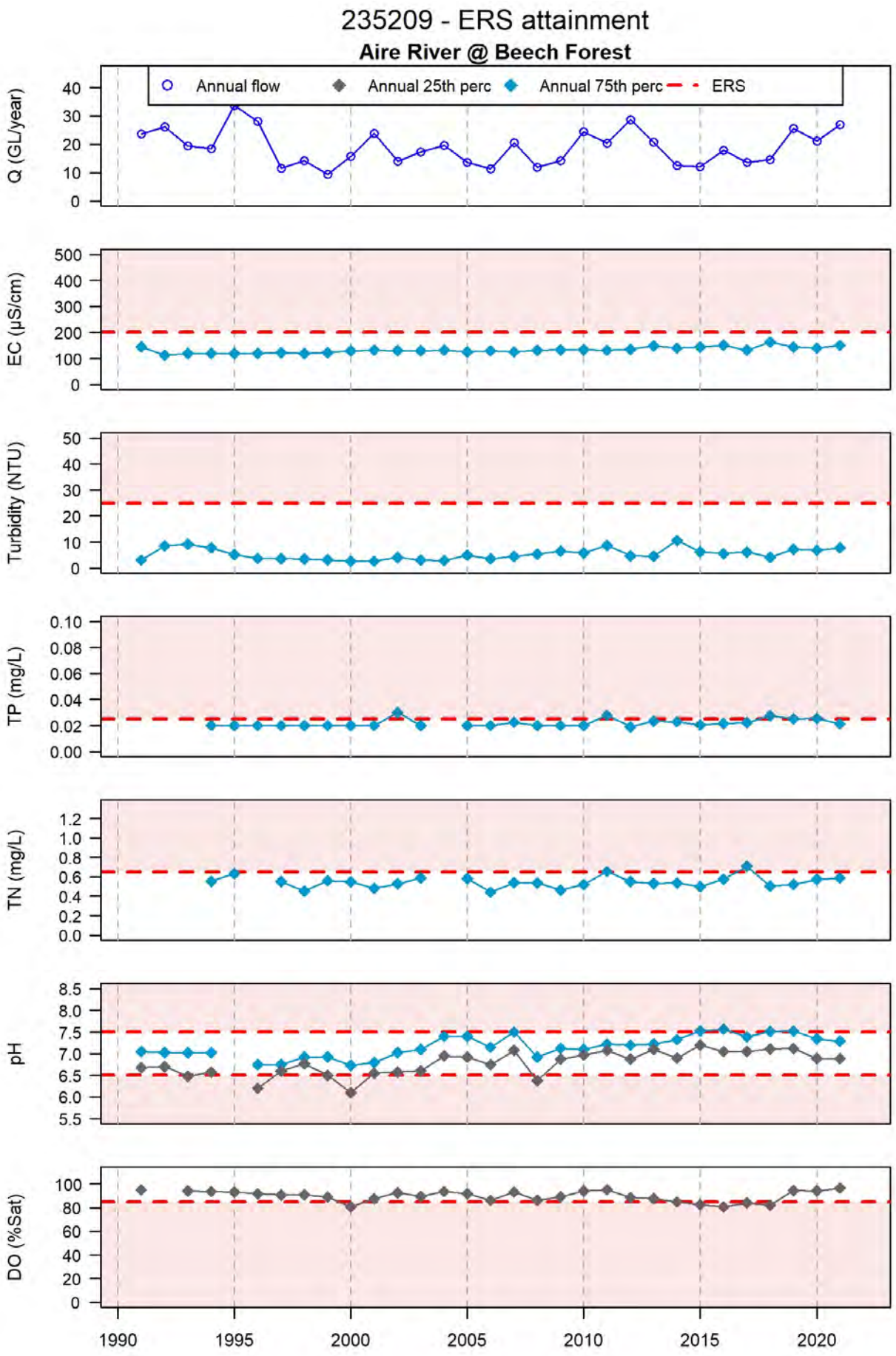

235224 - All samples
Gellibrand River @ Burrupa
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

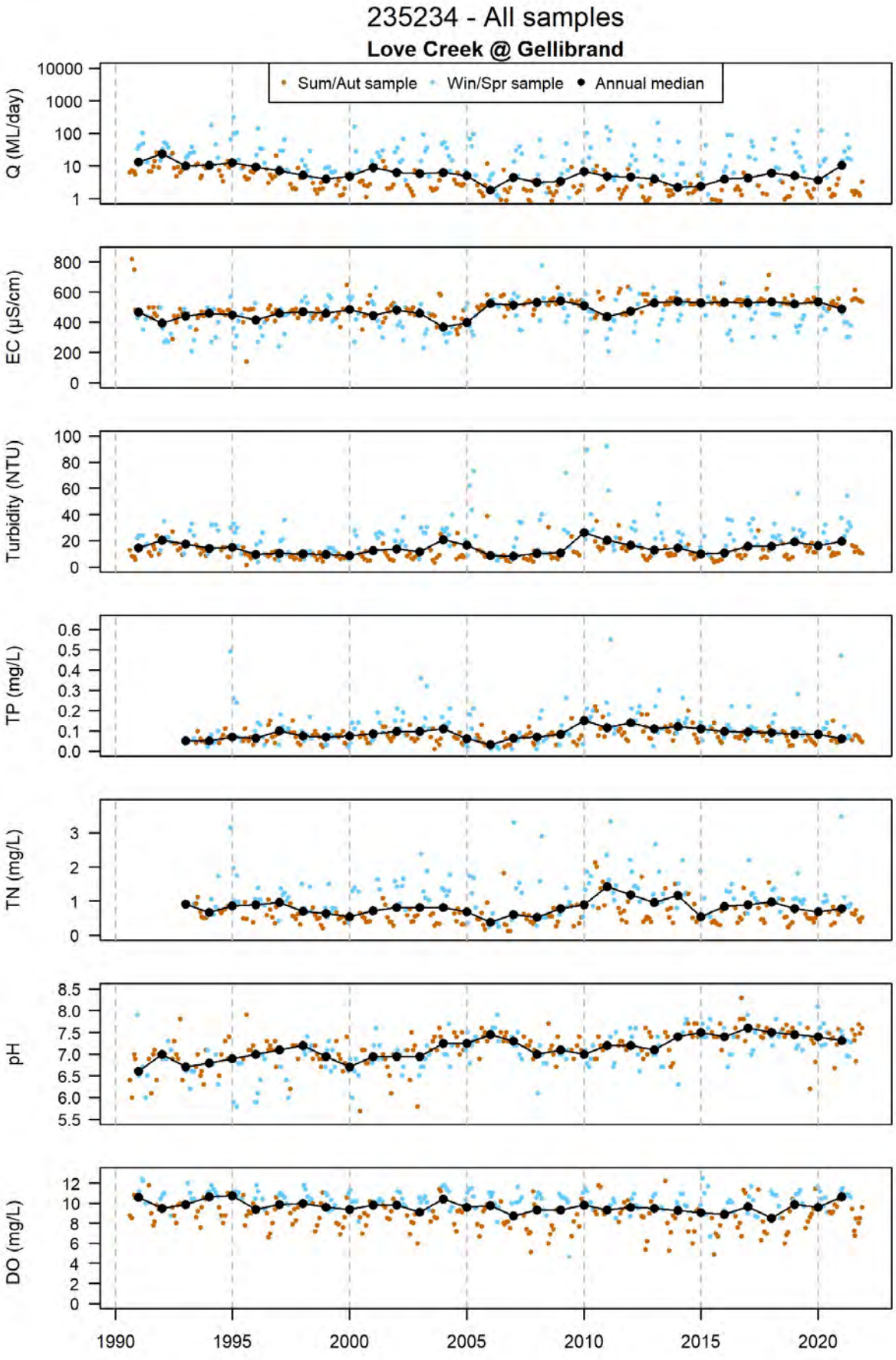

235224 - ERS attainment
Gellibrand River @ Burrupa
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

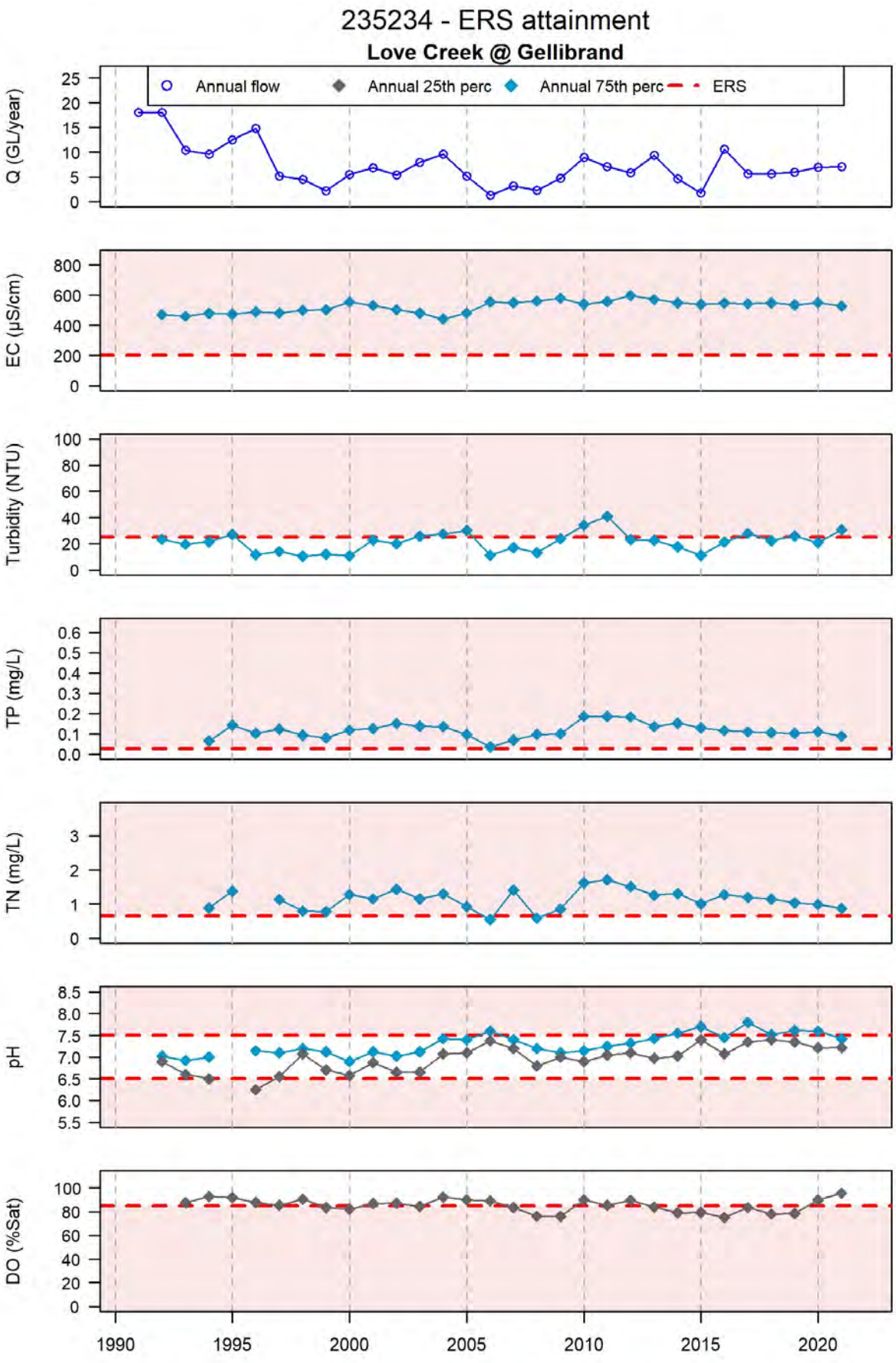

235227 - All samples
Gellibrand River @ Bunkers Hill
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

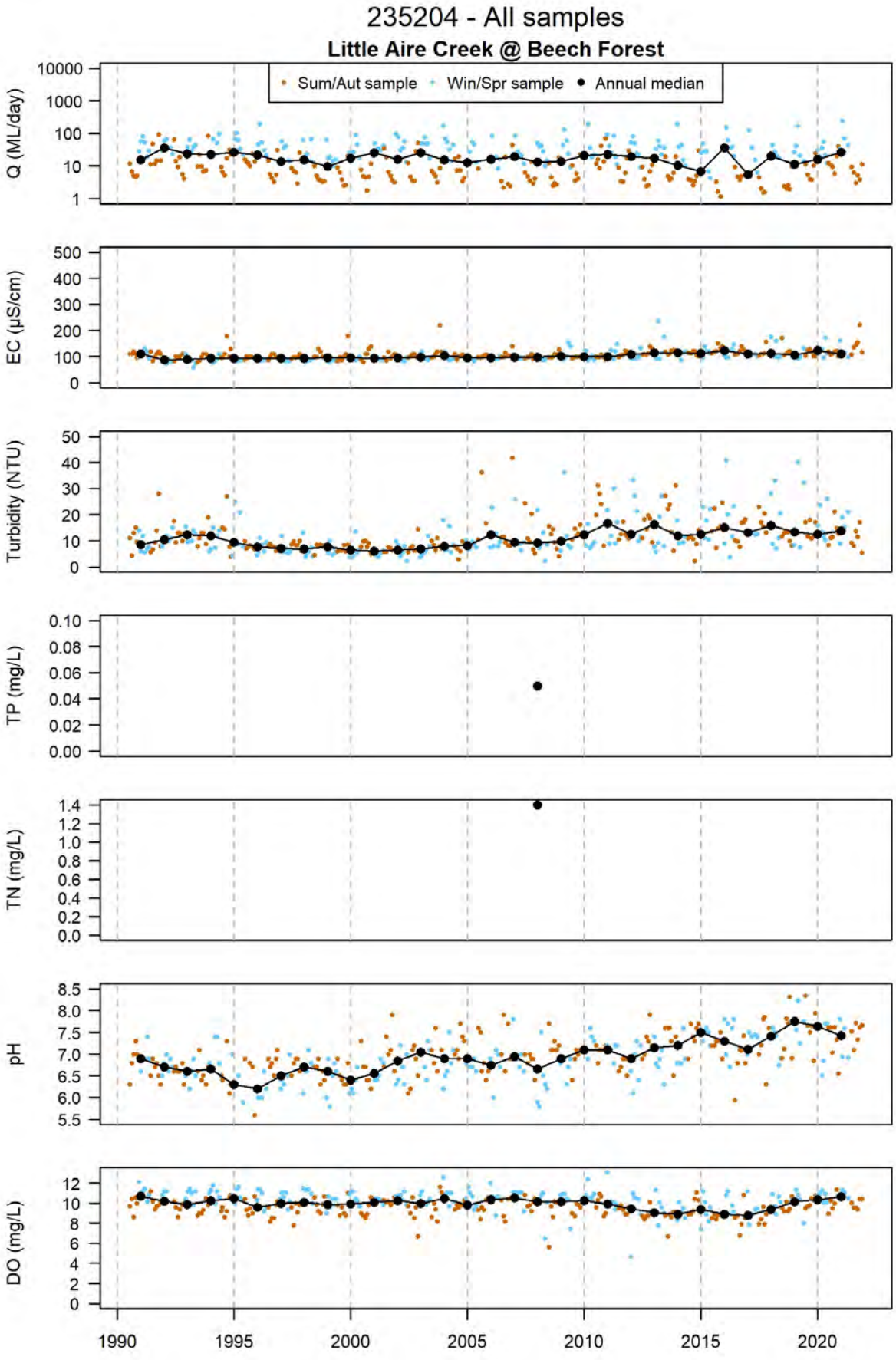

235227 - ERS attainment
Gellibrand River @ Bunkers Hill
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

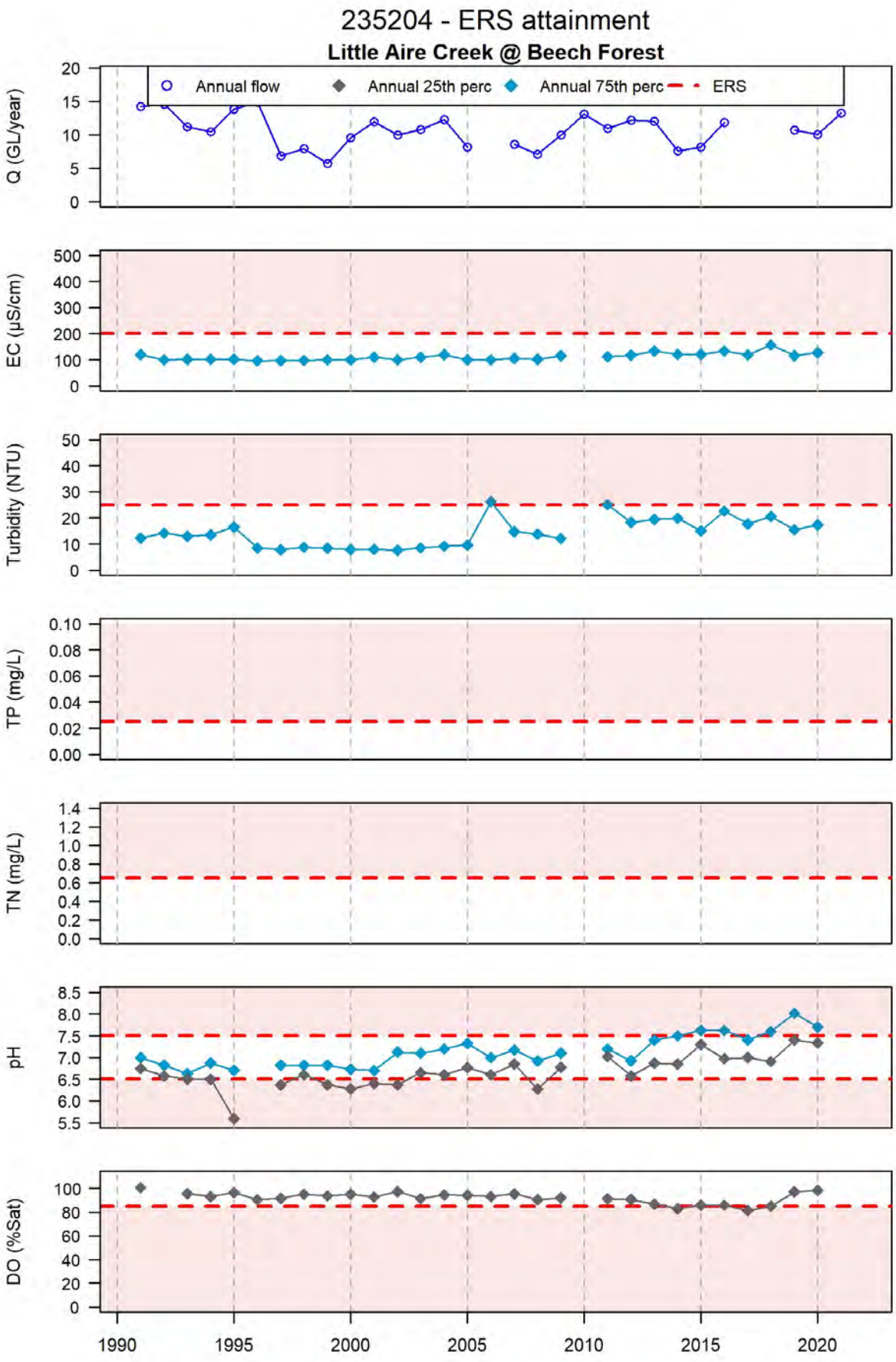

235209 - All samples
Aire River @ Beech Forest
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

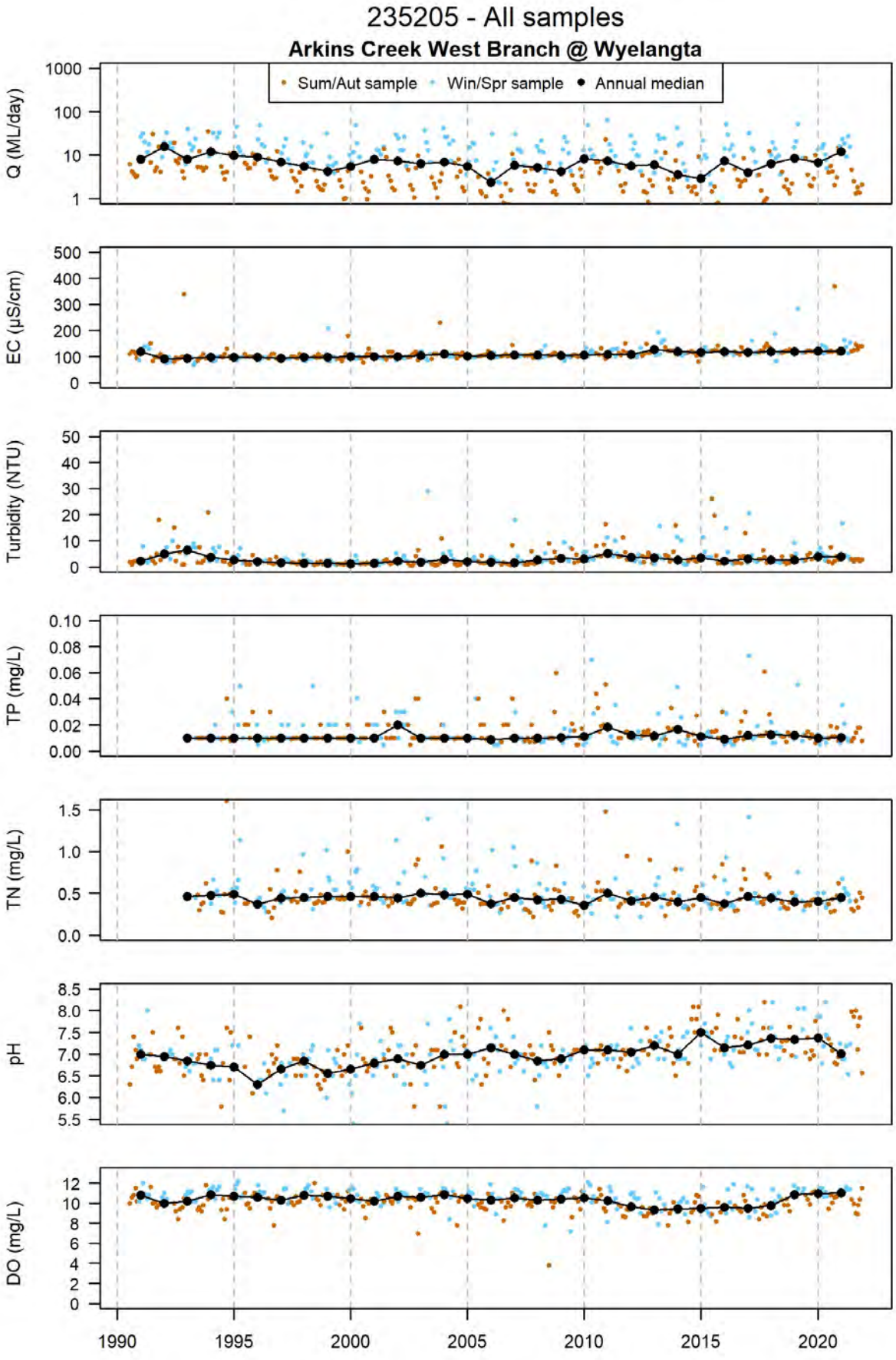

235209 - ERS attainment
Aire River @ Beech Forest
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

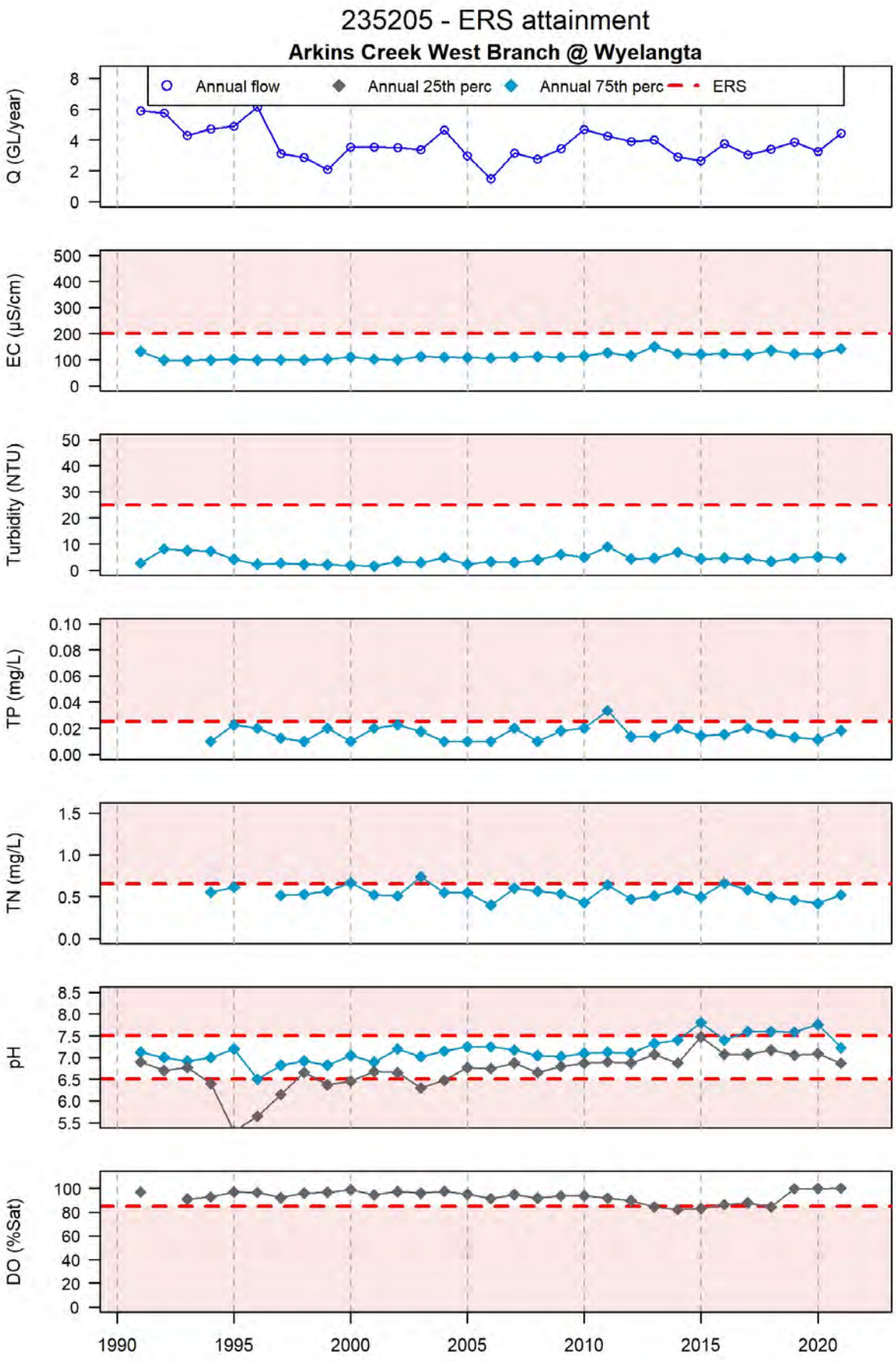

235234 - All samples
Love Creek @ Gellibrand
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

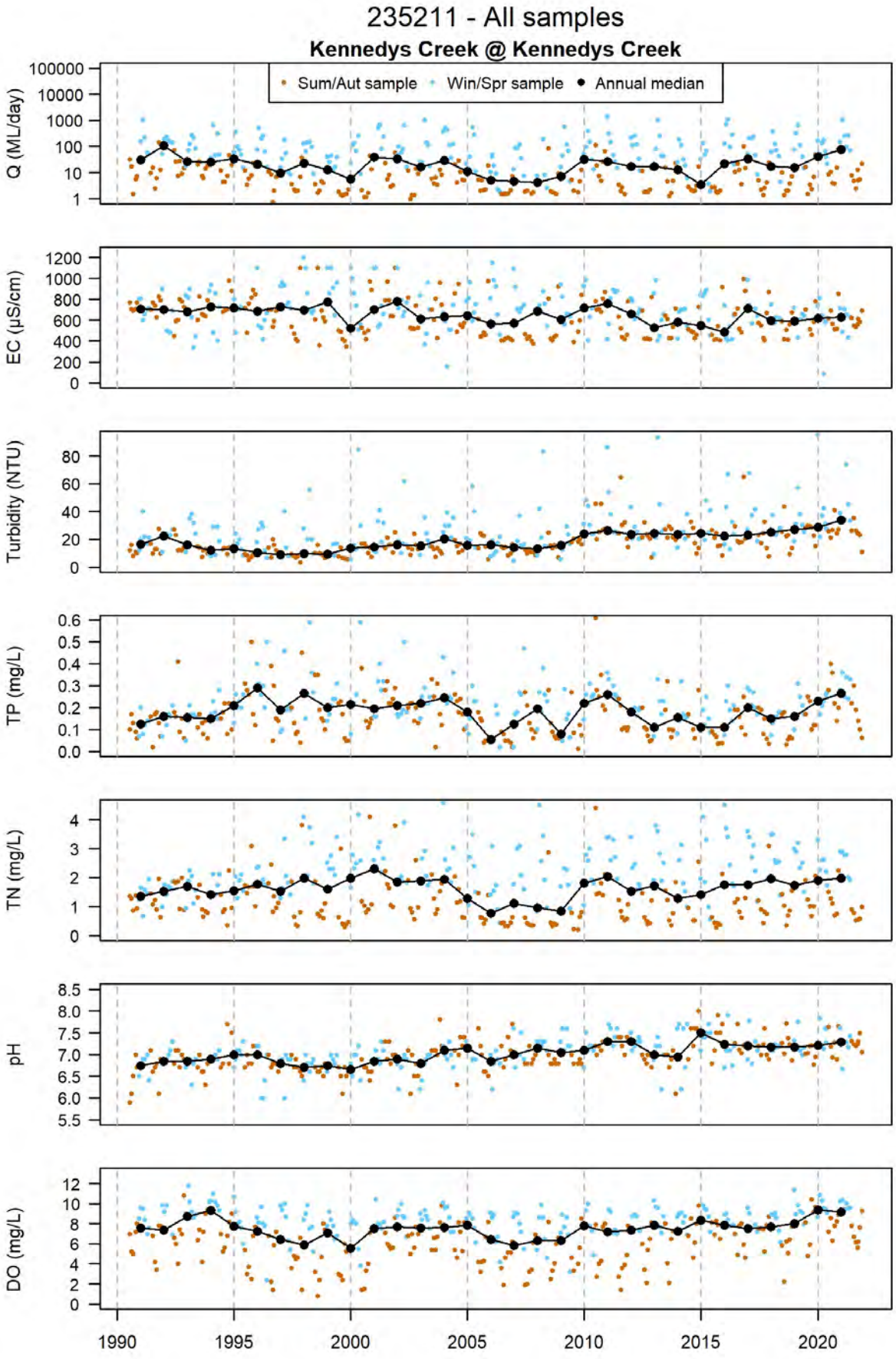

235234 - ERS attainment
Love Creek @ Gellibrand
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

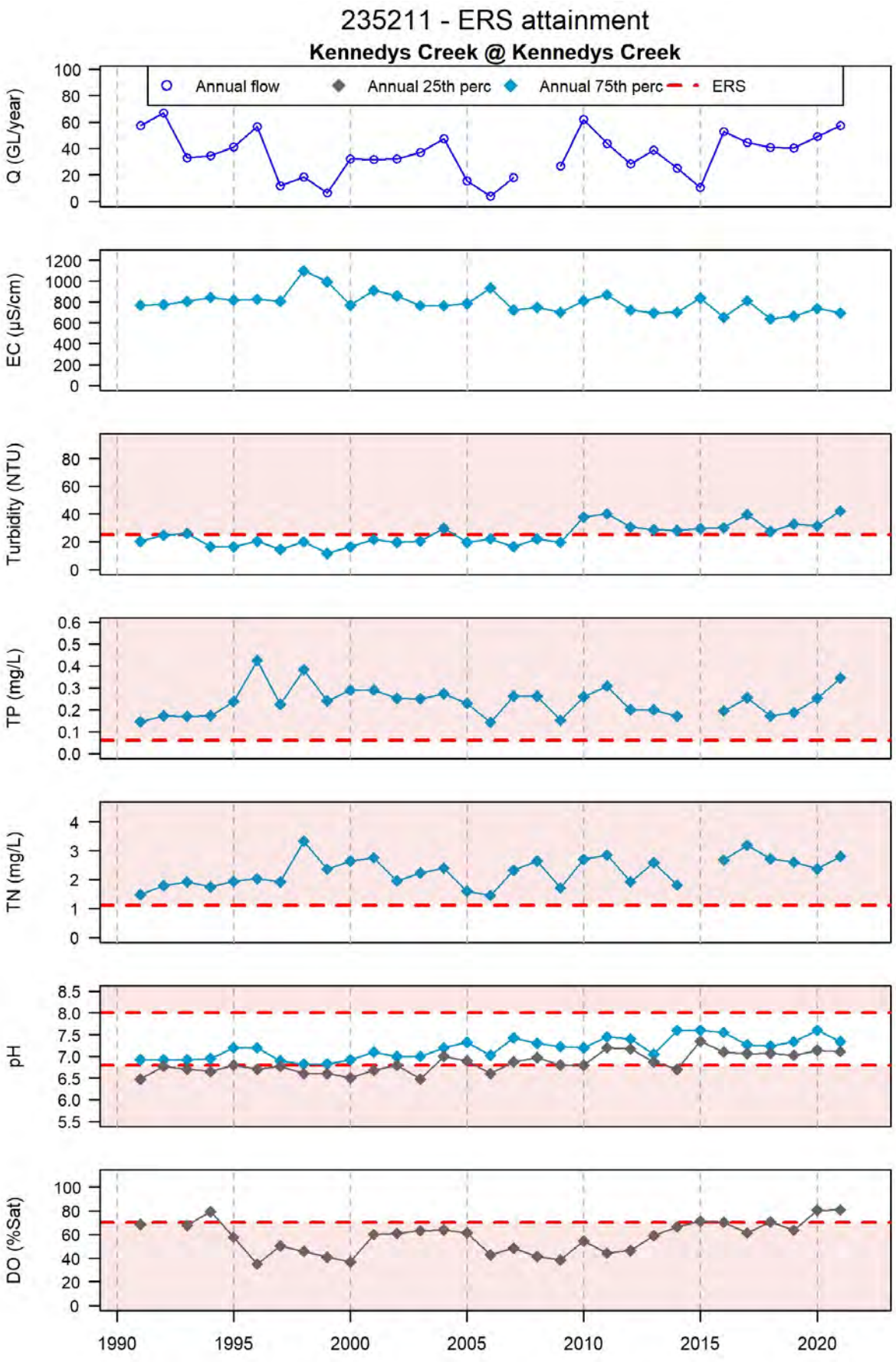

235204 - All samples
Little Aire Creek @ Beech Forest
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

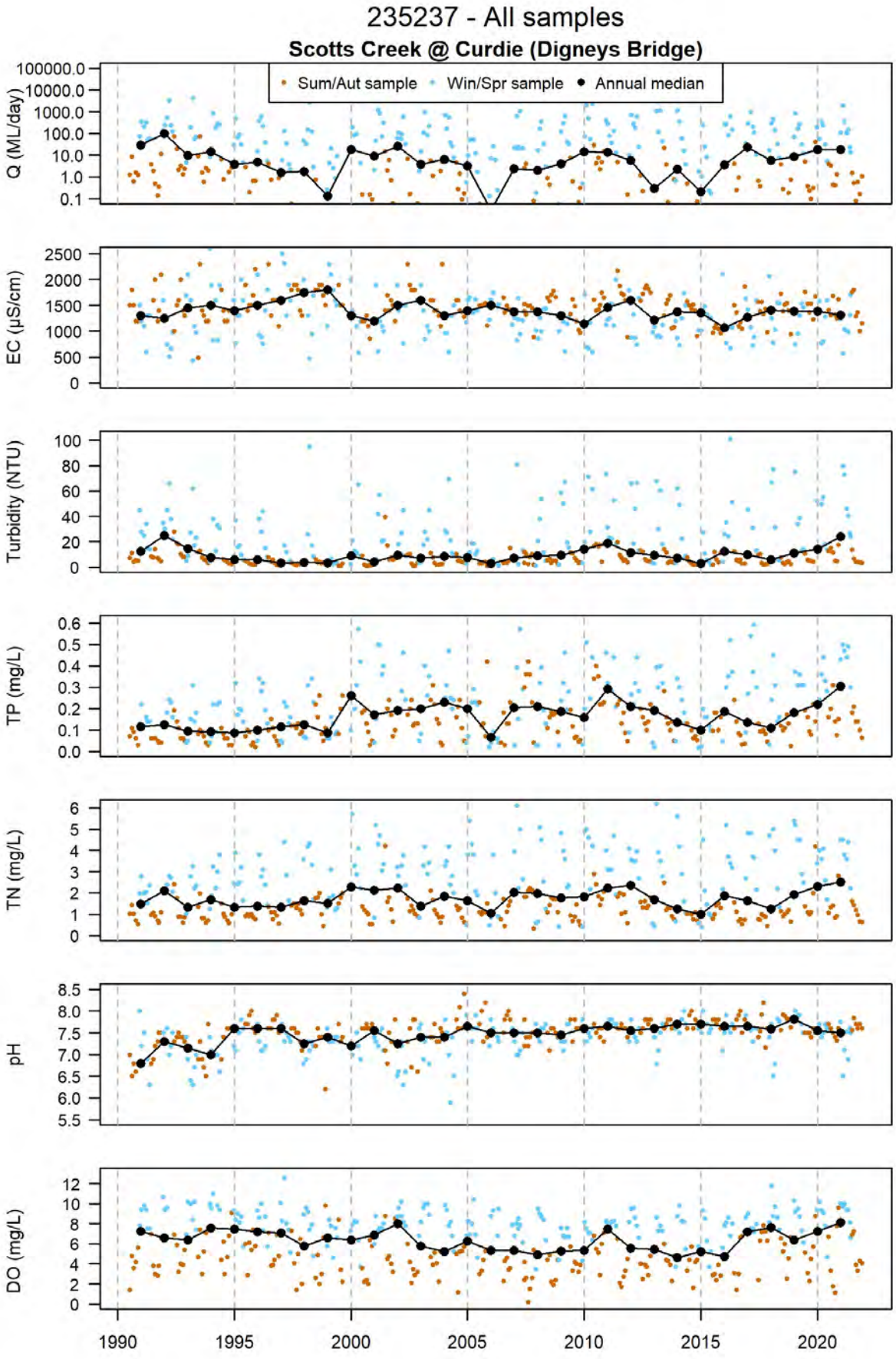

235204 - ERS attainment
Little Aire Creek @ Beech Forest
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

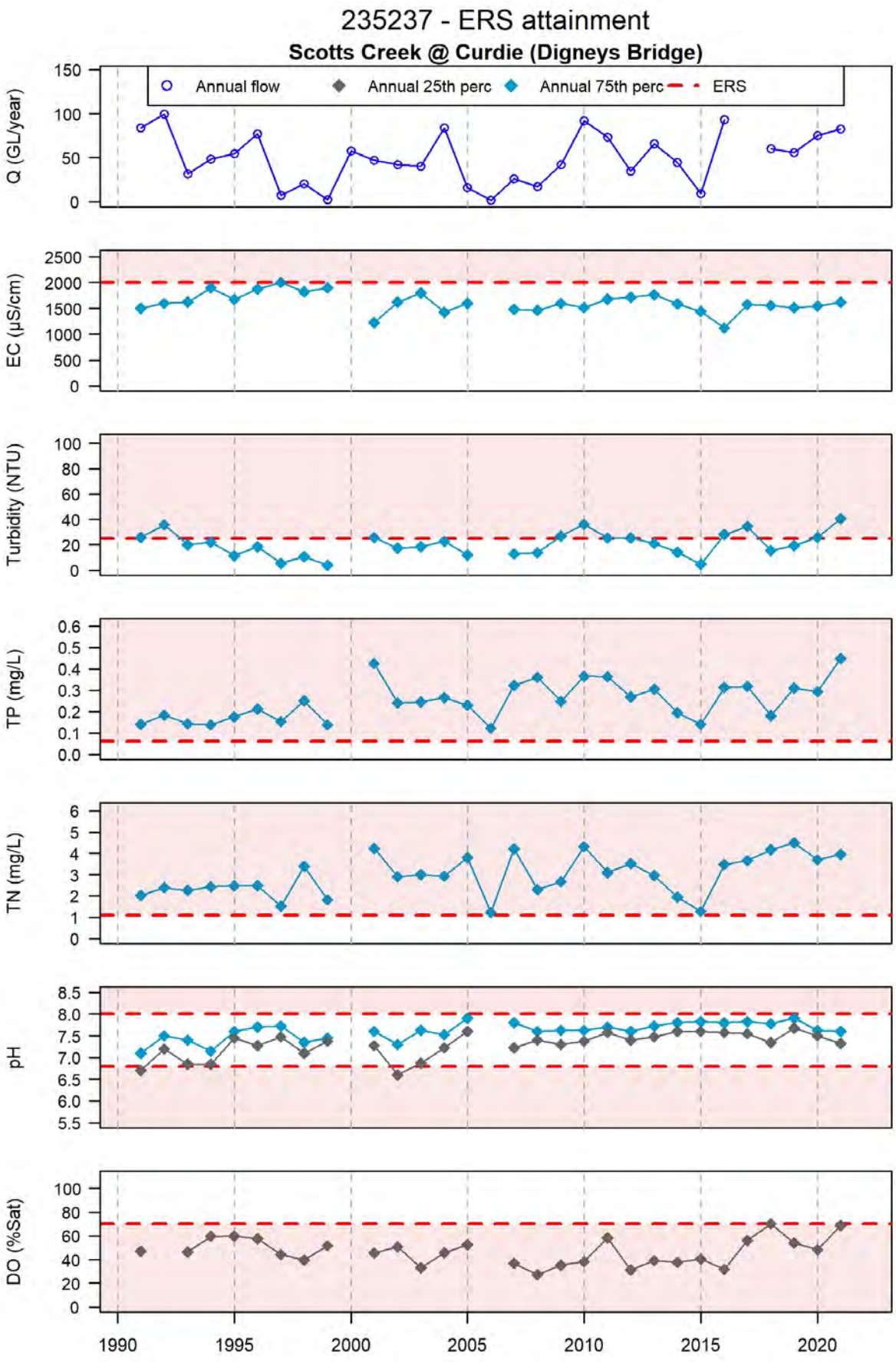

235205 - All samples
Arkins Creek West Branch @ Wyelangta
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

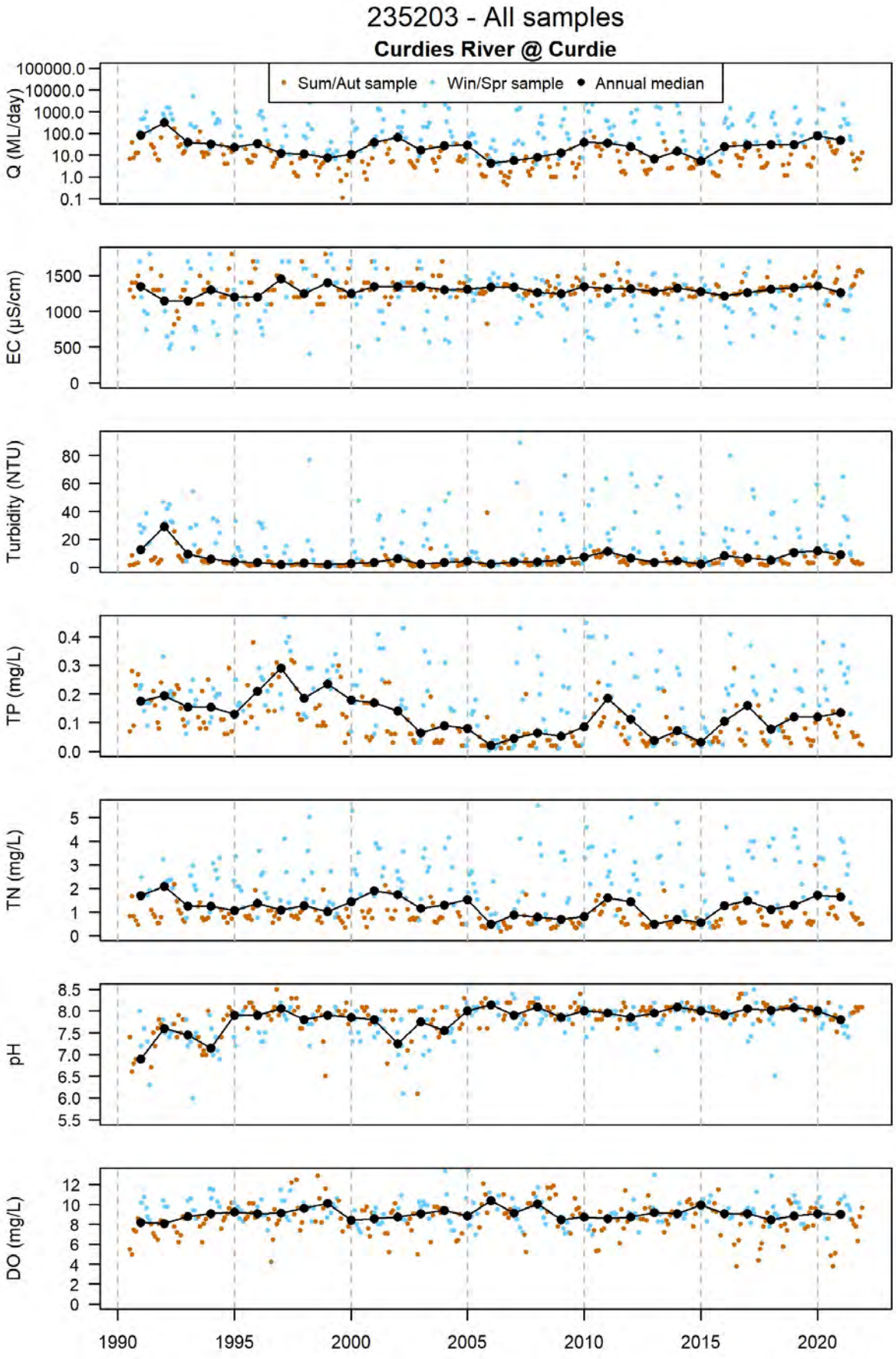

235205 - ERS attainment
Arkins Creek West Branch @ Wyelangta
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

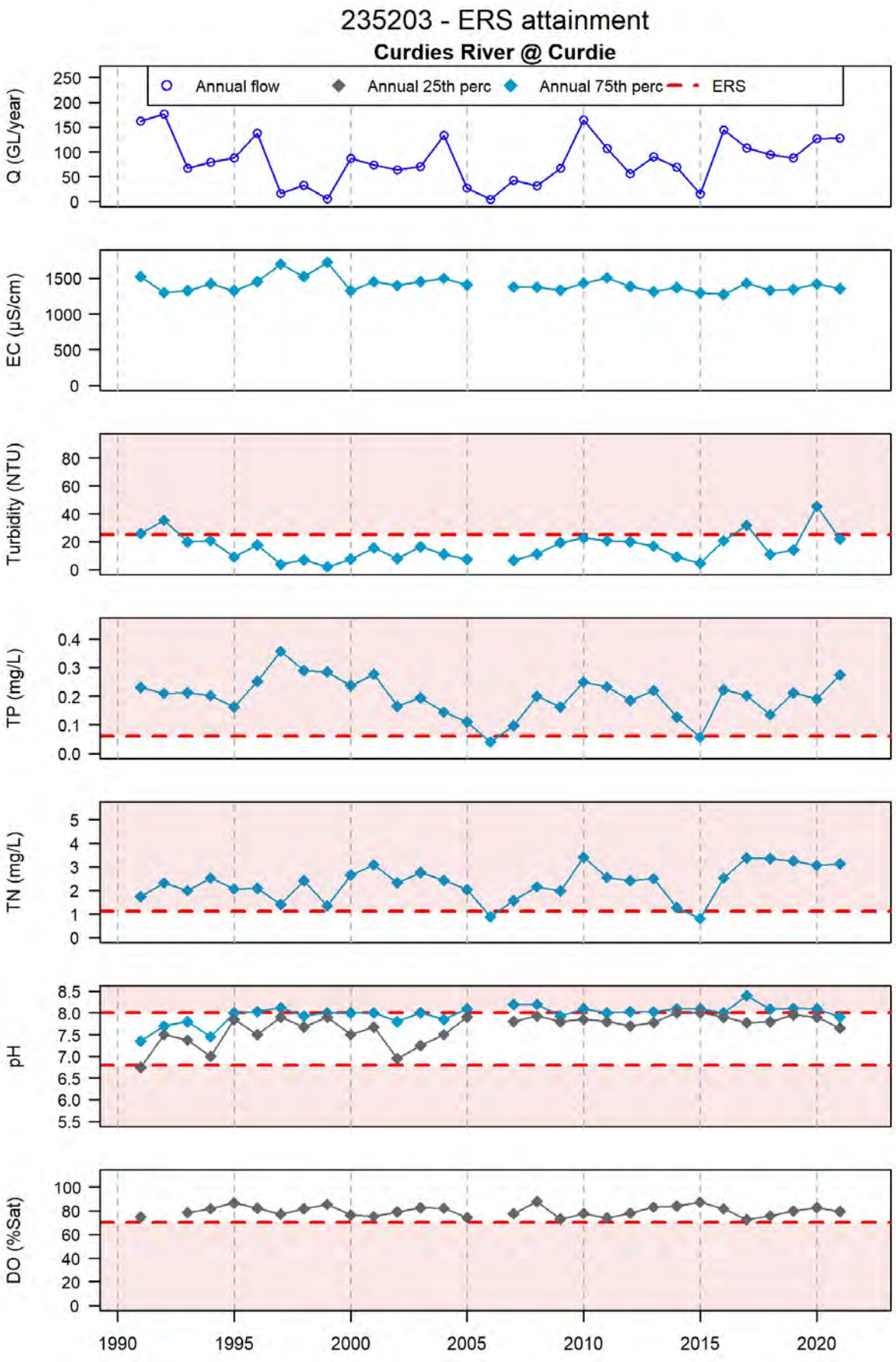

235211 - All samples
Kennedys Creek @ Kennedys Creek
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020


235211 - ERS attainment
Kennedys Creek @ Kennedys Creek
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

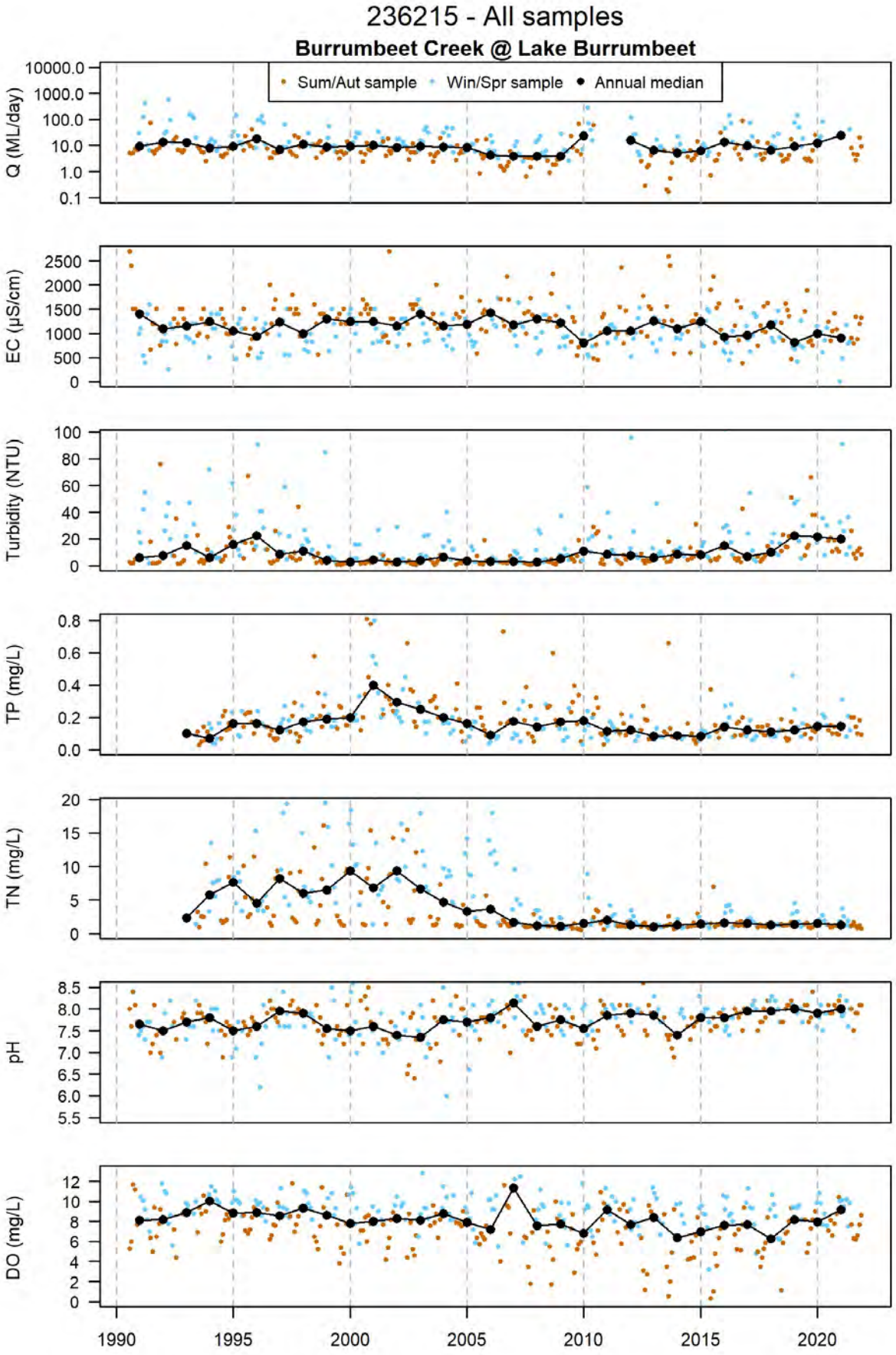

235237 - All samples
Scotts Creek @ Curdie (Digneys Bridge)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

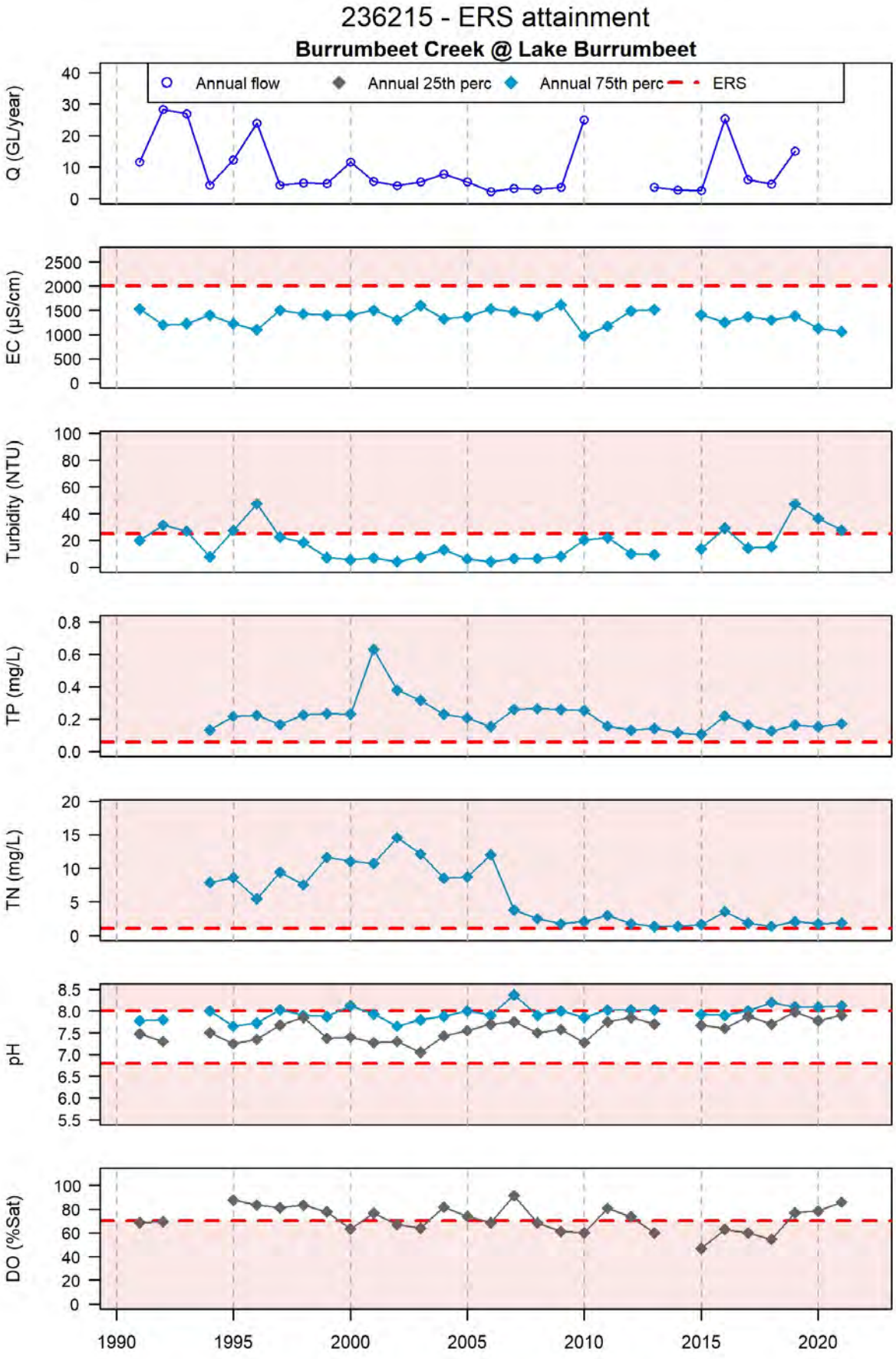

235237 - ERS attainment
Scotts Creek @ Curdie (Digneys Bridge)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

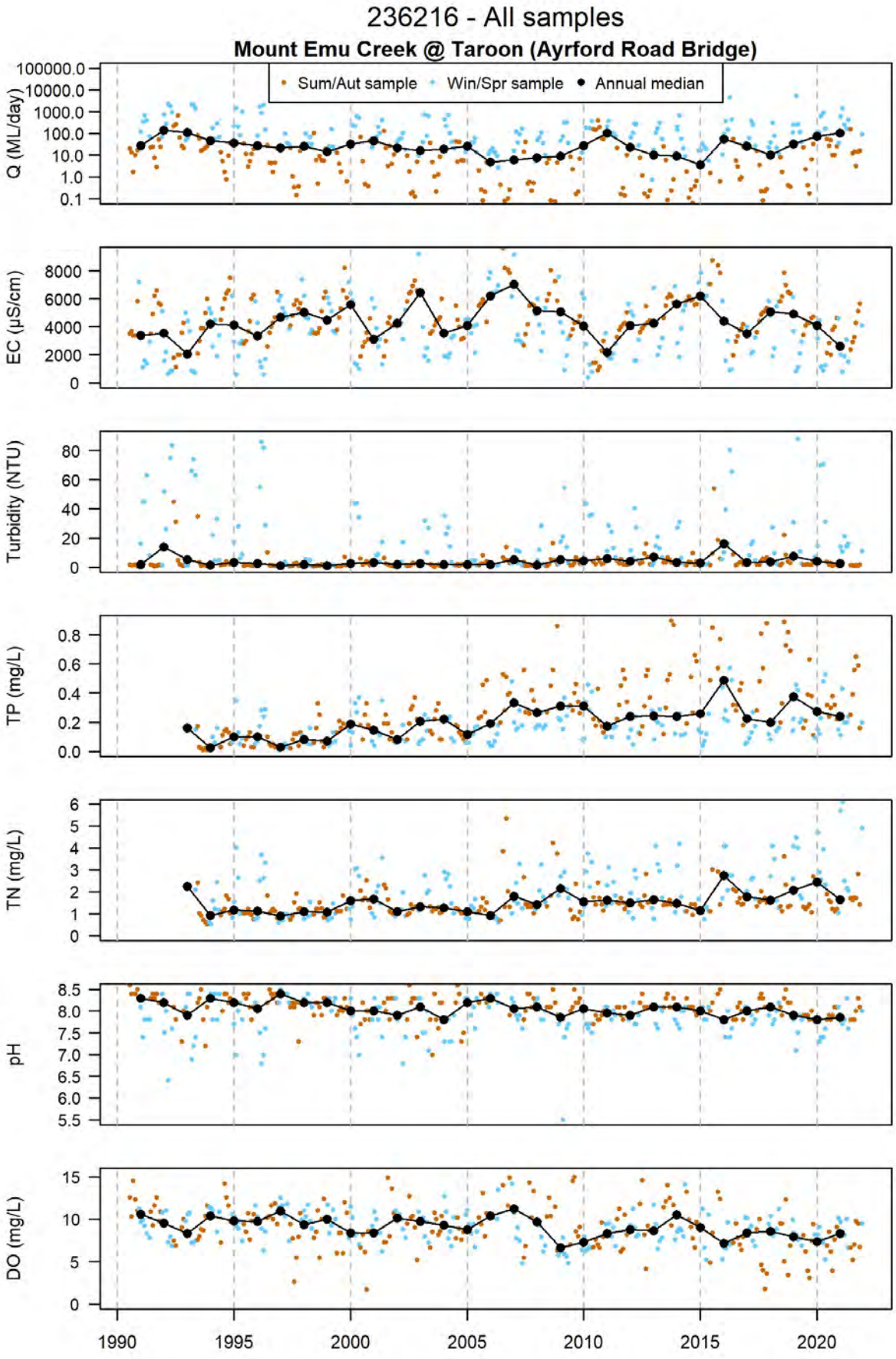

235203 - All samples
Curdies River @ Curdie
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

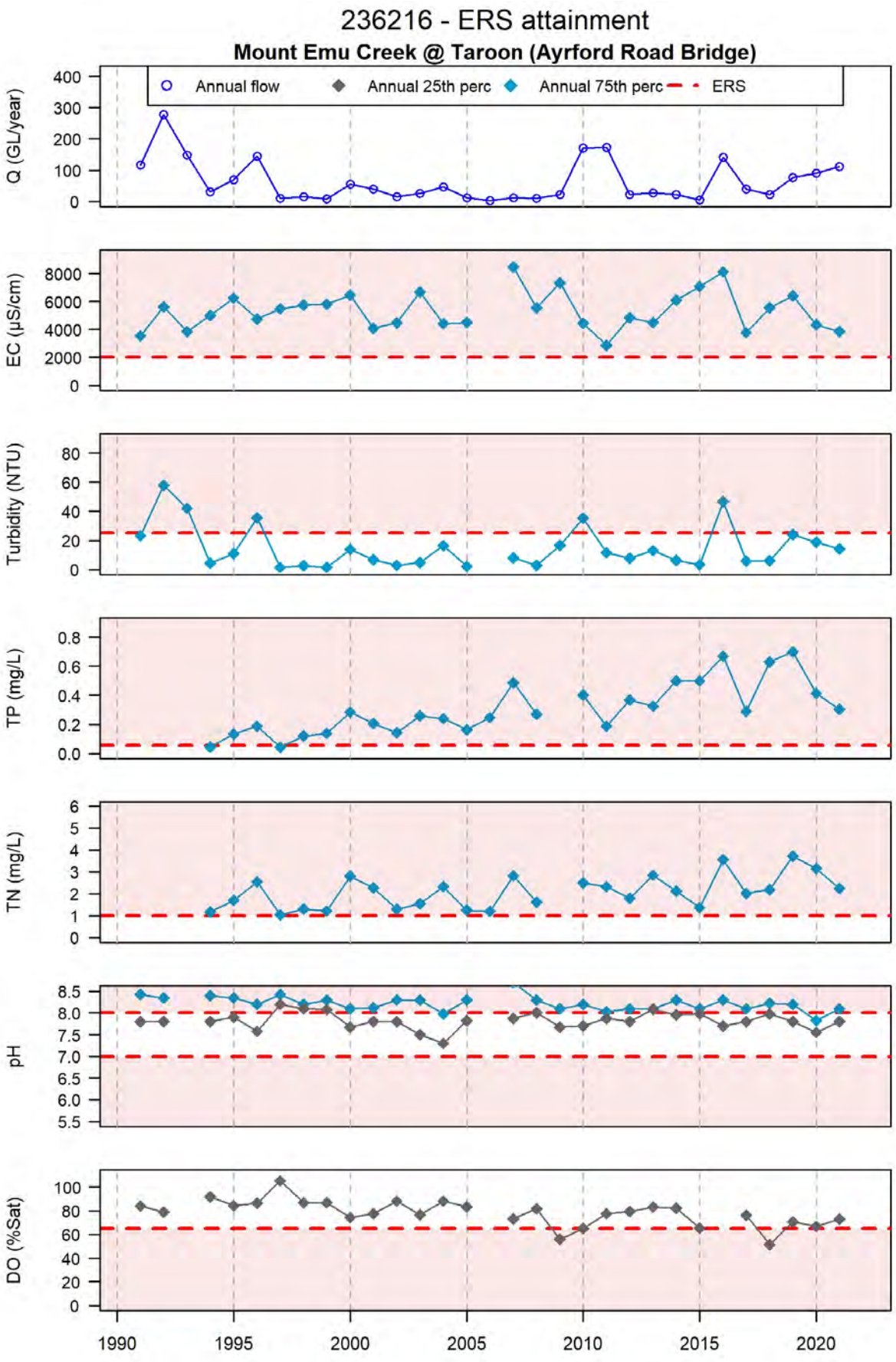

235203 - ERS attainment
Curdies River @ Curdie
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

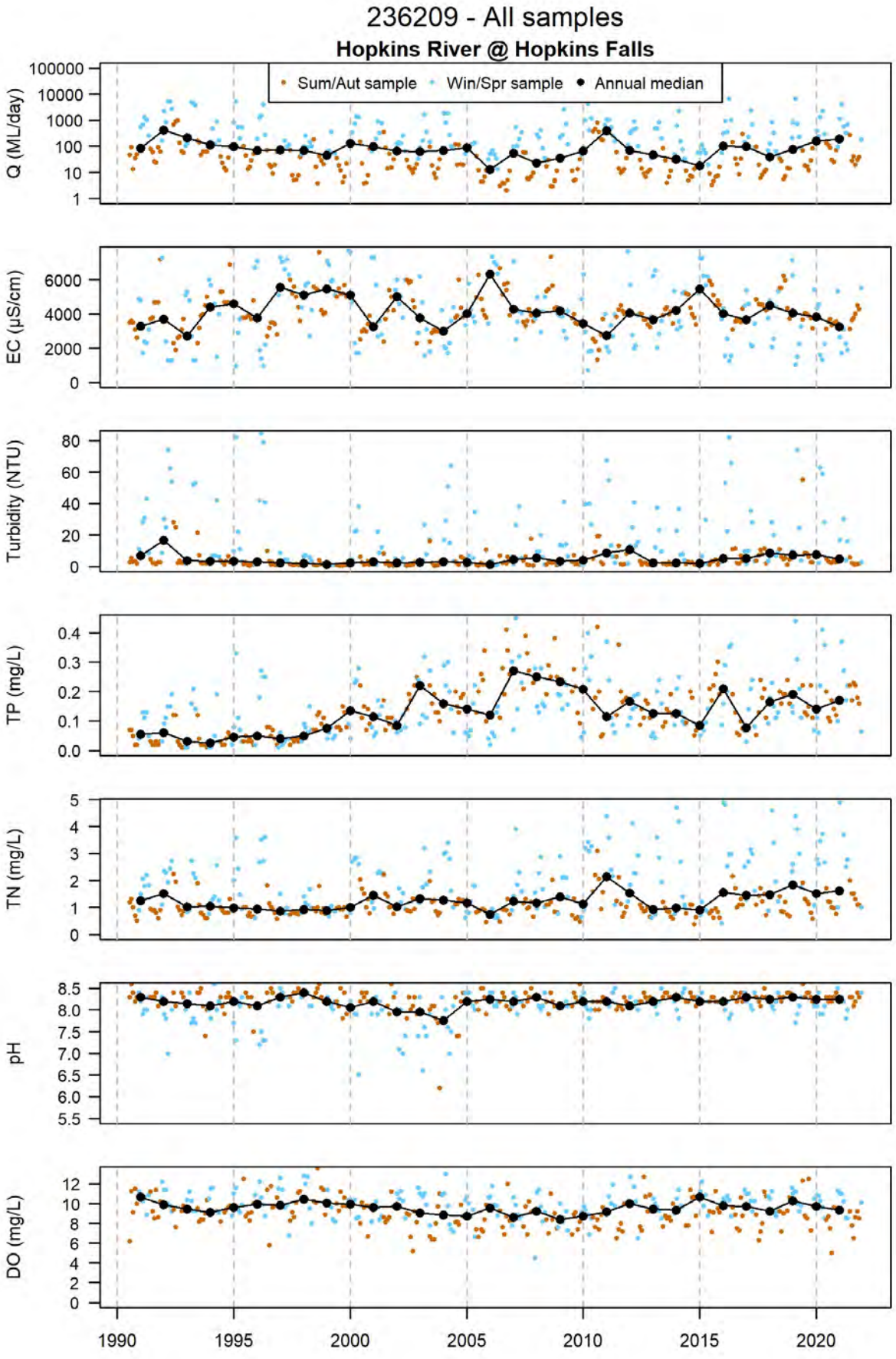
Hopkins Basin

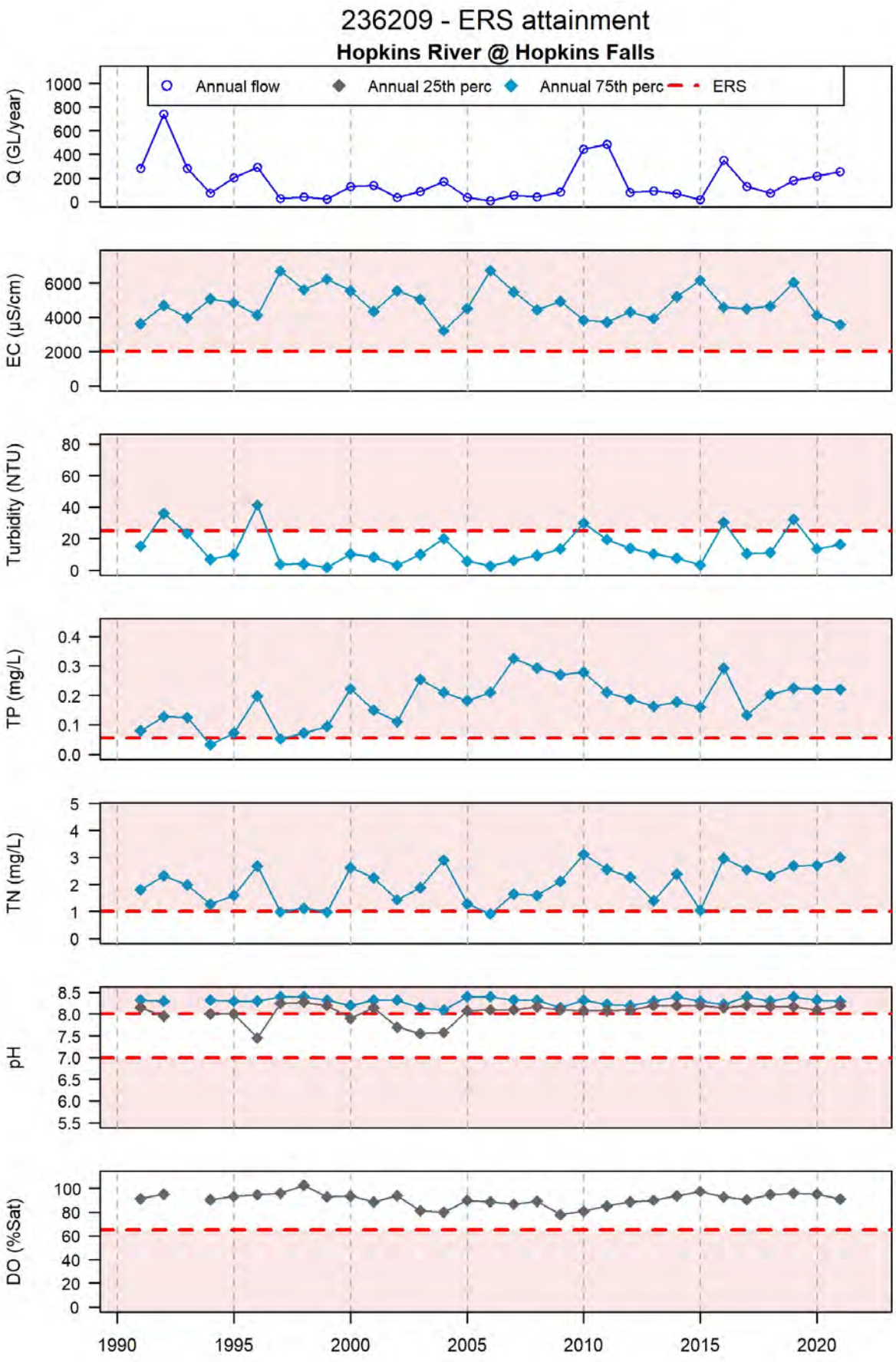



236215 - ERS attainment
Burrumbeet Creek @ Lake Burrumbeet
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

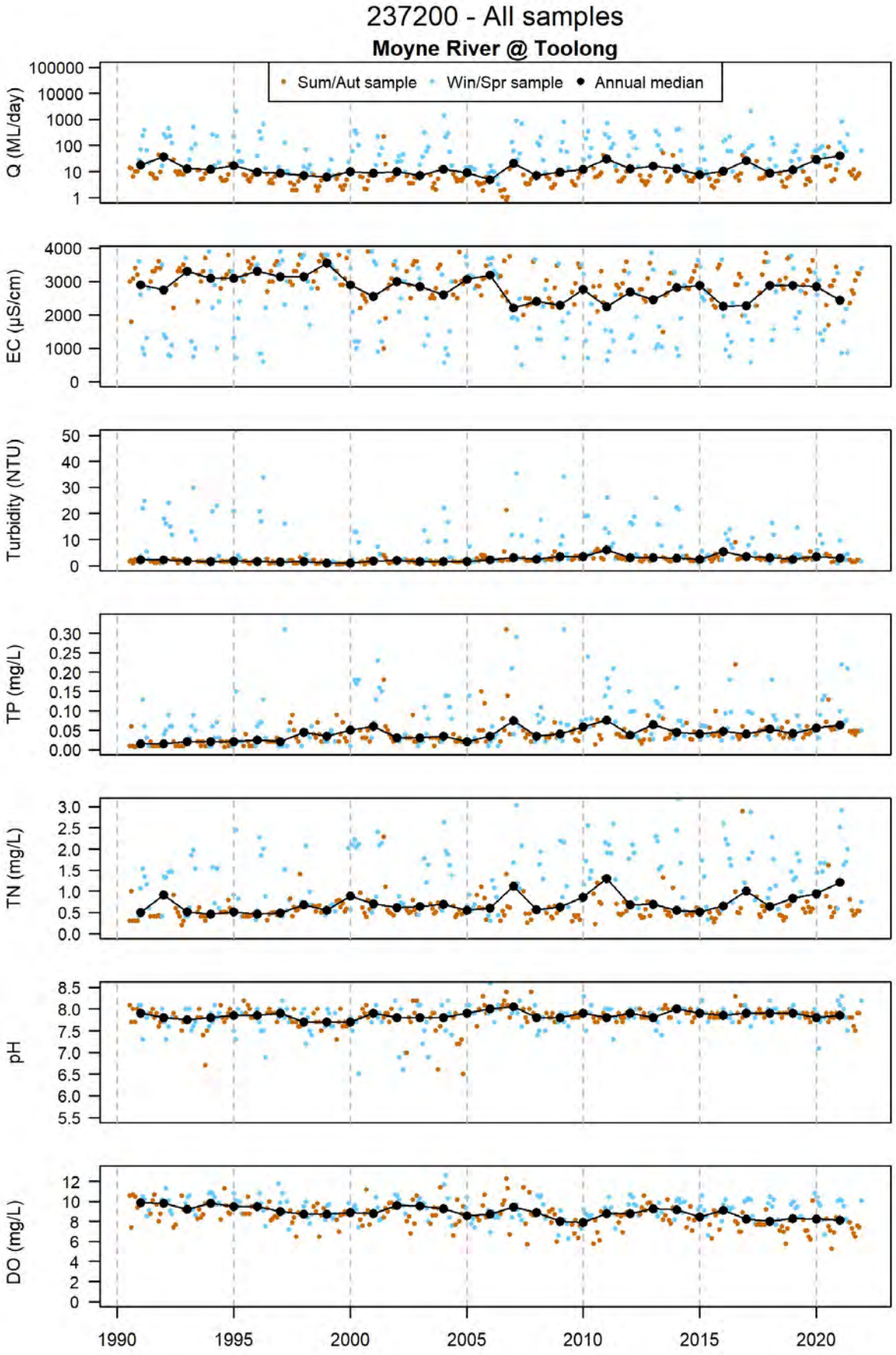

236216 - All samples
Mount Emu Creek @ Taroon (Ayrford Road Bridge)
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

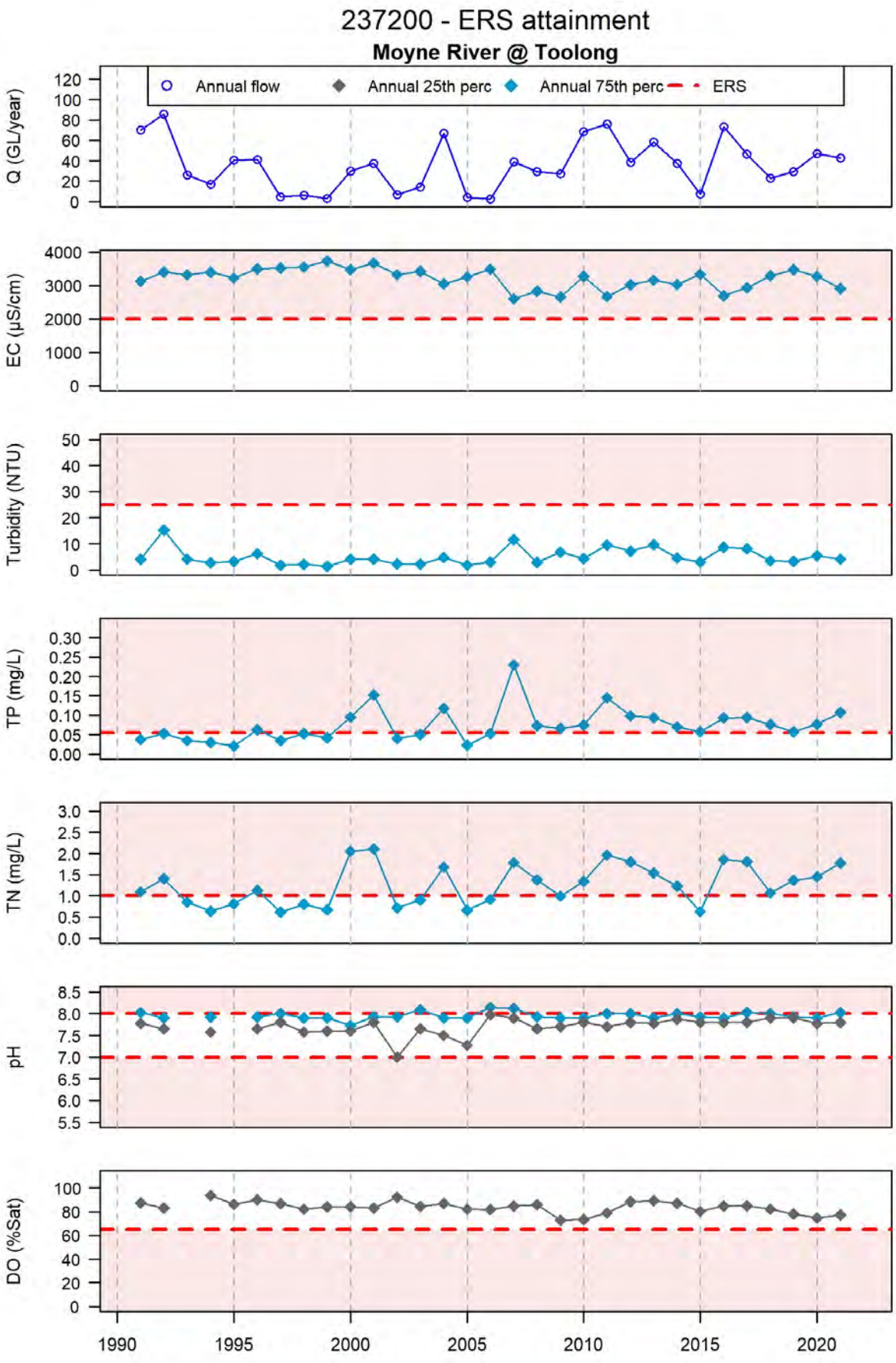

236216 - ERS attainment
Mount Emu Creek @ Taroon (Ayrford Road Bridge)
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

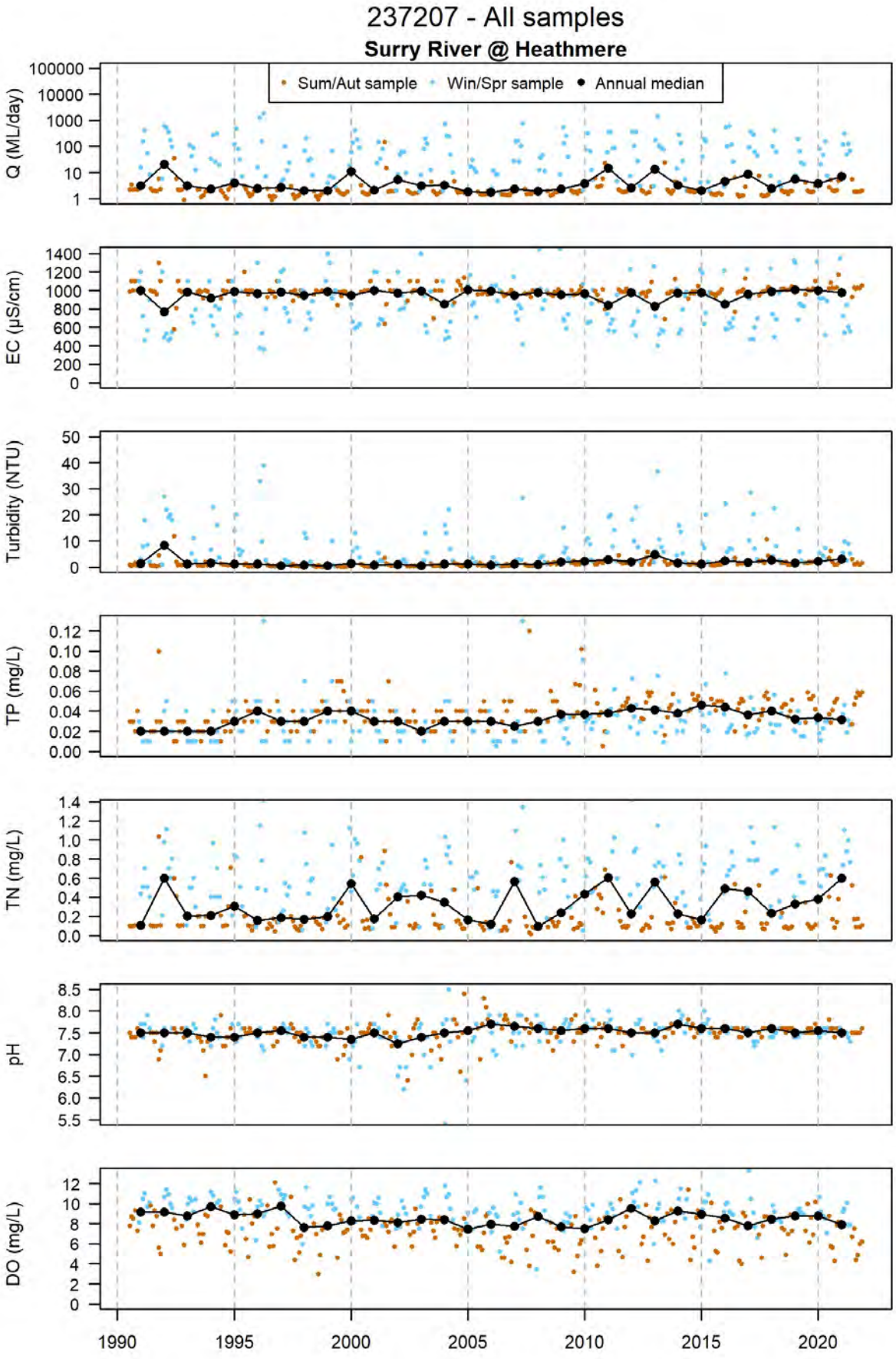

236209 - All samples
Hopkins River @ Hopkins Falls
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

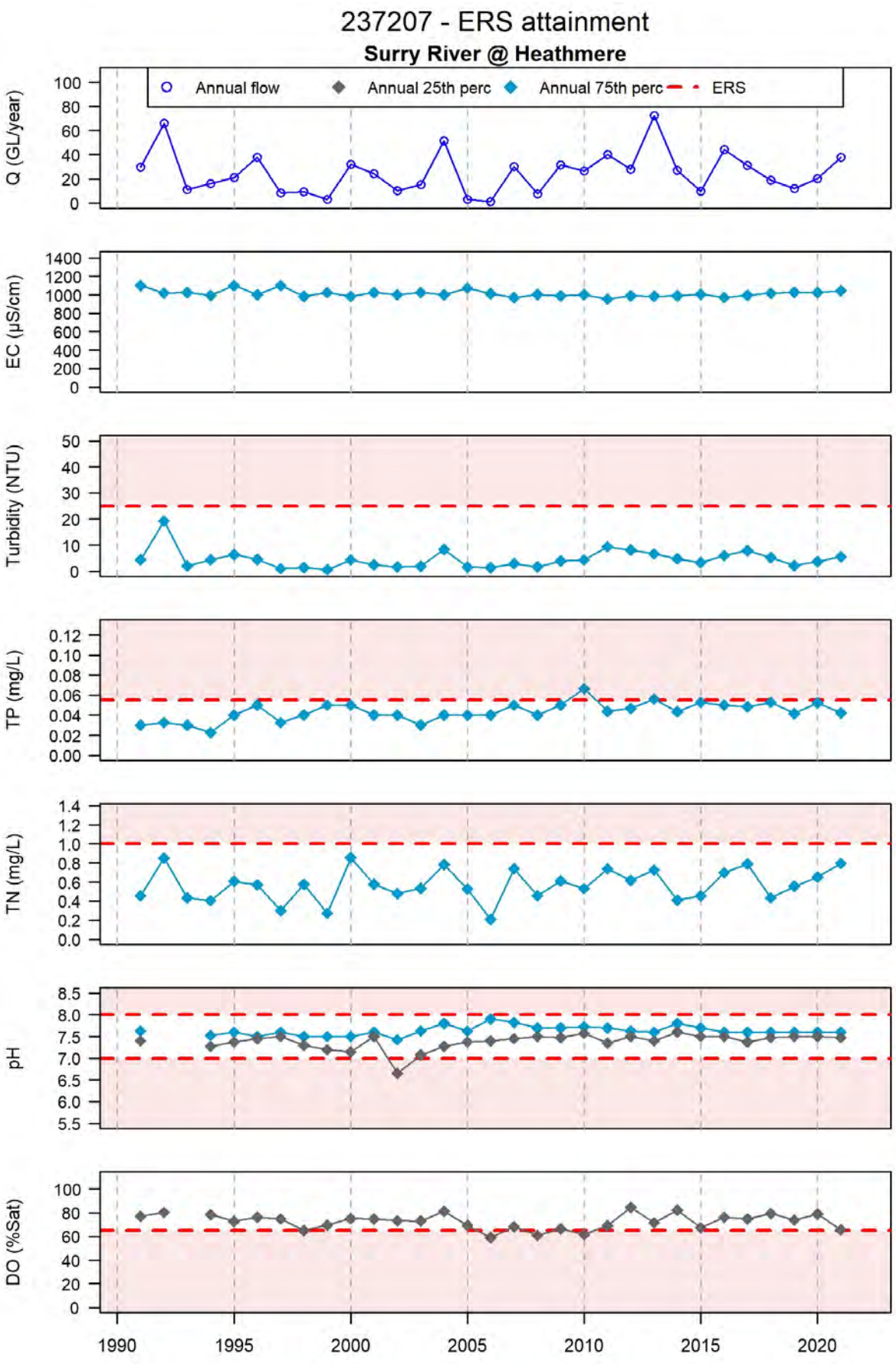

236209 - ERS attainment
Hopkins River @ Hopkins Falls
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

Portland Coast Basin

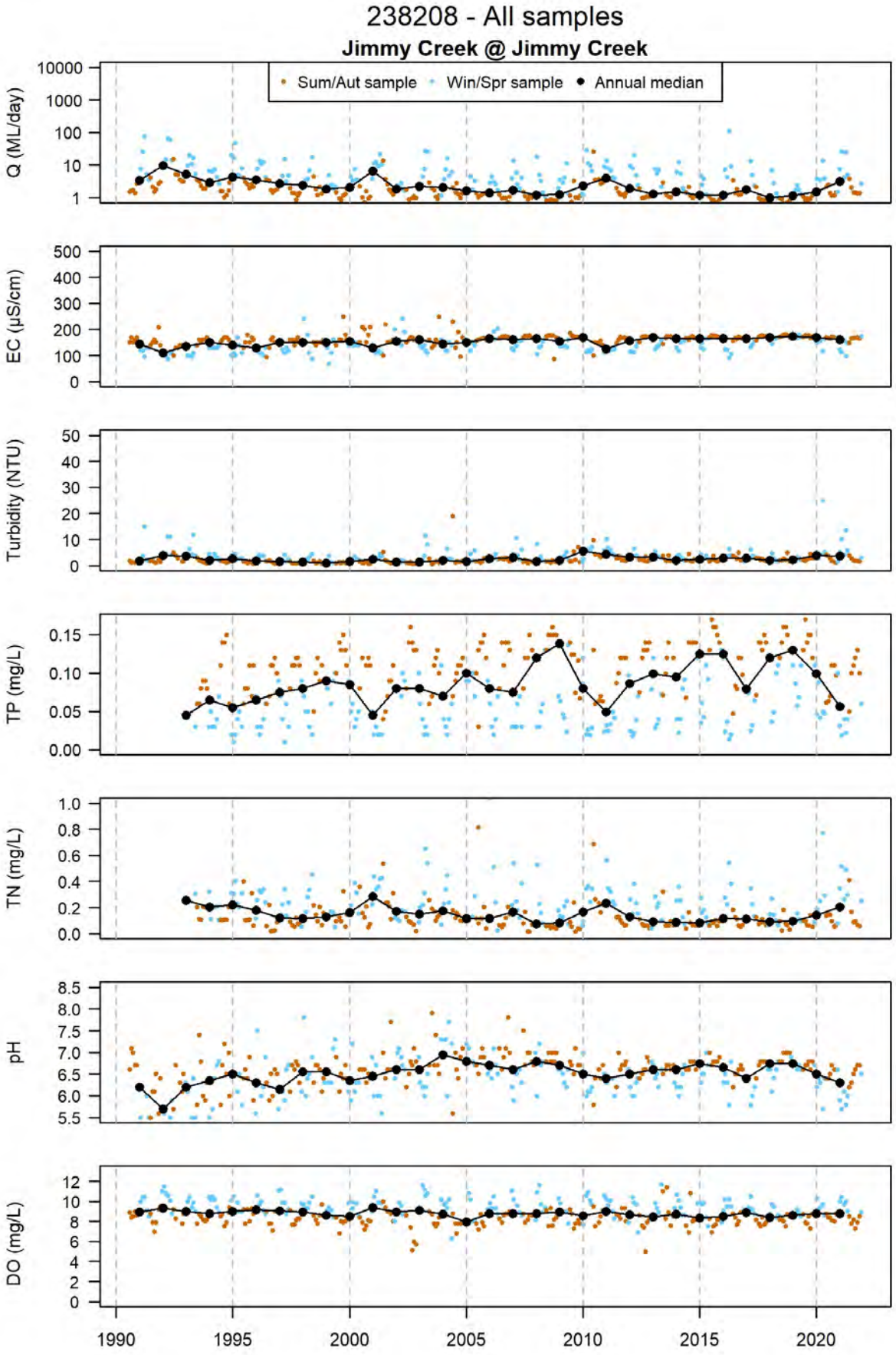


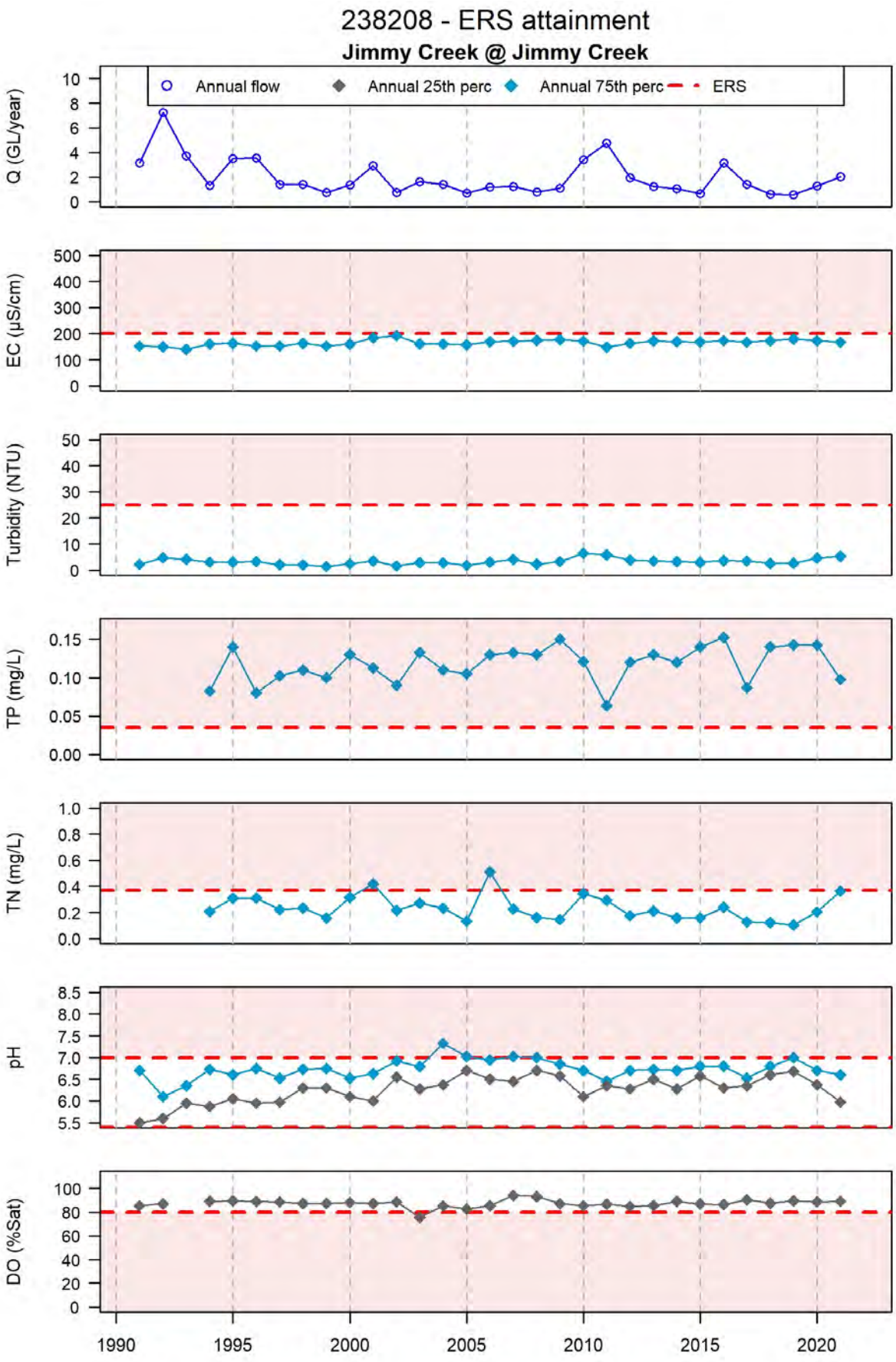

237200 - ERS attainment
Moyne River @ Toolong
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

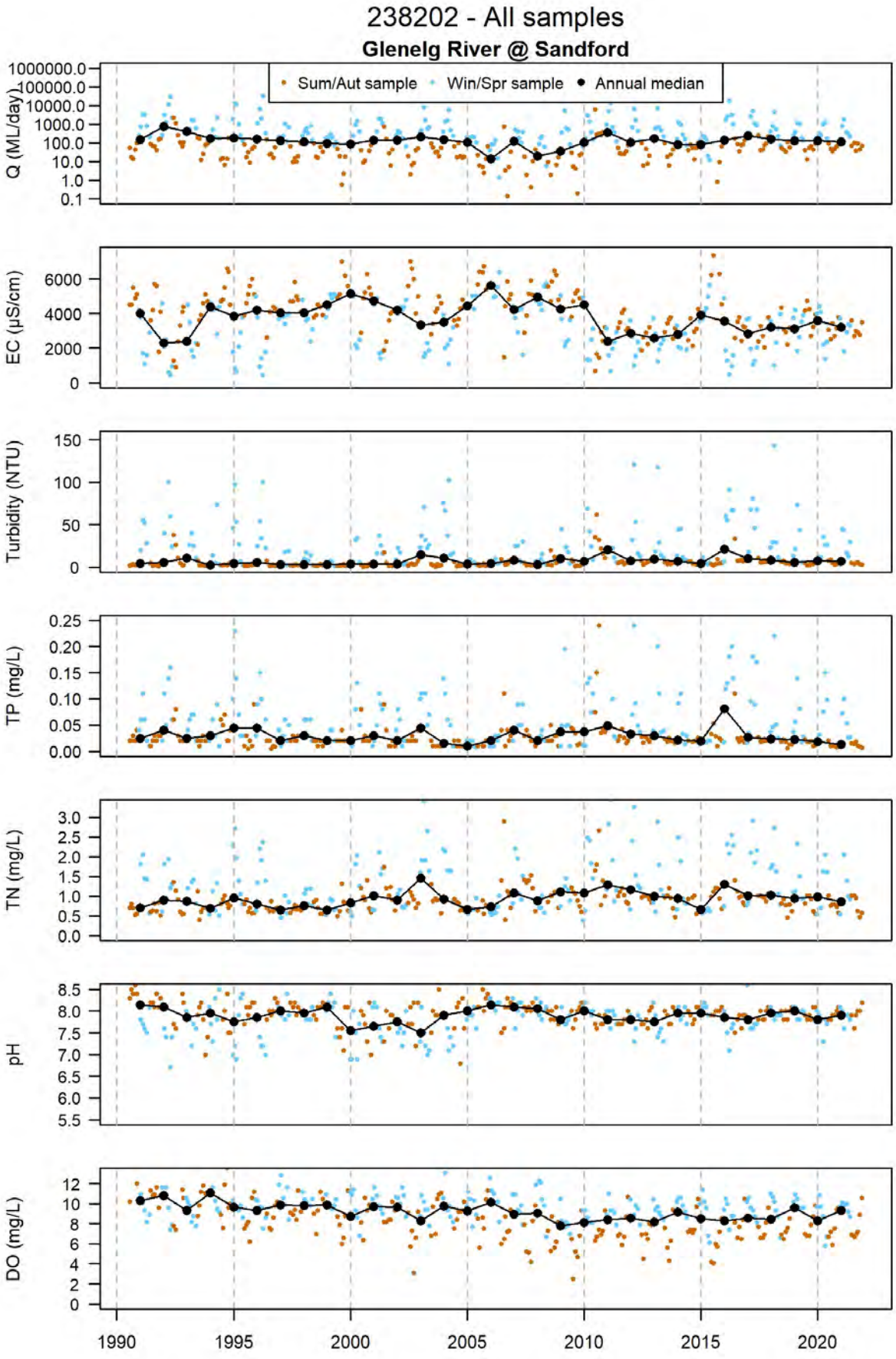

237207 - All samples
Surry River @ Heathmere
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

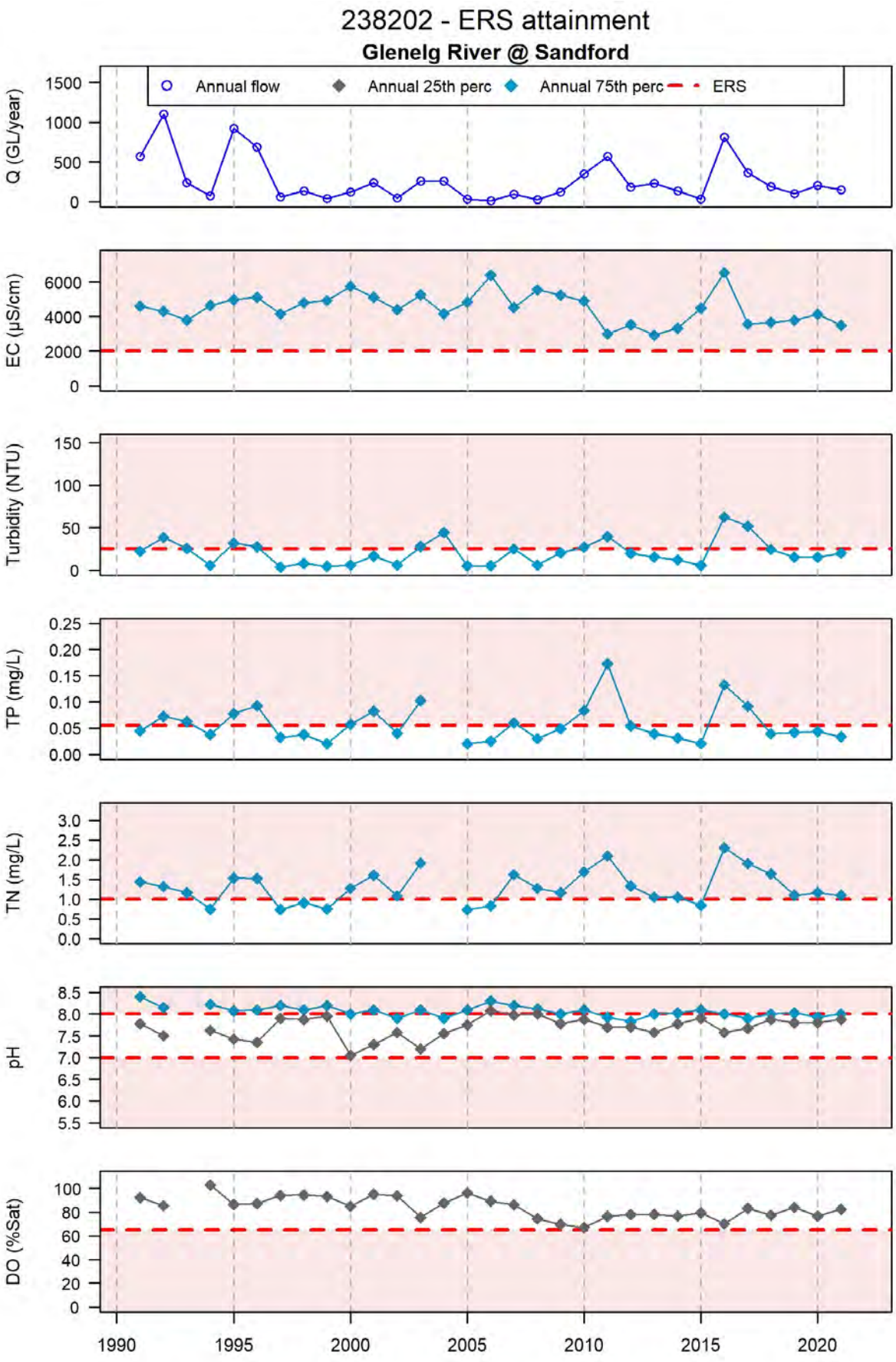

237207 - ERS attainment
Surry River @ Heathmere
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

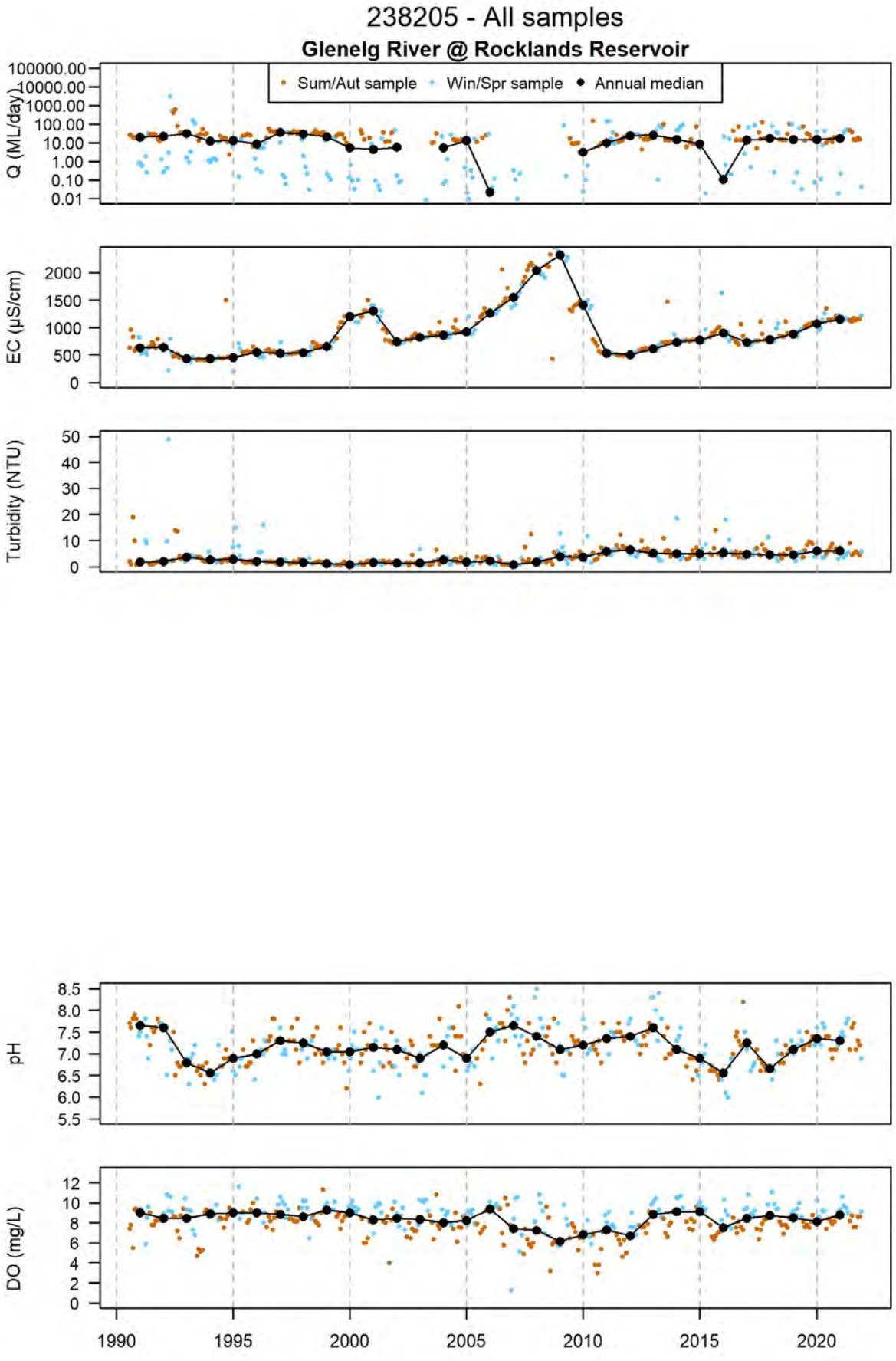
Glenelg Basin

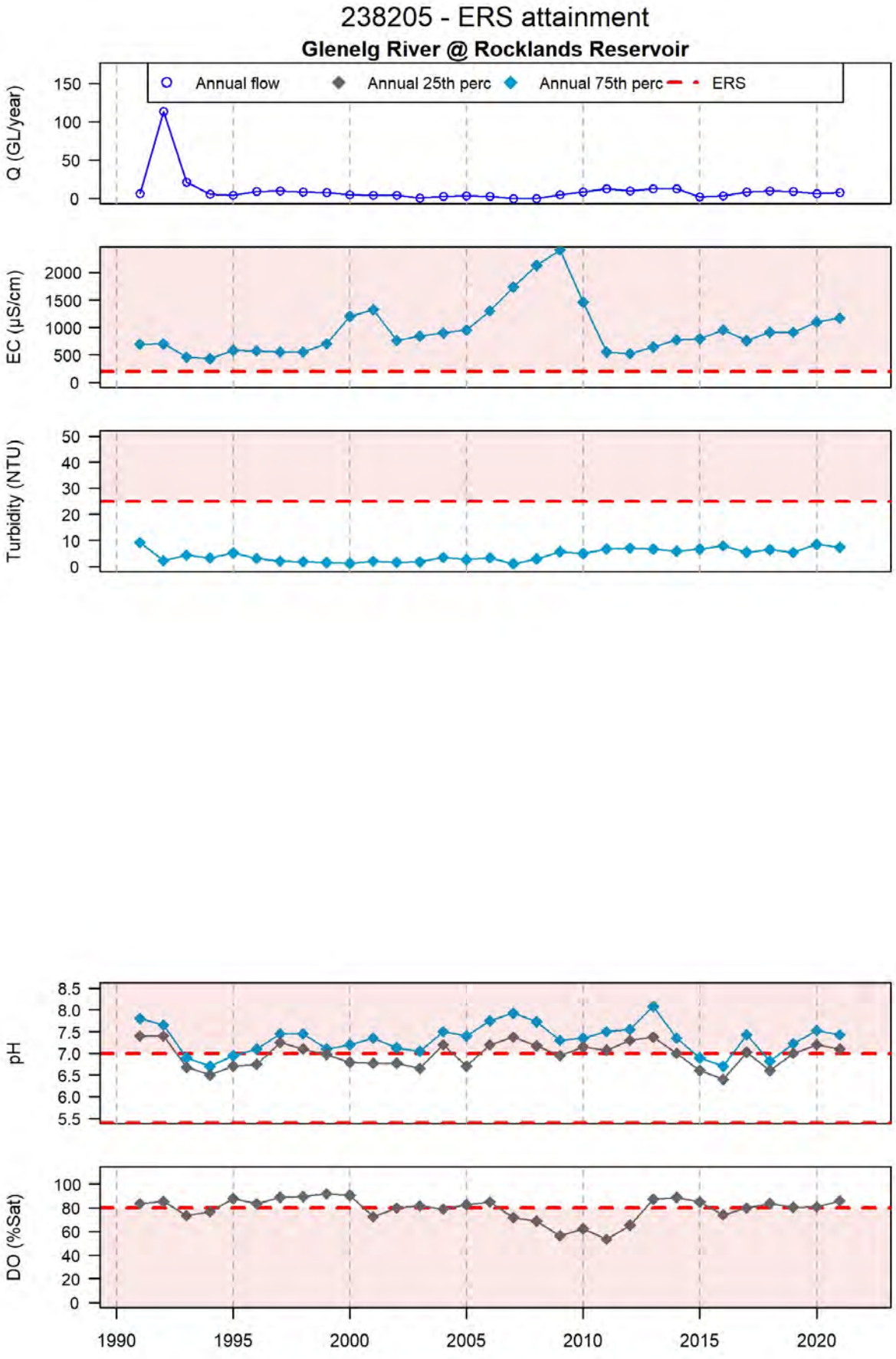


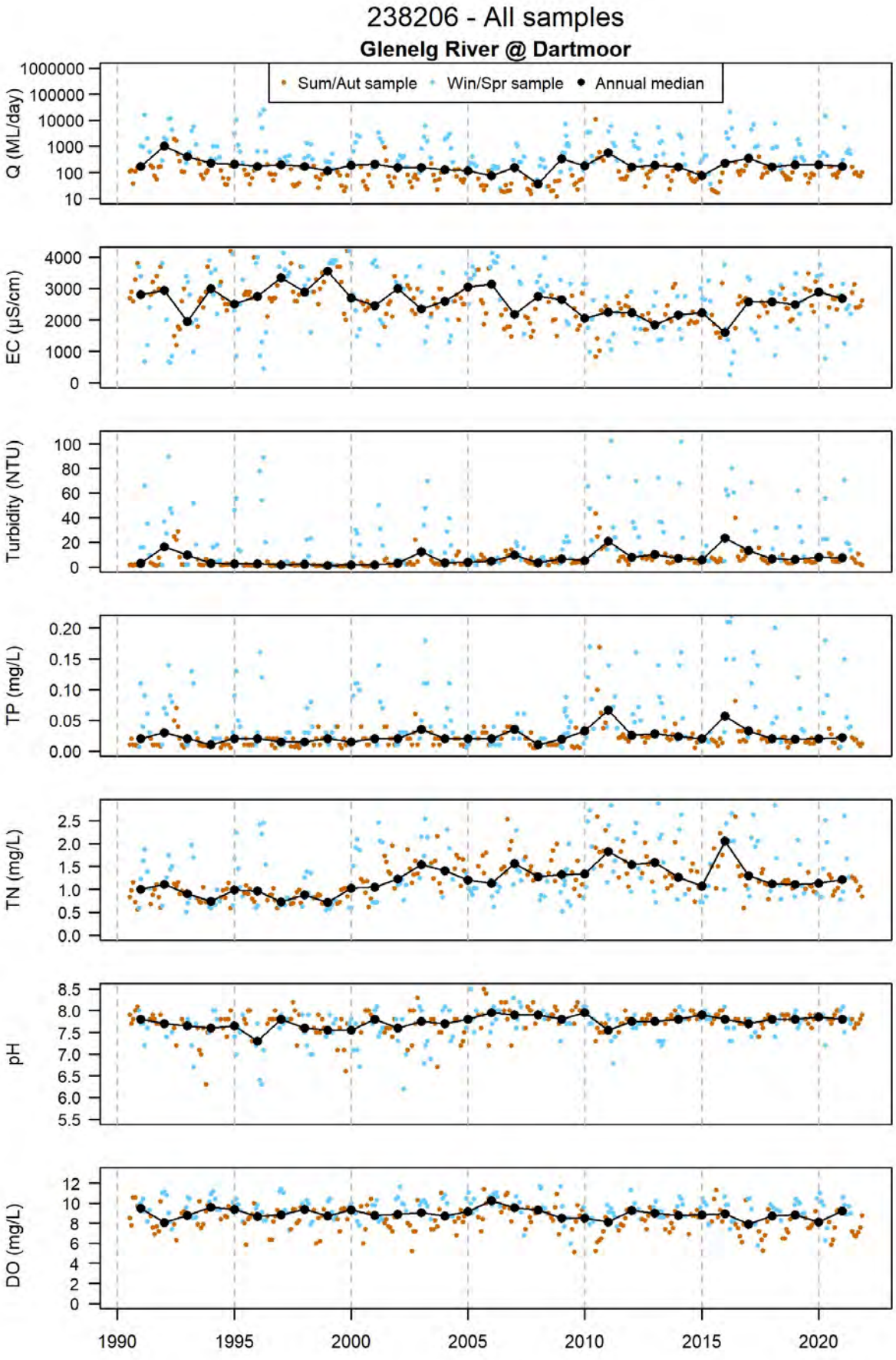

238208 - ERS attainment
Jimmy Creek @ Jimmy Creek
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

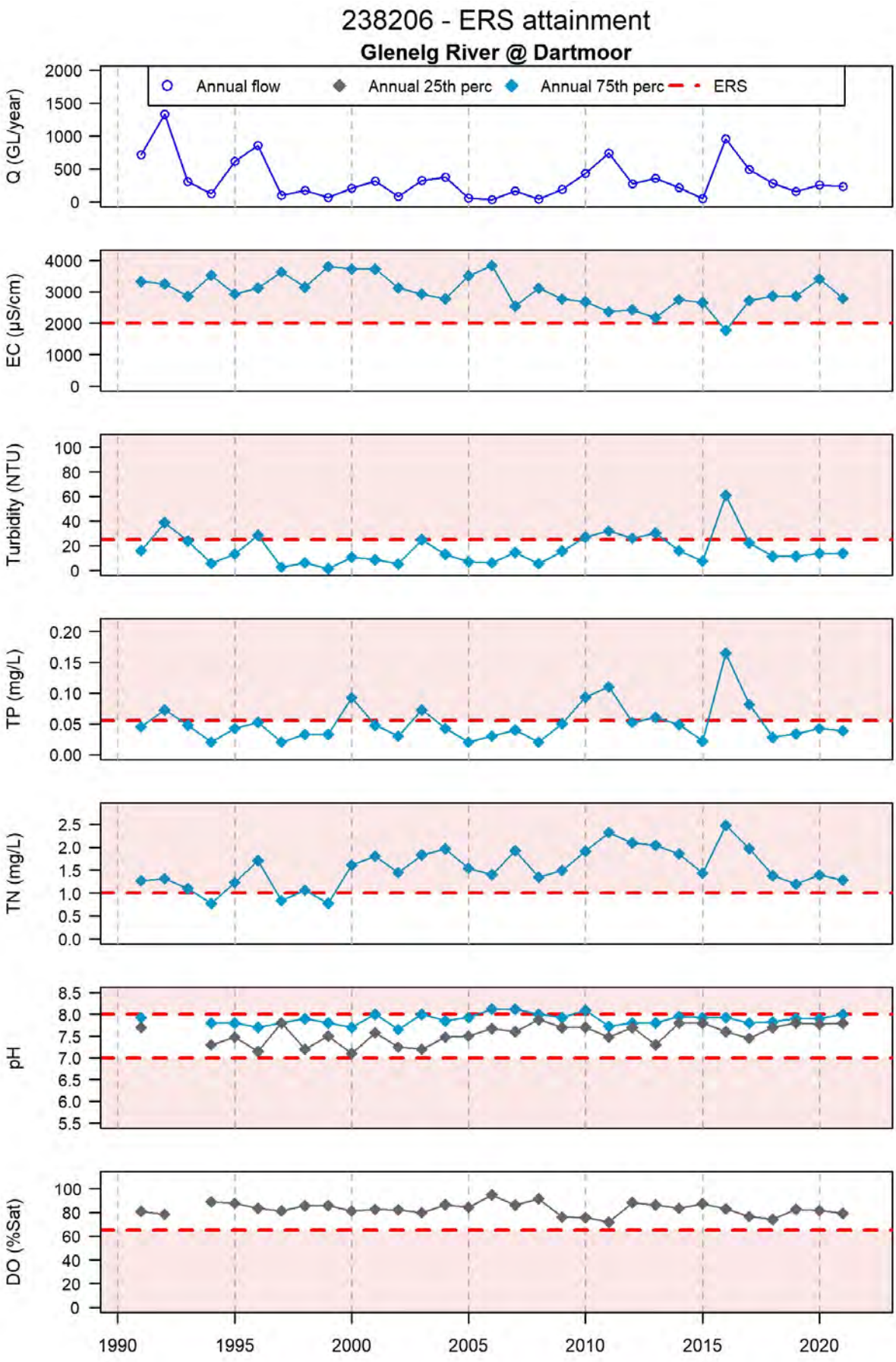

238202 - All samples
Glenelg River @ Sandford
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

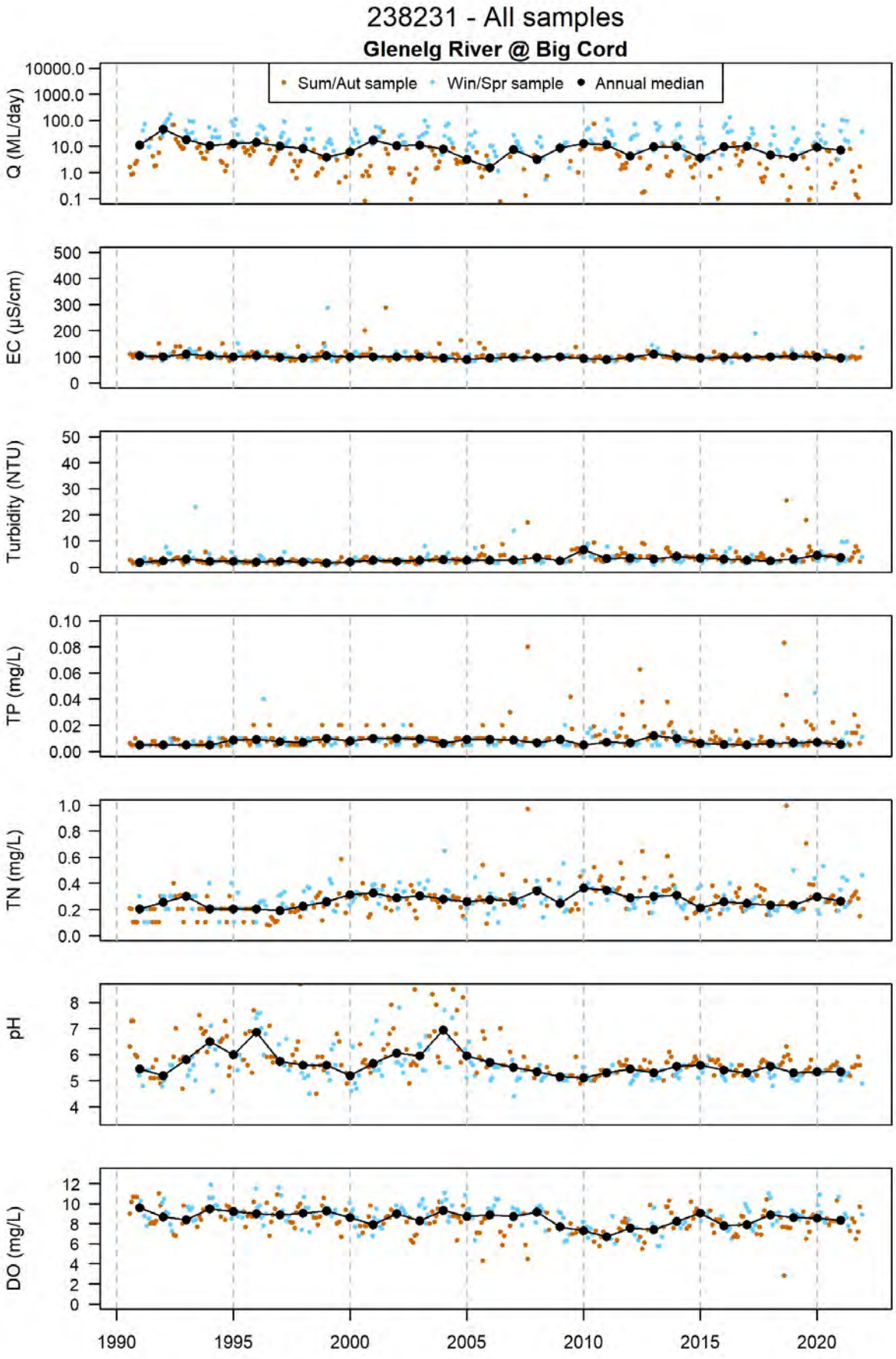

238202 - ERS attainment
Glenelg River @ Sandford
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

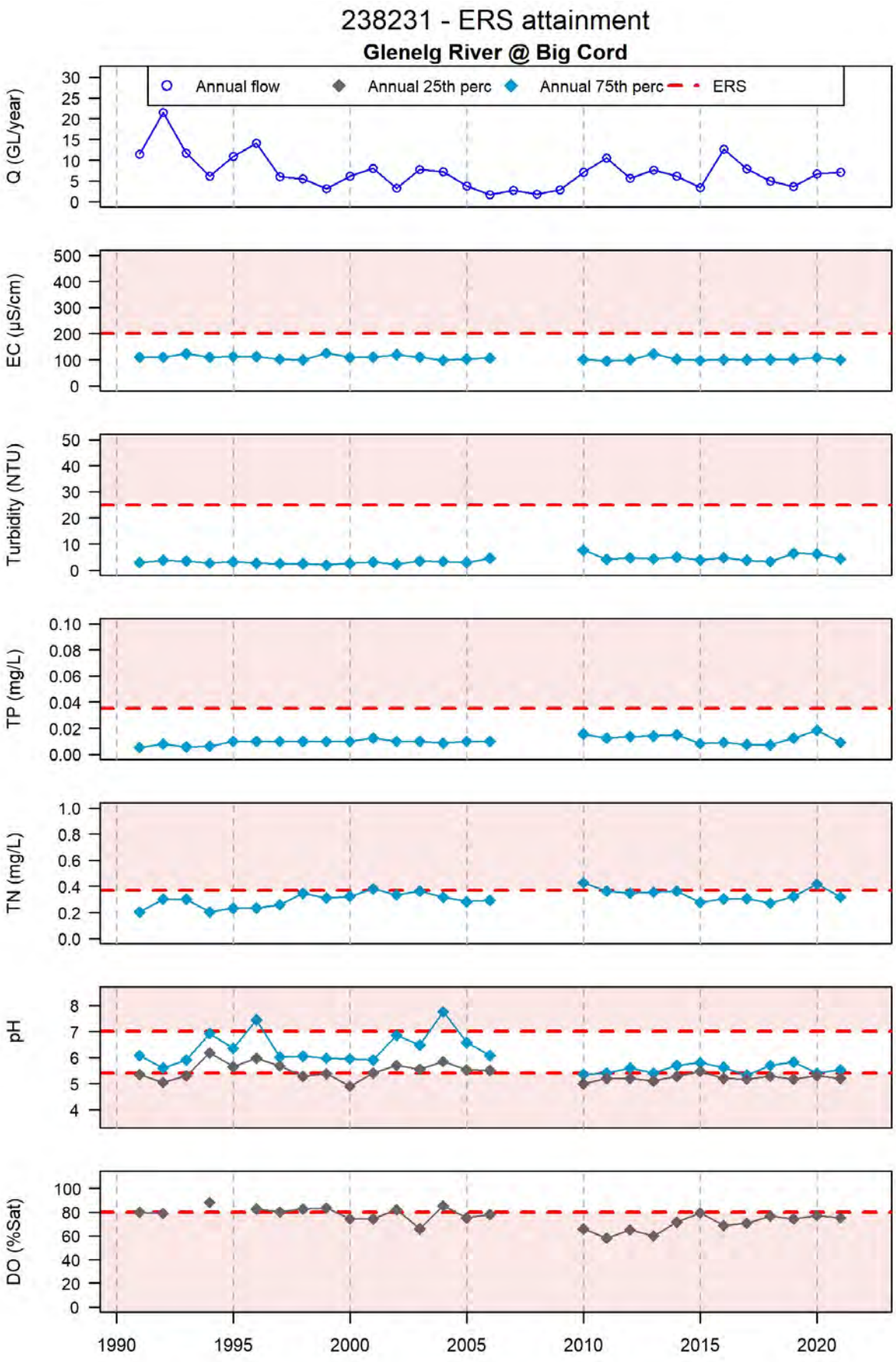

238205 - All samples
Glenelg River @ Rocklands Reservoir
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
100000.00
10000.00
1000.00
100.00
10.00
1.00
0.10
0.01
EC (µS/cm)
2000
1500
1000
500
0
Turbidity (NTU)
50
40
30
20
10
0
pH
8.5
8.0
7.5
7.0
6.5
6.0
5.5
DO (mg/L)
12
10
8
6
4
2
0
1990
1995
2000
2005
2010
2015
2020

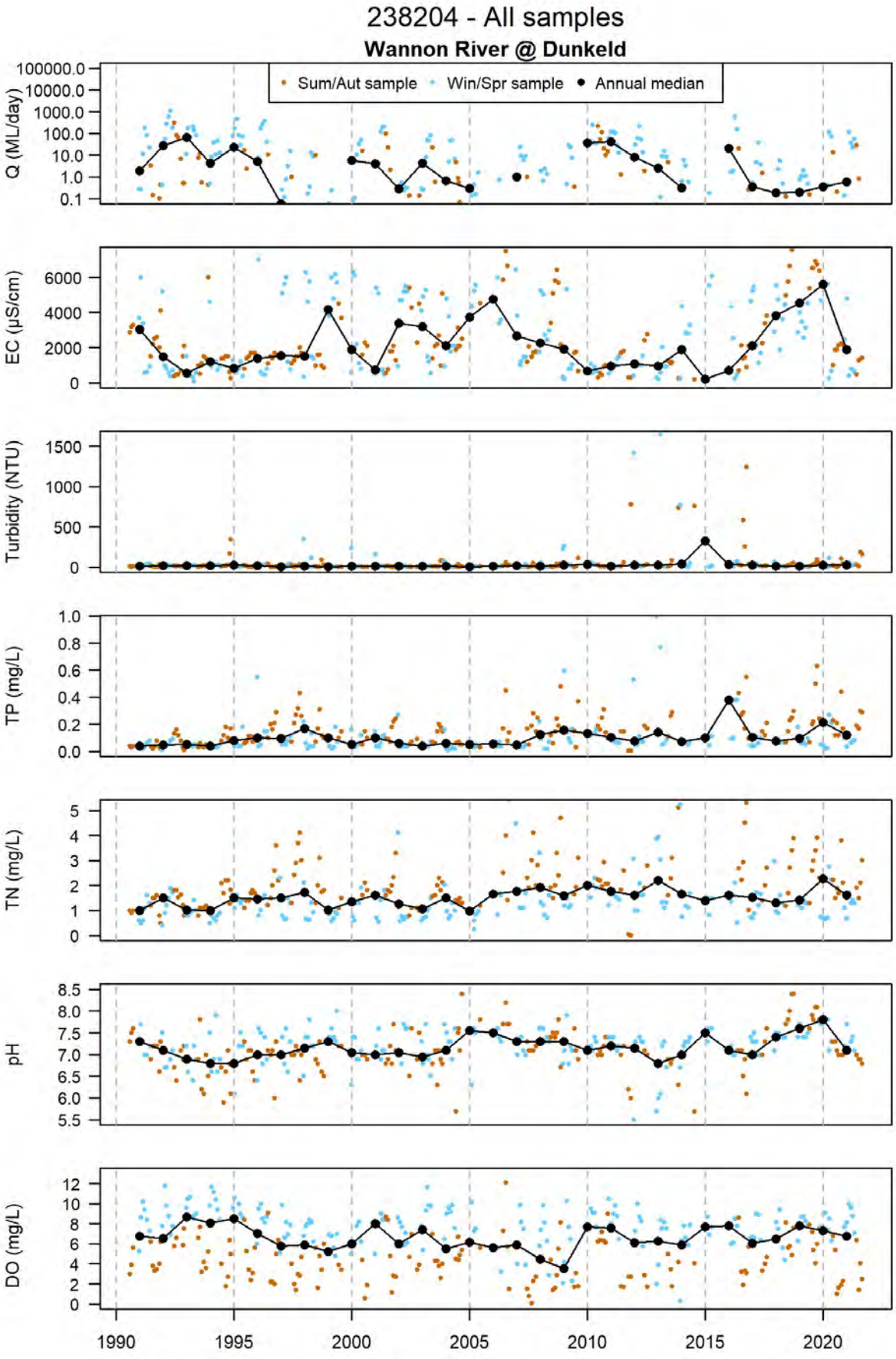

238205 - ERS attainment
Glenelg River @ Rocklands Reservoir
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

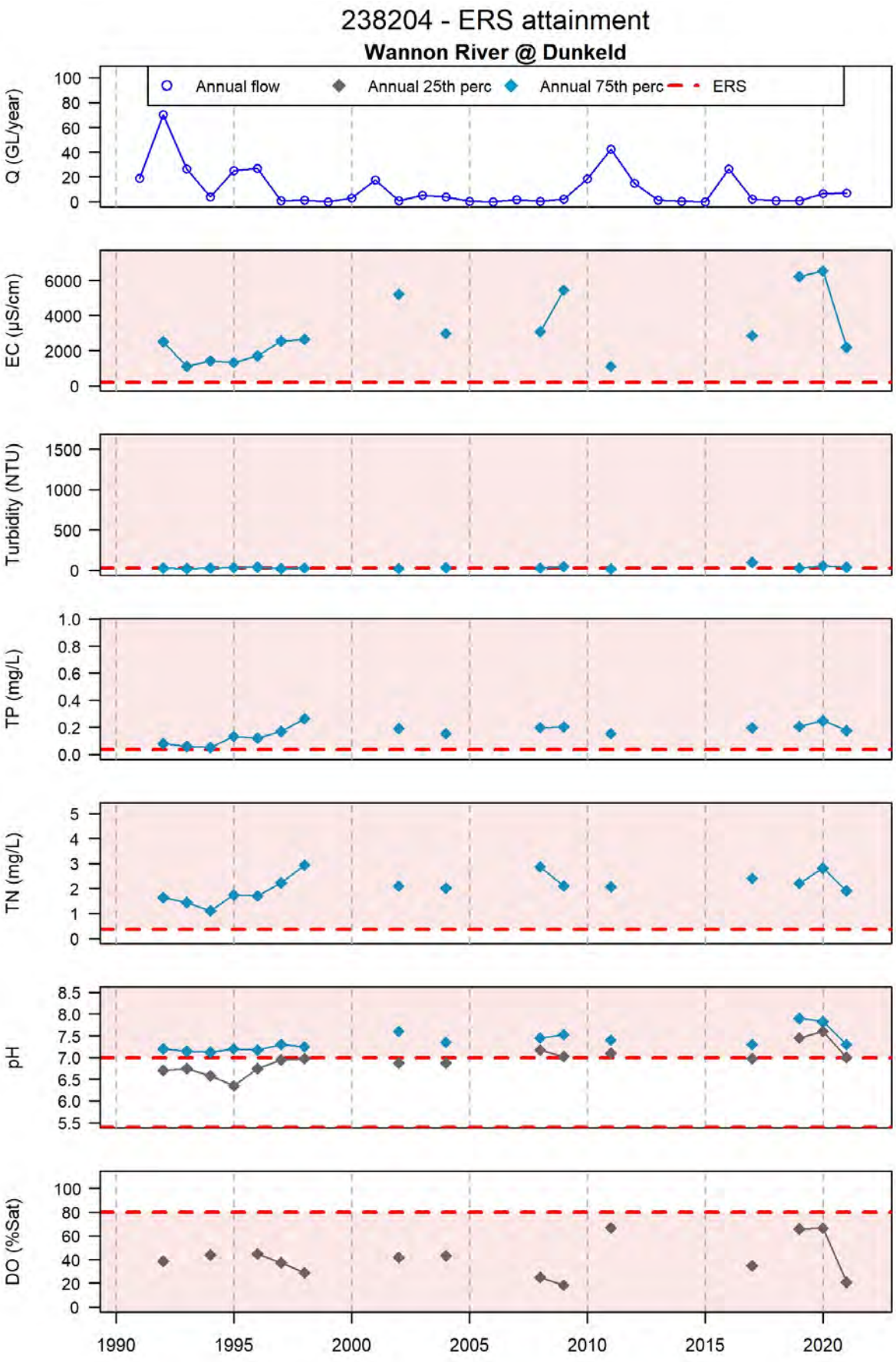

238206 - All samples
Glenelg River @ Dartmoor
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

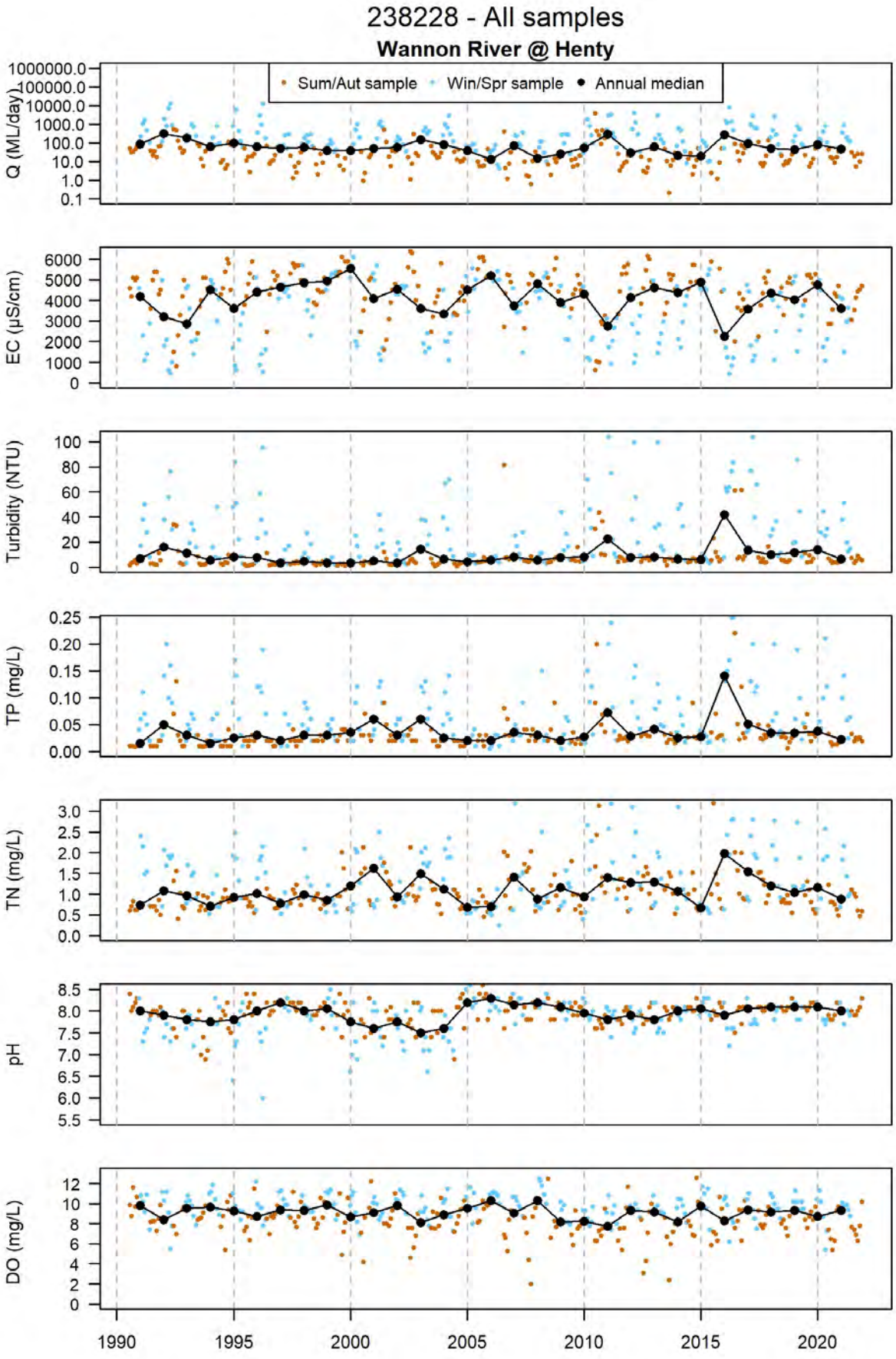

238206 - ERS attainment
Glenelg River @ Dartmoor
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

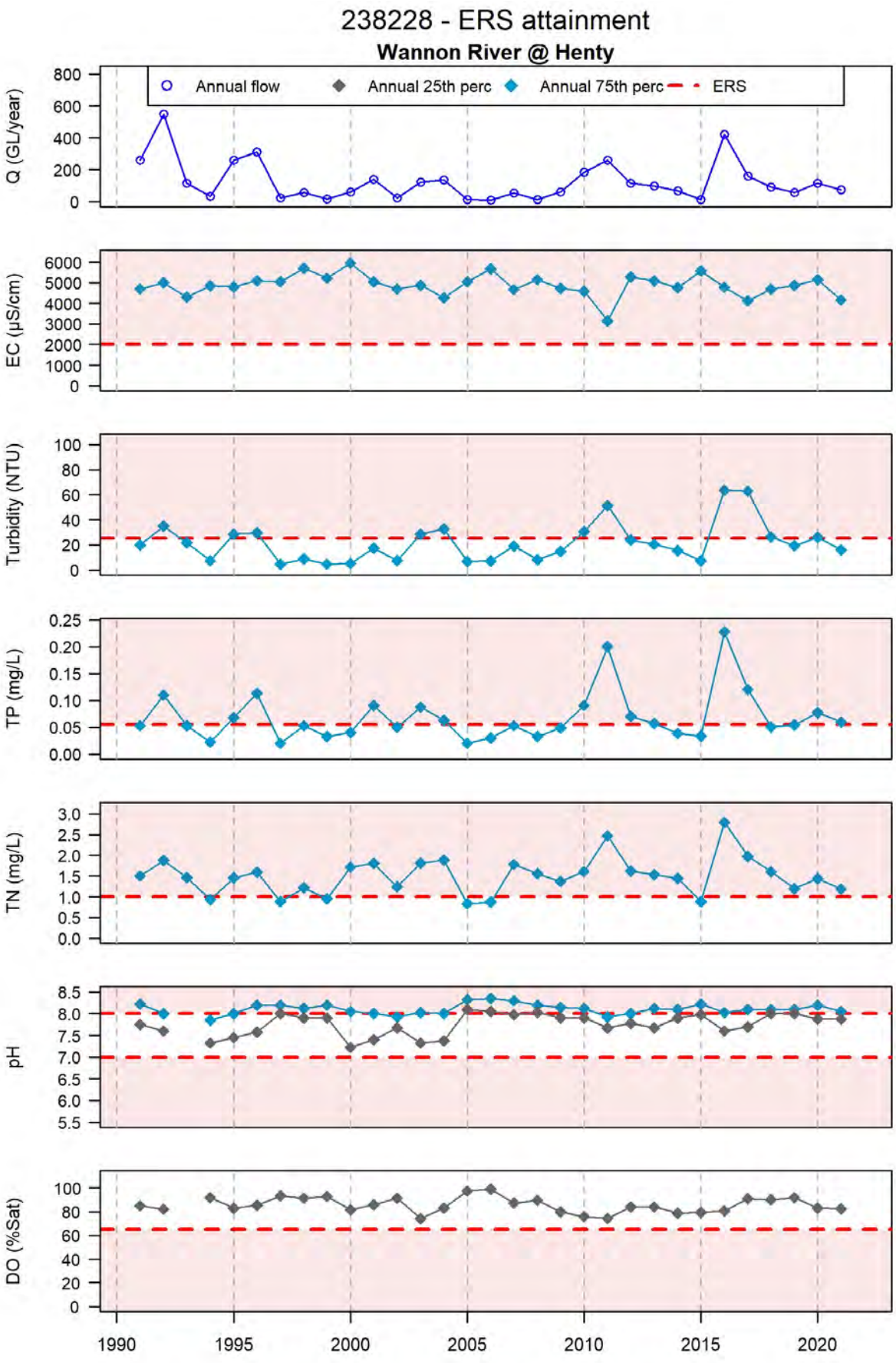

238231 - All samples
Glenelg River @ Big Cord
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020

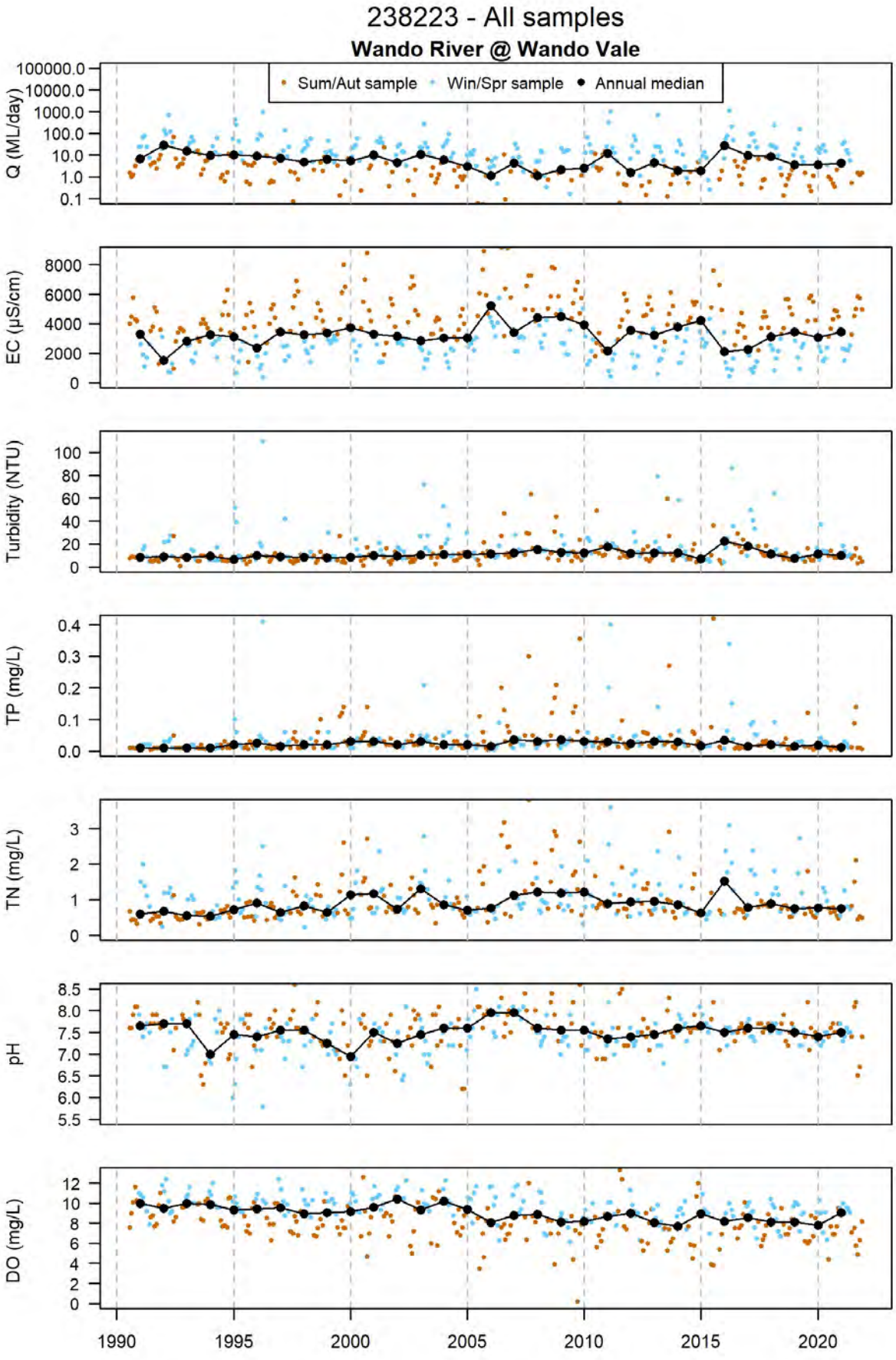

238231 - ERS attainment
Glenelg River @ Big Cord
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020

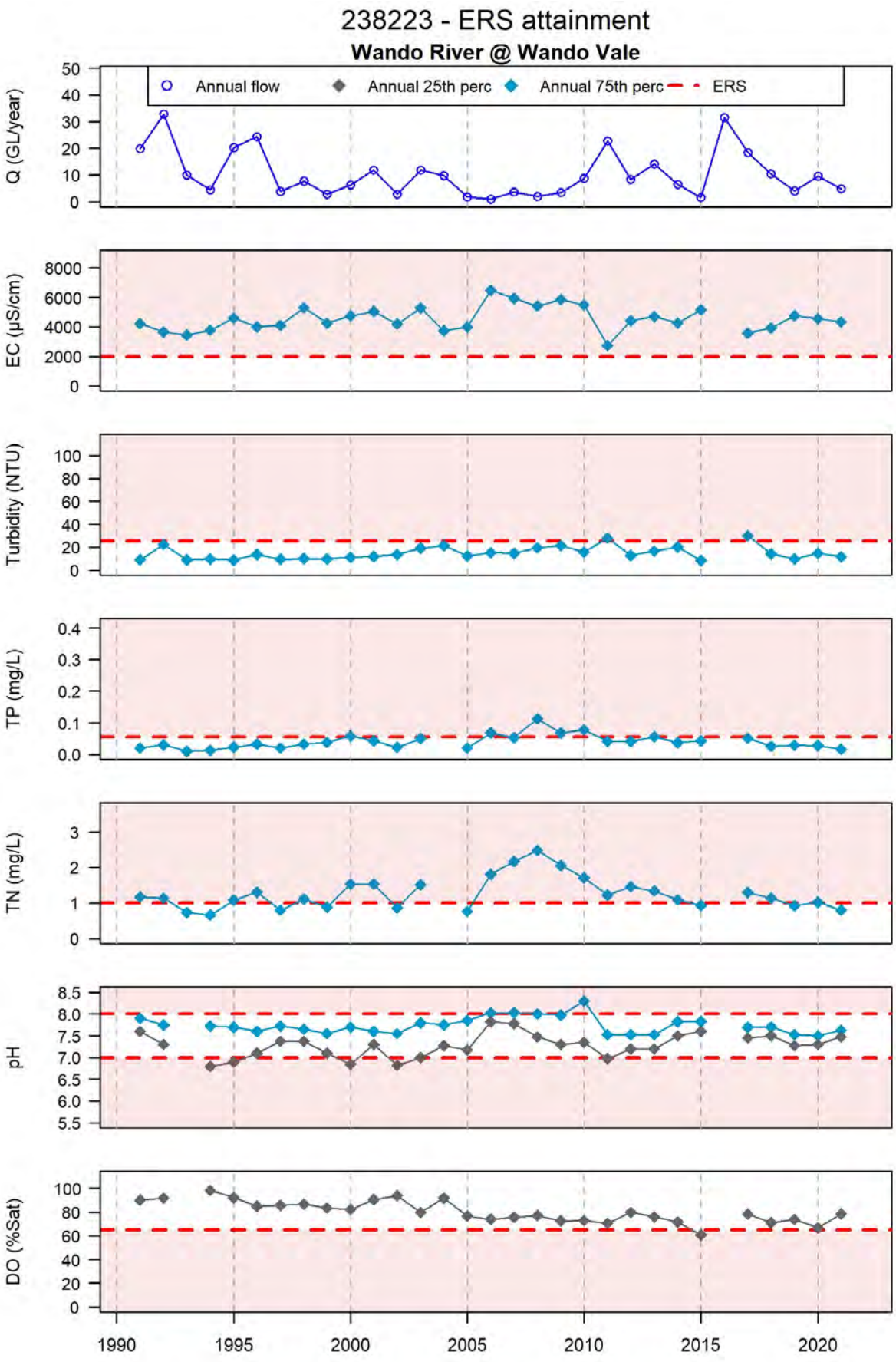

238204 - All samples
Wannon River @ Dunkeld
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020


238204 - ERS attainment
Wannon River @ Dunkeld
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020


238228 - All samples
Wannon River @ Henty
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020


238228 - ERS attainment
Wannon River @ Henty
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020


238223 - All samples
Wando River @ Wando Vale
Sum/Aut sample
Win/Spr sample
Annual median
Q (ML/day)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (mg/L)
1990
1995
2000
2005
2010
2015
2020


238223 - ERS attainment
Wando River @ Wando Vale
Annual flow
Annual 25th perc
Annual 75th perc
ERS
Q (GL/year)
EC (µS/cm)
Turbidity (NTU)
TP (mg/L)
TN (mg/L)
pH
DO (%Sat)
1990
1995
2000
2005
2010
2015
2020