MONITORING OF THE PAR RIVER AND ITS TRIBUTARIES

The monitoring group operates under the citizen science scheme run by the Westcountry Rivers Trust. Comments and opinions in this report are those of the authors only.

MARCH 2025

Beavers were once common along British rivers; now they are making a comeback.

A. OUR MARCH 2025 FINDINGS AT A GLANCE (SEE SECTIONS C TO I FOR FULL PICTURE)

1. Data

We sampled at 15 locations between 10th and 13th March 2025. The **red** highlighting shows results of concern.

CRITERIA	UPPER PAR (UPSTREAM OF CONFLUENCE WITH BOKIDDICK STREAM NEAR BLACK HILL CAR PARK) 5 TESTING LOCATIONS	LOWER PAR (FROM CONFLUENCE WITH BOKIDDICK STREAM TO SEA) 3 TESTING LOCATIONS	TRIBUTARIES OF UPPER PAR (CARBIS STREAM, MOLINNIS STREAM, TRESKILLING STREAM, BOKIDDICK STREAM) 6 TESTING LOCATIONS (5 for Temp. and TDS)*	TRIBUTARY OF LOWER PAR (POLMEAR STREAM) 2 TESTING LOCATIONS
TEMPERATURE ˚ CELSIUS (SHOULD NOT EXCEED 18˚ CELSIUS)	Mean 9.26 Median 8.9 Min 7.3 Max 11	Mean 9.63 Median 9.8 Min 8.5 Max 10.6	Mean 11.2 Median 11.5 Min 8.5 Max 12.9	Mean 10.25 Median 10.25 Min 9.7 Max 10.8
TOTAL DISSOLVED SOLIDS PPM (SHOULD NOT EXCEED 300 PPM)	Mean 86.2 Median 83 Min 66 Max 105	Mean **306.33** Median 94 Min 92 Max **733**	Mean 65.8 Median 67 Min 57 Max 70	Mean 148 Median 148 Min 119 Max 177
TURBIDITY (SHOULD BE <12 ON SECCHI TUBE. FOR AVERAGING ANY READING <12 IS COUNTED AS 0)	Mean 0 Median 0 Min 0 Max 0	Mean 0 Median 0 Min 0 Max 0	Mean 0 Median 0 Min 0 Max 0	Mean 0 Median 0 Min 0 Max 0
PHOSPHATES PPB (SHOULD NOT EXCEED 100 PPB)	Mean **400** Median 0 Min 0 Max **1000**	Mean **333.33** Median **500** Min 0 Max **500**	Mean 0 Median 0 Min 0 Max 0	Mean 0 Median 0 Min 0 Max 0
RIVERFLY SCORE (TRIGGER LEVEL AT LRM SHOULD BE ≥ 6)	RIVERFLY SURVEYS WILL RESUME IN SPRING 2025			
WILDLIFE EVIDENCE	HEARD: Reed Bunting, Robin, Chaffinch, Goldfinch, Chiffchaff, Coal Tit, Blue Tit, Wren, Greenfinch, Canada Goose, Carrion crow, Siskin. SEEN: Deer tracks, Canada Geese, Heron, Dipper. Possible otter spraint.	Wader, Rook, Gull.	HEARD: Robin, Blue Tit, Goldcrest, Goldfinch, Chaffinch, Wren, Dunnock SEEN: Beaver lake, beaver-gnawed trees.	HEARD: Great tit. Blue Tit, Coal tit, Robin, Wren, Dunnock, House Sparrow, Chaffinch, Collared Dove, Jackdaw.
INVASIVE PLANTS	Hemlock Water Dropwort	None	Hemlock Water Dropwort, Japanese Knotweed	None
EVIDENCE OF POLLUTION	Foam, smell	None	None.	None

*It was not possible to obtain readings for Temperature and Total Dissolved Solids at Molinnis.

2. Key points

(a) Positive signs

(i) Wildlife sightings and other evidence, e.g. sighting of Heron and Dipper, bird calls, possible otter spraint (not possible to reach) and signs of beaver activity.

(ii) Low rainfall meant that the SWW sewer overflows were not active, except at the start of the month.

(b) Points of concern

(i) Very high phosphate levels on the Upper and Lower Par, starting downstream from St Austell North STW at Luxulyan. Phosphate levels tend to be in inverse proportion to rainfall levels. Since the very high levels are expected at times of low water they were not reported to the Environment Agency.

(ii) Smell at Cam Bridges.

(iii) Very high Total Dissolved Solids at Par Beach Slipway. Readings are always take at low tide but possibly salinity levels remain high.

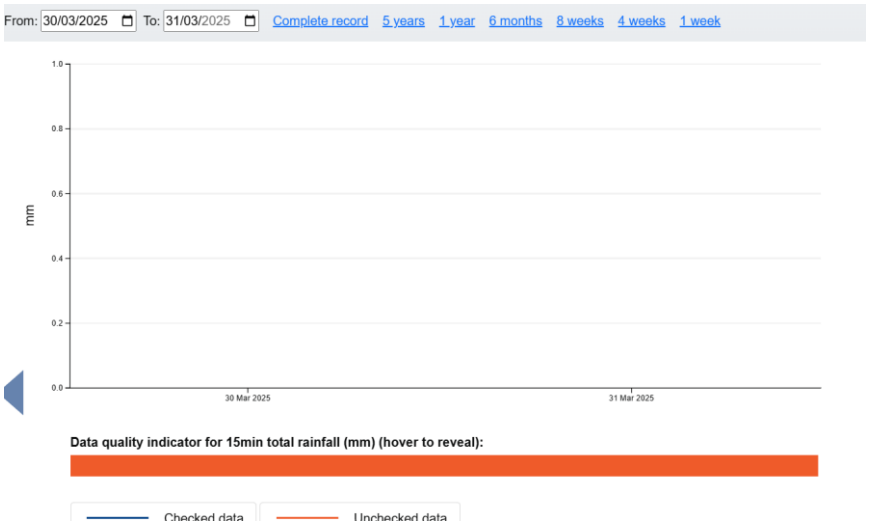
(c) Areas for further research

The sources and impact of all potential pollutants entering the various watercourses.

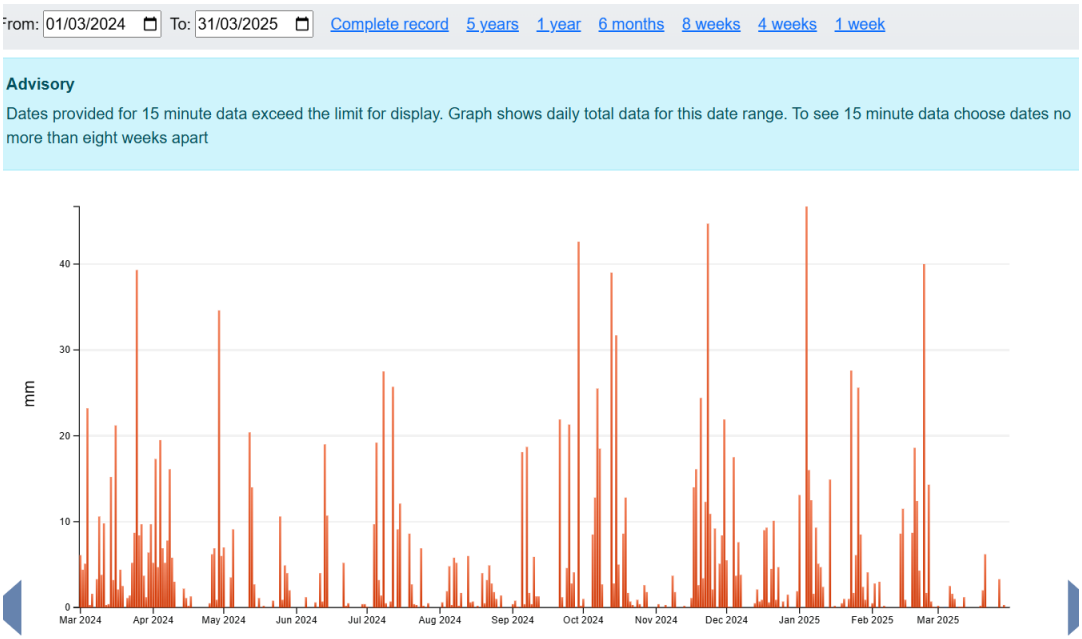
B. RAINFALL, RIVER LEVELS AND FLOW

1. Rainfall at Luxulyan (https://environment.data.gov.uk/hydrology/station/14aadf3c-3d4d-44b3-b26b-cf705827d00e_377323)

(a) March 2025



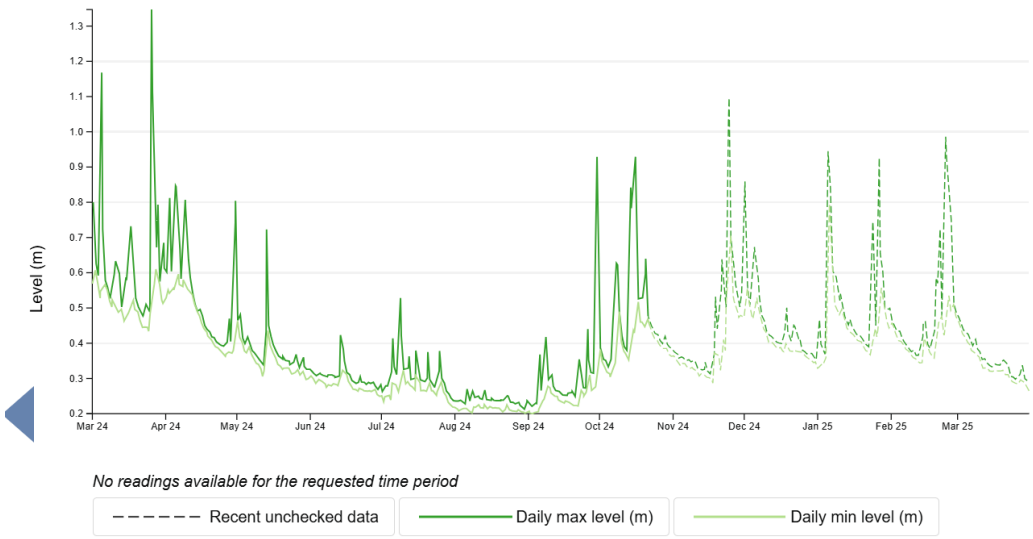
(b) 1st March 2024 to 31st March 2025



2. Par River levels at Luxulyan preceding and during surveys. Source: https://environment.data.gov.uk/hydrology/station/14aadf3c-3d4d-44b3-b26b-cf705827d00e

(a) Levels for March 2025

(b) Levels 1st March 2024 to 31st March 2025

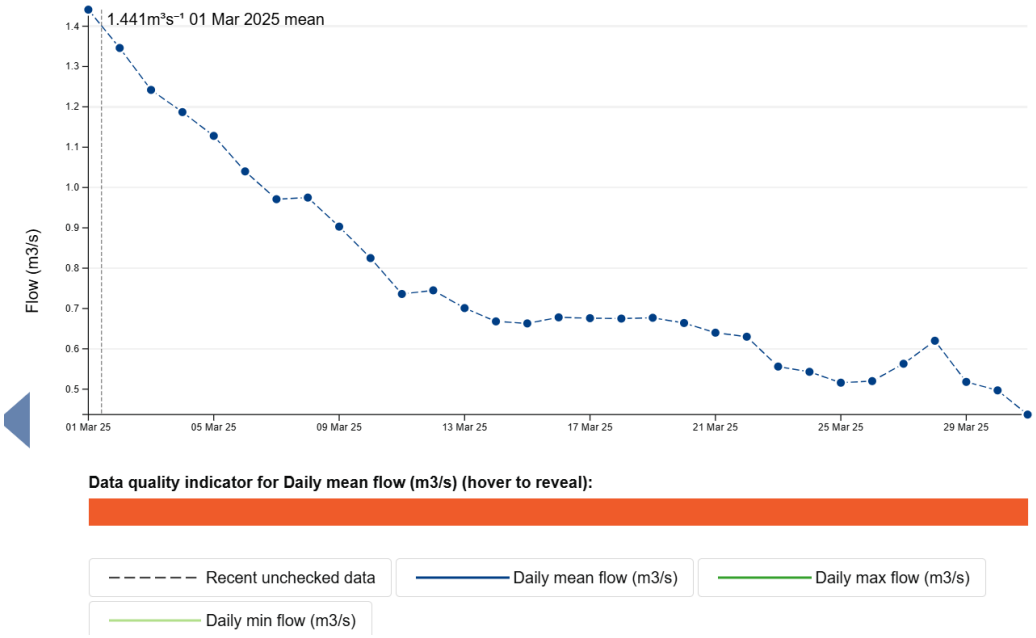


(c) How levels at Luxulyan could affect nearby areas:

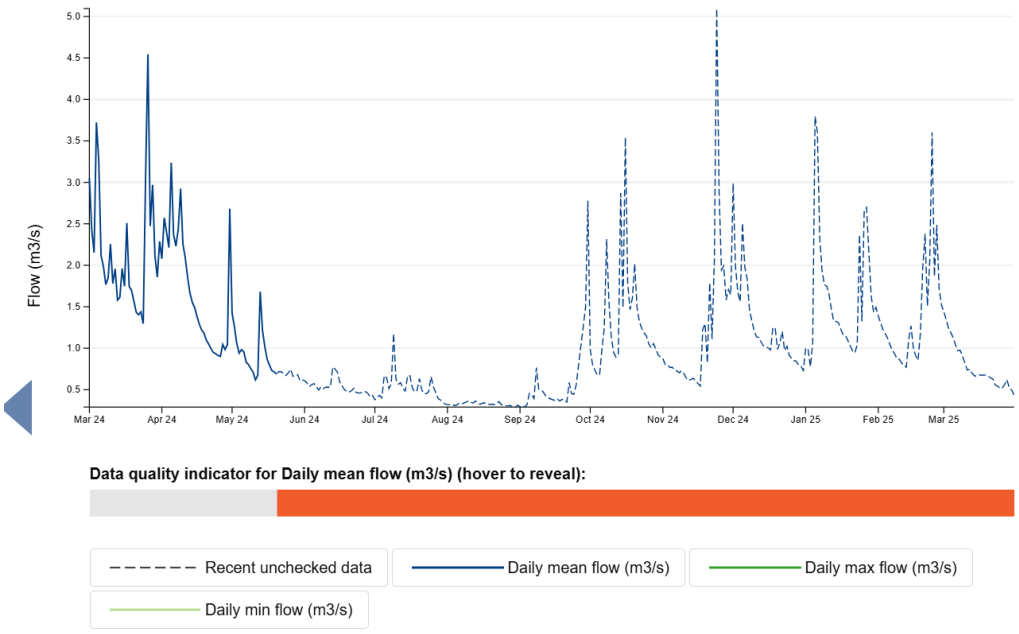
1.80m	Property flooding is possible above this level. One or more flood warnings may be issued
1.68m	Water reaches the highest level recorded at this measuring station (recorded on 19 December 1999)
1.40m	Low lying land flooding is possible above this level. One or more flood alerts may be issued
	This is the top of the normal range

3. RIVER FLOW AT LUXULYAN (Daily Mean Flow in M3/s – cubic metres per second):

(a) The last month (N.B. Some data unchecked):



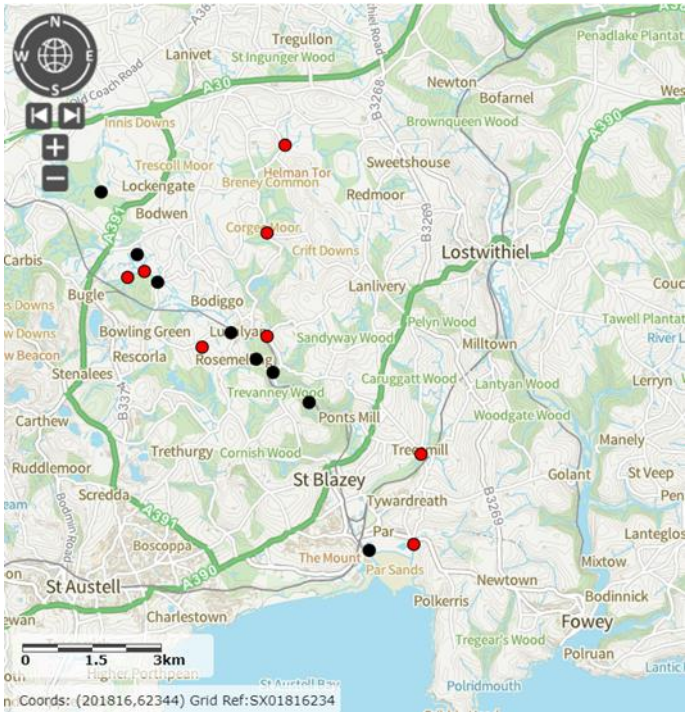
(b) From 1st March 2024 until 31st March 2025



4. The graphs in sections 1 to 3 are taken from Hydrology Data Explorer (https://environment.data.gov.uk/hydrology/explore). Data for Luxulyan and Par St Andrews are used here. Other stations in the Par catchment include: Ponts Vale, Par Highways, Treesmill Dam Public Footpath, Treesmill Dam Marsh Villa Gardens, and St Blazey (rainfall only). It is possible to check daily Par River levels for Luxulyan, Ponts Vale and St Blazey Station Stream at St Blazey Station Road at: https://check-for-flooding.service.gov.uk/river-and-sea-levels/rloi/3159 .

C. MARCH 2025 MONITORING POINTS

This month monitoring occurred at 16 locations. Monitoring points along the main Par River are shown in black. Those in red are on tributaries. **Source:** https://magic.defra.gov.uk/MagicMap.aspx



LOCATION	PAR/TRIBUTARY	DATE/TIME	TYPE OF CHECK	MONITORED BY
Criggan Moors, Par River, SX 01882 61133	**PAR**	12/3/2025 9	CSI sample & Cartographer record.	Roger Smith
South of Minorca Lane, Par River, SX02668 59747	**PAR**	12/3/2025 8.20	CSI sampling. Cartographer record.	Roger Smith
Near Forkandles farm, Molinnis Stream, SX 02460 59271	**SECONDARY TRIBUTARY (OF CARBIS STREAM)**	12/3/2025 10.10	CSI sample & Cartographer record.	Roger Smith
Carbis Stream SX 02834 59401	**TRIBUTARY**	12/3/2025 9.50	CSI sampling. Cartographer record.	Roger Smith
Lavrean, Par River SX 03134 59164	**PAR**	12/3/2025 11	CSI sampling. Cartographer record.	Roger Smith
Treskilling, Treskilling Stream, SX 04107 57726	**TRIBUTARY**	12/3/2025 11.15	CSI sampling. Cartographer record.	Roger Smith
Luxulyan allotments, Par River, SX 04732 58045	**PAR**	12/3/2025 11.40	CSI sampling. Cartographer record.	Roger Smith
Cam Bridges, Par River, SX 05292 57454	**PAR**	12/3/2025 13.15	CSI sampling. Cartographer record.	Roger Smith
Trebell Green, Bokiddick Stream SX 0551960226	**TRIBUTARY**	10/3/2025 15.35	CSI sampling. Cartographer record.	Roger Smith
Corgee Moor, Bokiddick Stream SX 0593462167	**TRIBUTARY**	10/3/2025 16.25	CSI sampling. Cartographer record.	Roger Smith
Gatty's Bridge, Bokiddick Stream SX 05531 57953	**TRIBUTARY**	12/3/2025 15.25	CSI sampling. Cartographer record.	Joan Farmer
Treffry Viaduct, Par River, SX 05650 57179	**PAR**	12/3/2025 13.40	CSI sampling. Cartographer record.	Roger Smith
Lady Rashleigh Mine, Par River, SX 06451 56509	**PAR**	12/3/2025 14.20	CSI sampling. Cartographer record.	Roger Smith
Treesmill, Tywardreath Stream, SX 08873 55385	**TRIBUTARY**	12/3/2025 11.35	CSI sampling. Cartographer record.	Maggie Tagney
Par Beach slipway, SX 0776 53261	**PAR**	13/3/2025 10.40	CSI sampling. Cartographer record.	Brian Harrisson
Polmear Stream, Ship Inn SX 08749 53417	**TRIBUTARY**	13/3/2025 11.06	CSI sampling. Cartographer record.	Simon Tagney

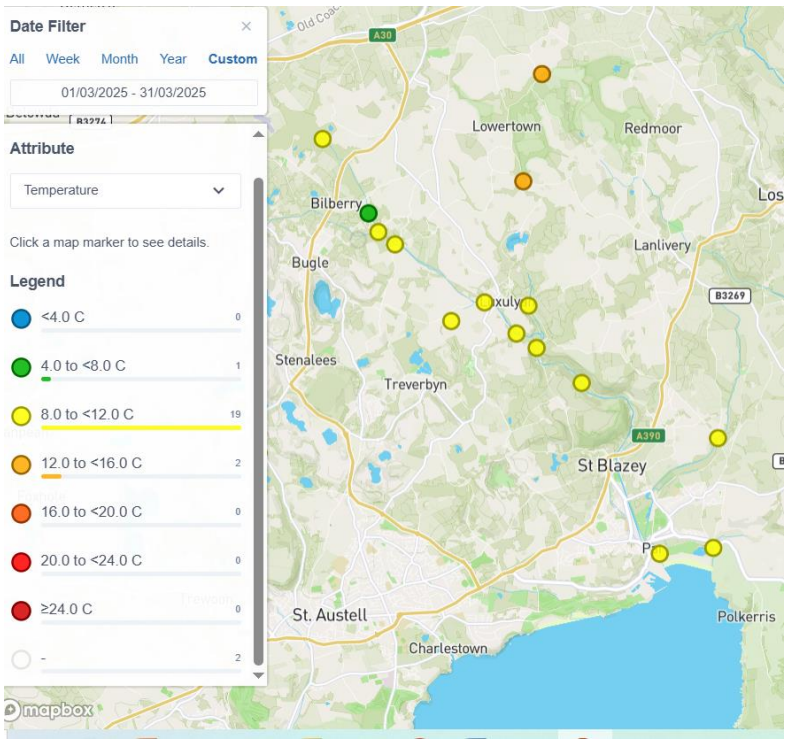
The times have been included in case that explains some of the variations in water temperature.

D. TEMPERATURE

1. This is the WRT's explanation of why this is monitored:

Temperature is a vital parameter within the river ecosystem. It controls many of the aquatic species life cycles. Temperature fluctuates with the seasons; however, you do get variation within that, particularly in small rivers and streams. Another important reason to measure temperature is to track the impact of our warming climate on our waterbodies.

Geographical comparison. Source: Cartographer.



2. Results March 2025

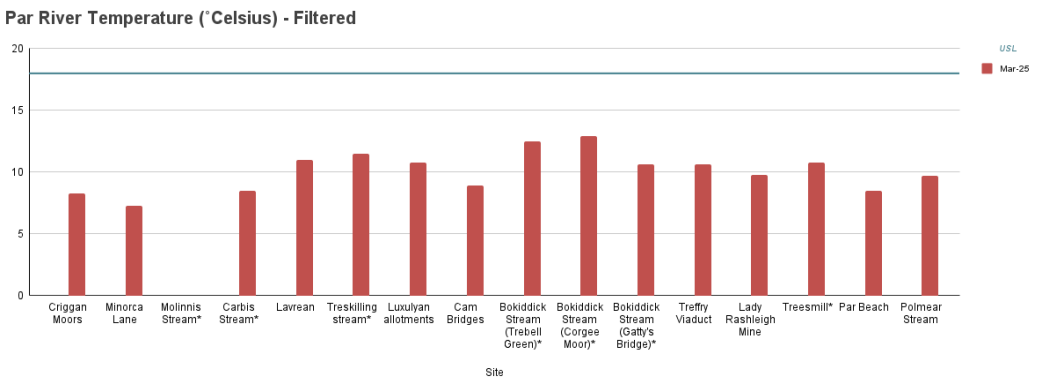
Results above the temperature at which fish and other organisms can function healthily will be shown in red. At present, 18 ˚Celsius is being used as the upper safe limit for fish and other creatures, although 20˚ Celsius has been suggested by WRT instead. The Yealm Estuary to Moor Project (YEM) in Devon considers that the upper safe level (USL) for temperature is 19.5 °C.

From December 2023 all readings have been taken with the new thermometer/TDS device. Previously, all Upper Par readings, except for Lady Rashleigh Mine, have been taken with the old device. There is a worrying discrepancy with the readings on the older devices.

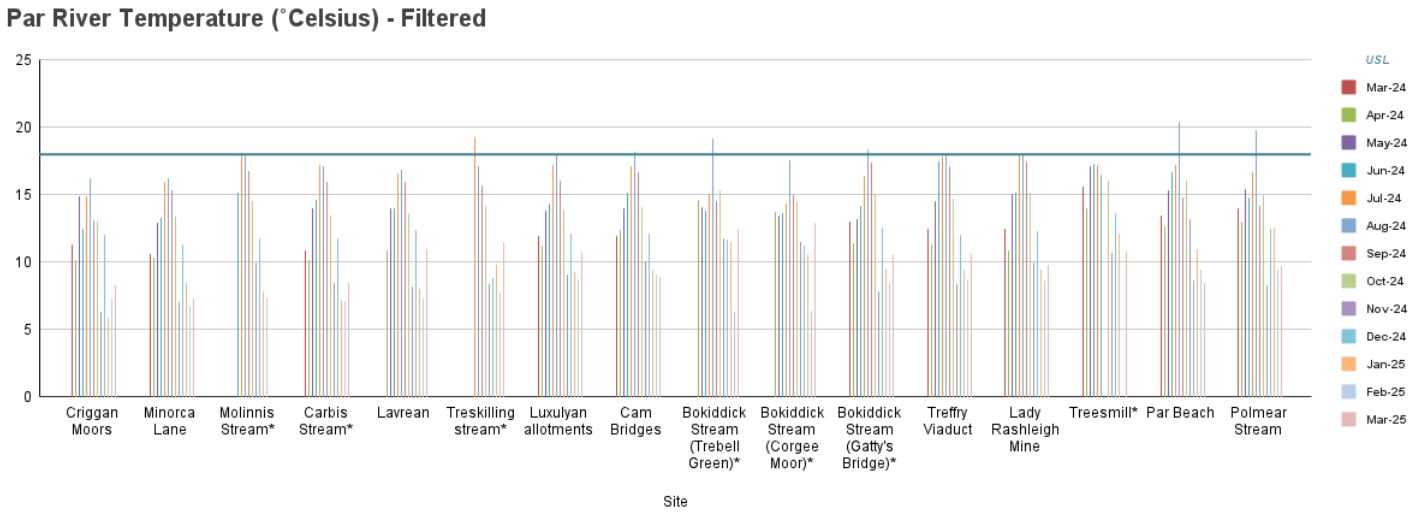
PAR RIVER/TRIBUTARY	LOCATION	Temperature ˚Celsius
Par	Criggan Moors, Par River, SX 01882 61133	8.3
Par	South of Minorca Lane, Par River, SX 02657 59788	7.3
Secondary tributary	Near Forkandles Farm, Molinnis Stream, SX 02460 59271	n/a
Tributary	Carbis Stream SX 02834 59401	8.5
Par	Lavrean, Par River SX 03134 59164	11
Tributary	Treskilling, Treskilling Stream, SX 04107 57726	11.5
Par	Luxulyan allotments, Par River, SX 04732 58045	10.8
Par	Cam Bridges, Par River, SX 05292 57454	8.9
Tributary	Trebell Green, Bokiddick Stream SX 0551960226	12.5
Tributary	Corgee Moor, Bokiddick Stream SX 0593462167	12.9
Tributary	Gatty's Bridge, Bokiddick Stream SX 05531 57953	10.6
Par	Treffry Viaduct, Par River, SX 05650 57179	10.6
Par	Lady Rashleigh Mine, Par River, SX 06451 56509	9.8
Tributary	Treesmill, Tywardreath Stream, SX 08873 55385	10.8
Par	Par Beach slipway, SX 0776 53261	8.5
Tributary	Polmear Stream, Ship Inn, SX 08749 53417	9.7

3. Graphs

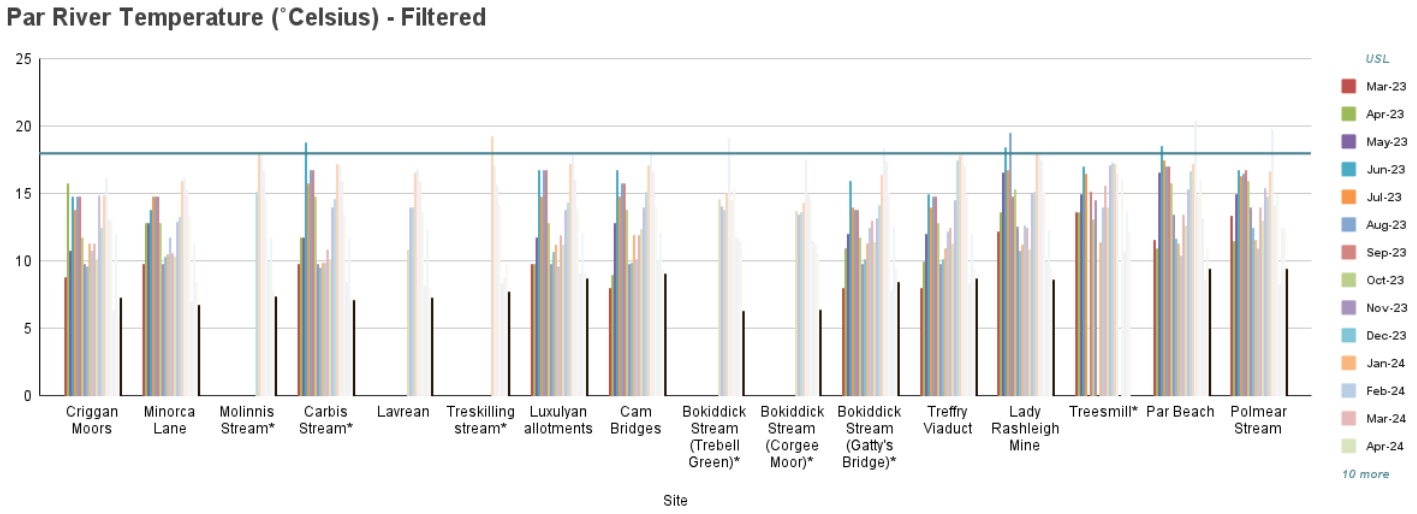
(a) This month:



(b) From 1st March 2024 until 31st March 2025:



(c) From 1st March 2023 until 31st March 2025:

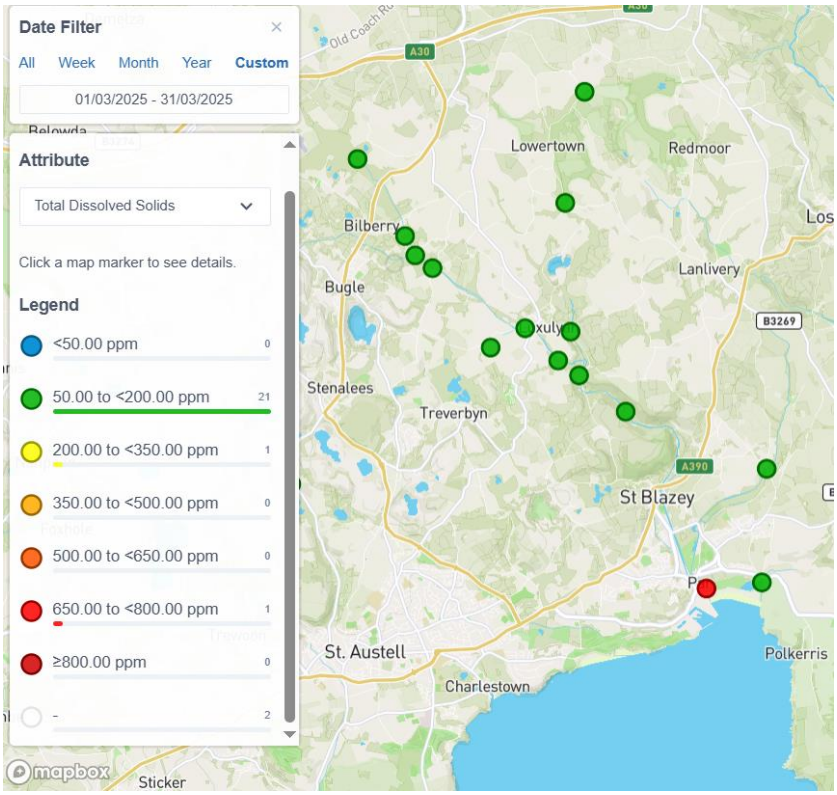


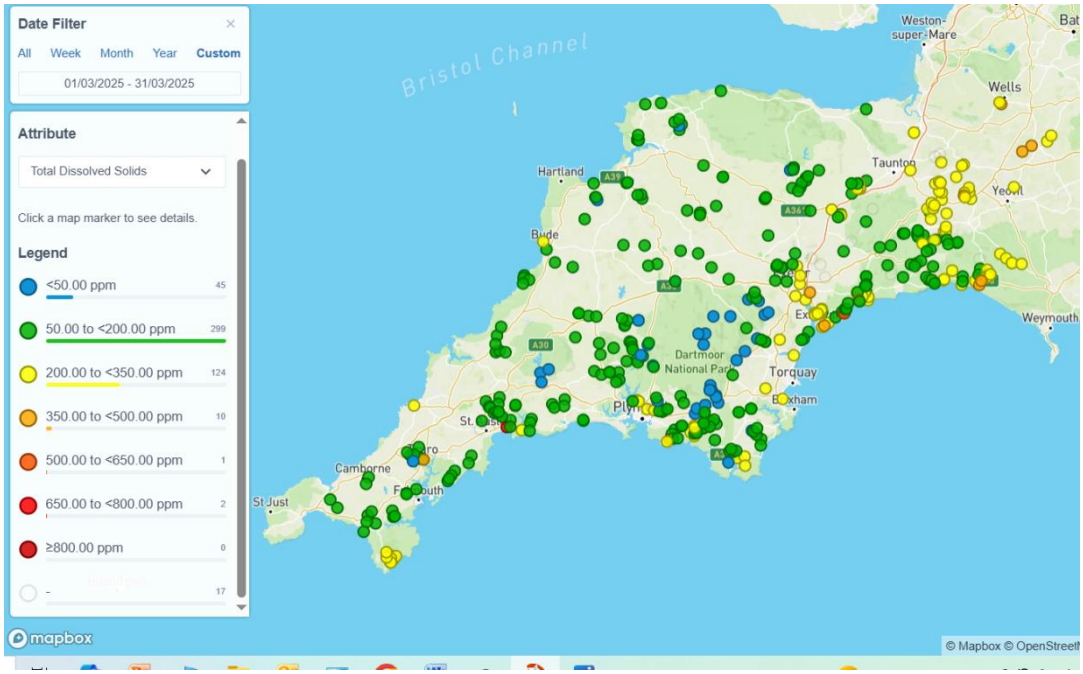
E. TOTAL DISSOLVED SOLIDS

1. We measure these in ppm (parts per million). This is the WRT's explanation:

Total Dissolved Solids (TDS) is directly related to the conductivity of the water. The more minerals, salts and metals that are dissolved in the water the more conductive it gets. Low levels of dissolved solids in waters such as those on Dartmoor near to the source of the river are a result of very low levels of input from the surrounding landscape. As the river runs down to the sea it collects material from many different inputs, some natural and some man-made such as farms, sewage plants, factories and residential areas. This typically increases the amount of solids dissolved in the water leading to a higher reading. Harmful pollution from things like sewage, slurry and factory discharge will usually elevate your TDS reading. However, some pollutants such as oil can lower conductivity; therefore it should be used as a general indicator of water quality not a specific measure of toxicity. Geology will influence the normal level of conductivity in a watercourse (e.g. Areas dominated by granite generally give a lower conductivity than those with limestone). Regular monitoring will allow the detection of changes in conductivity which can indicate pollution.

2. Geographical comparison. Source: Cartographer.



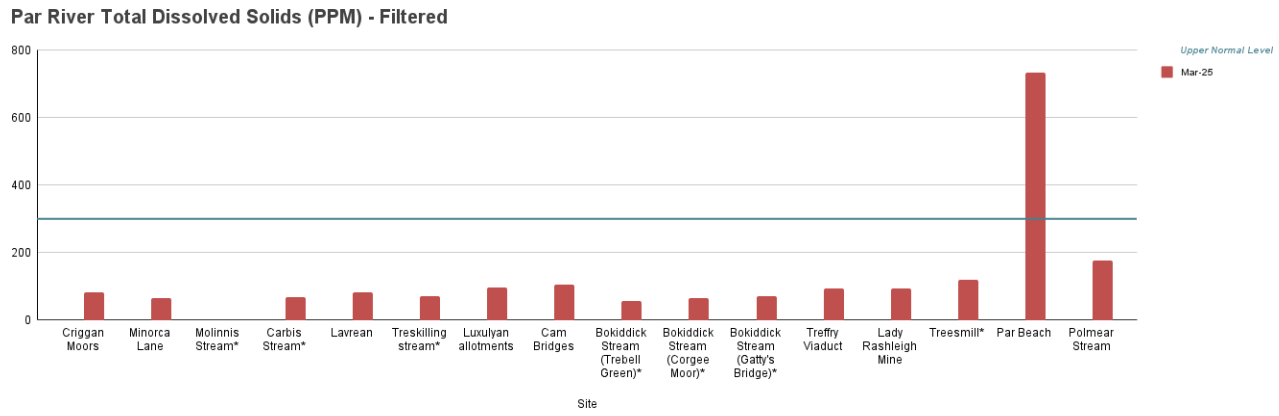


2. Results March 2025

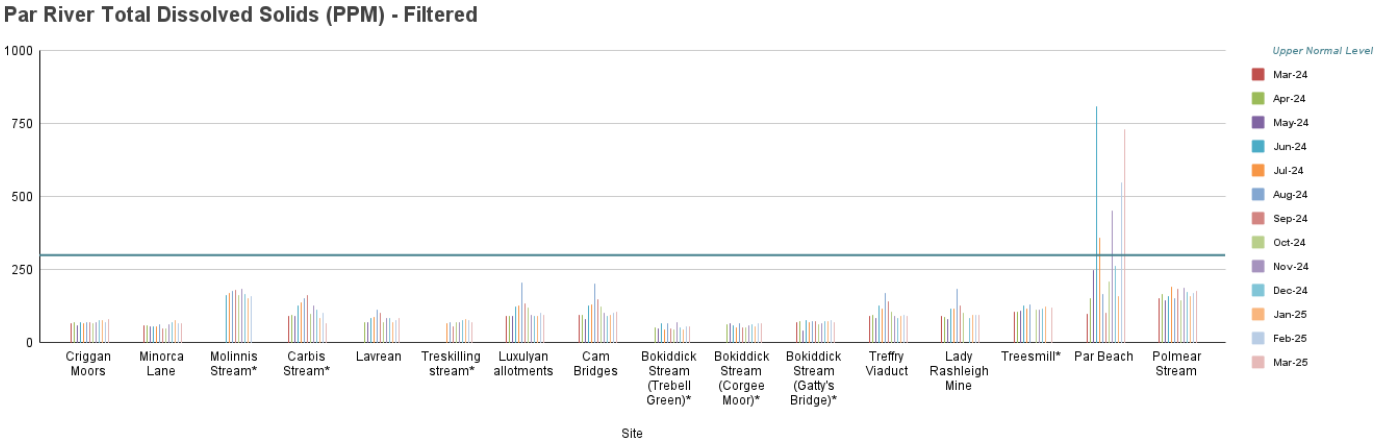
PAR RIVER/TRIBUTARY	LOCATION	Total Dissolved Solids PPM
Par	Criggan Moors, Par River, SX 01882 61133	81
Par	South of Minorca Lane, Par River, SX 02657 59788	66
Secondary tributary	Near Forkandles Farm, Molinnis Stream, SX 02460 59271	n/a
Tributary	Carbis Stream SX 02834 59401	67
Par	Lavrean, Par River SX 03134 59164	83
Tributary	Treskilling, Treskilling Stream, SX 04107 57726	70
Par	Luxulyan allotments, Par River, SX 04732 58045	96
Par	Cam Bridges, Par River, SX 05292 57454	105
Tributary	Trebell Green, Bokiddick Stream SX 0551960226	57
Tributary	Corgee Moor, Bokiddick Stream SX 0593462167	65
Tributary	Gatty's Bridge, Bokiddick Stream SX 05531 57953	70
Par	Treffry Viaduct, Par River, SX 05650 57179	92
Par	Lady Rashleigh Mine, Par River, SX 06451 56509	94
Tributary	Treesmill, Tywardreath Stream, SX 08873 55385	119
Par	Par Beach slipway, SX 0776 53261	733
Tributary	Polmear Stream, Ship Inn, SX 08749 53417	177

3. Graphs

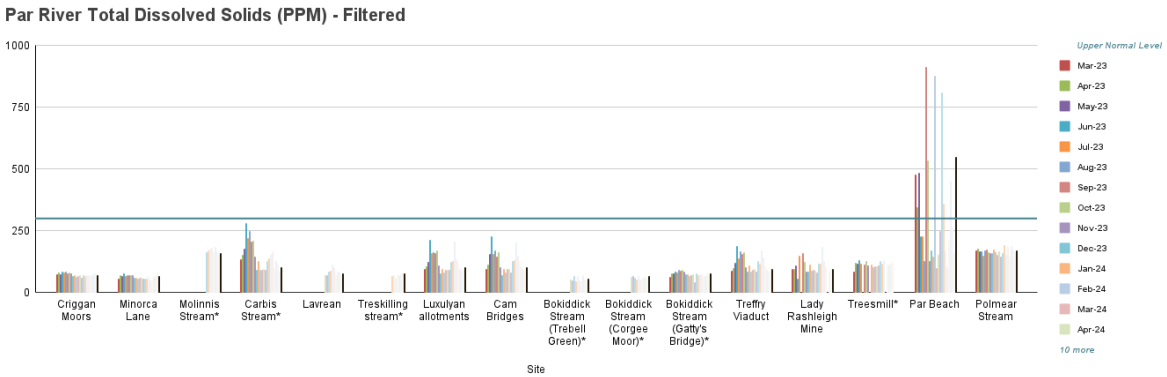
(a) This month:



(b) From 1st March 2024 until 31st March 2025



(c) From 1st March 2023 until 31st March 2025



F. TURBIDITY

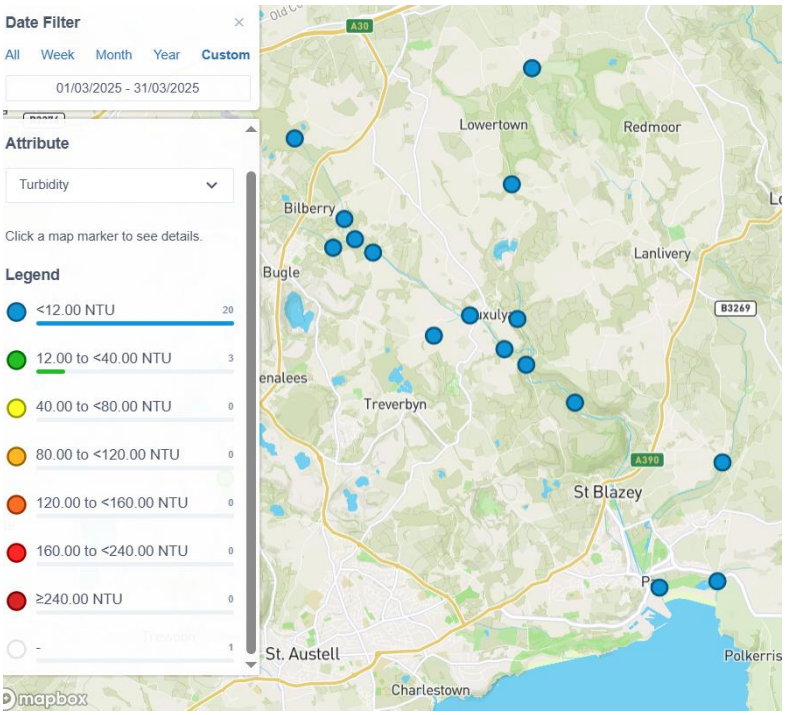
1. This is the WRT explanation of this measure:

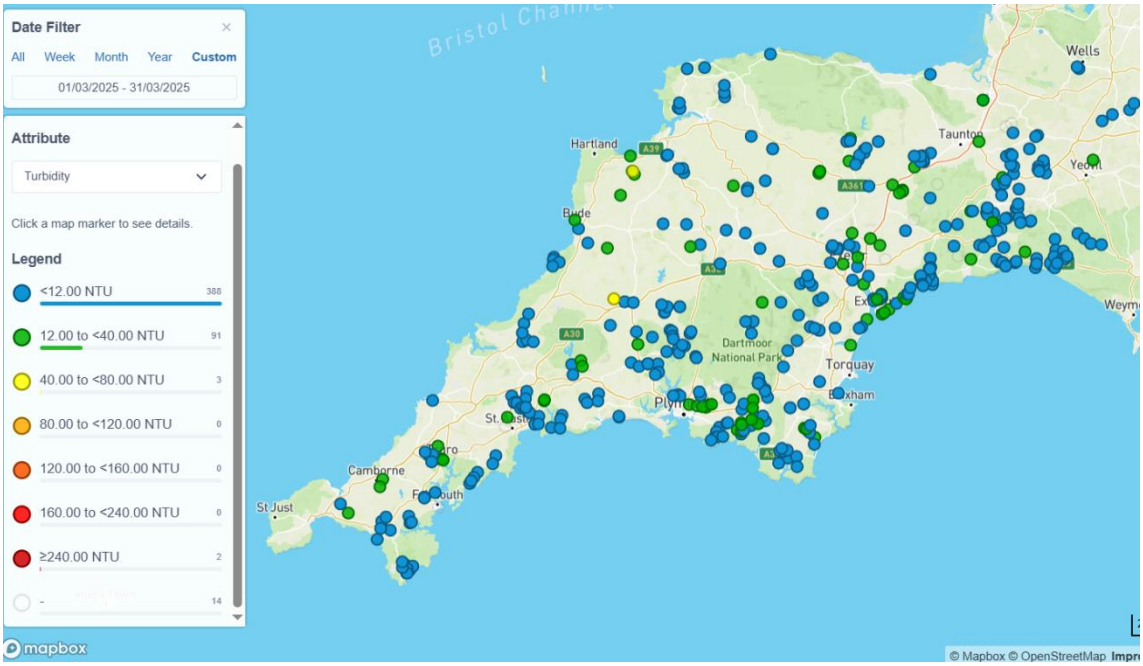
Turbidity tube is a measure of the optical clarity of the water. The more suspended particles in the water the lower the clarity and the higher the turbidity. You will often find your waterbody gets more turbid after heavy rainfall due to soil running off the fields and sediment being mixed into the water column. This loss of topsoil is both a problem for farmer and river. It can often contain chemicals from the fertiliser and pesticides used on the land. An increase in sediment level on the substrate of the river can cause smothering of habitat by removing light and oxygen. Aquatic wildlife such as the less mobile invertebrates and fish eggs struggle to survive in low oxygen conditions and without light, plants are unable to grow. It is a good idea to sample your river after different weather conditions to understand how it responds to rainfall or drought.

The Yealm Estuary to Moor Project (YEM) in Devon considers that the upper safe level (USL) for turbidity is 75 NTU = 25 mg/l.

2. Results March 2025:

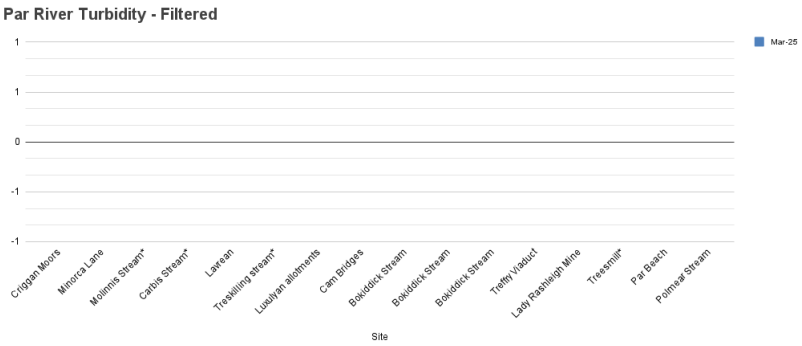
PAR RIVER/TRIBUTARY	LOCATION	Turbidity (NTU)
Par	Criggan Moors, Par River, SX 01882 61133	<12
Par	South of Minorca Lane, Par River, SX 02657 59788	<12
Secondary tributary	Near Forkandles Farm, Molinnis Stream, SX 02460 59271	<12
Tributary	Carbis Stream SX 02834 59401	<12
Par	Lavrean, Par River SX 03134 59164	<12
Tributary	Treskilling, Treskilling Stream, SX 04107 57726	<12
Par	Luxulyan allotments, Par River, SX 04732 58045	<12
Par	Cam Bridges, Par River, SX 05292 57454	<12
Tributary	Trebell Green, Bokiddick Stream SX 0551960226	<12
Tributary	Corgee Moor, Bokiddick Stream SX 0593462167	<12
Tributary	Gatty's Bridge, Bokiddick Stream SX 05531 57953	<12
Par	Treffry Viaduct, Par River, SX 05650 57179	<12
Par	Lady Rashleigh Mine, Par River, SX 06451 56509	<12
Tributary	Treesmill, Tywardreath Stream, SX 08873 55385	<12
Par	Par Beach slipway, SX 0776 53261	<12
Tributary	Polmear Stream, Ship Inn, SX 08749 53417	<12


Date Filter
All Week Month Year Custom
01/03/2025 - 31/03/2025
Attribute
Turbidity
Click a map marker to see details.
Legend
<12.00 NTU 20
12.00 to <40.00 NTU 3
40.00 to <80.00 NTU 0
80.00 to <120.00 NTU 0
120.00 to <160.00 NTU 0
160.00 to <240.00 NTU 0
≥240.00 NTU 0
- 1
Lowertown
Redmoor
Bilberry
Bugle
Lanlivery
B3269
Treverbyn
A390
St Blazey
St. Austell
Polkerris
Charlestown
mapbox

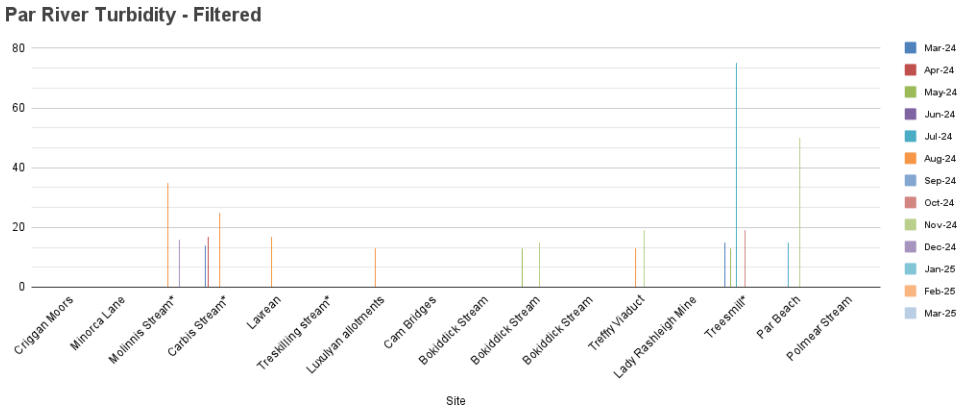

Date Filter
All Week Month Year Custom
01/03/2025 - 31/03/2025
Attribute
Turbidity
Click a map marker to see details.
Legend
<12.00 NTU 388
12.00 to <40.00 NTU 91
40.00 to <80.00 NTU 3
80.00 to <120.00 NTU 0
120.00 to <160.00 NTU 0
160.00 to <240.00 NTU 0
≥240.00 NTU 2
- 14
Bristol Channel
Wells
Hartland
Taunton
Bude
A30
Dartmoor National Park
Torquay
Camborne
St Just
mapbox
© Mapbox © OpenStreetMap

3. Graphs

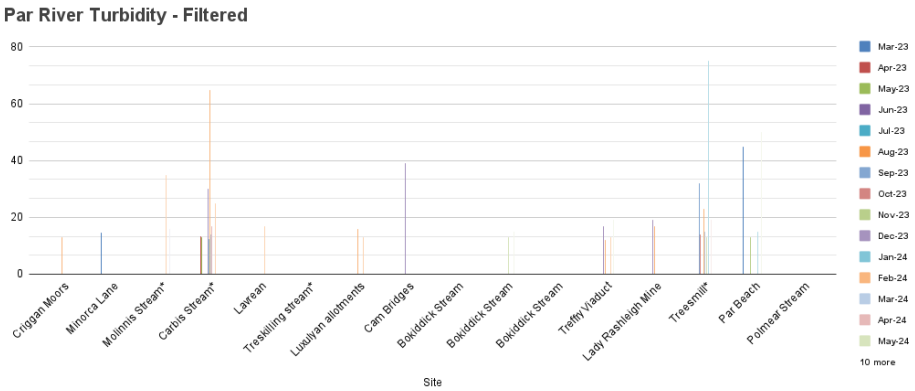
(a) This month



(b) From 1st March 2024 until 31st March 2025



(c) From 1st March 2023 until 31st March 2025



G. PHOSPHATES

1. This is the WRT's explanation of this measure.

Phosphate occurs naturally within the river ecosystem, but in very low levels under 0.05 mg/l. Therefore, higher levels may indicate anthropogenic input. Phosphate is found in animal and human waste, cleaning chemicals, industrial runoff and fertiliser so this can be a good indicator of pollution. Having raised levels of phosphate can lead to increases in plant growth within the watercourse. This leads to a depletion of oxygen due to the plant's aerobic respiration during the night. Without oxygen aquatic species cannot survive and the river ecosystem collapses. (It is important to note that phosphate is taken up by plants. You may get a low reading but high plant growth, indicating eutrophication.)

Ranges on phosphate diagnostic colour chart:

0 – 100 OK

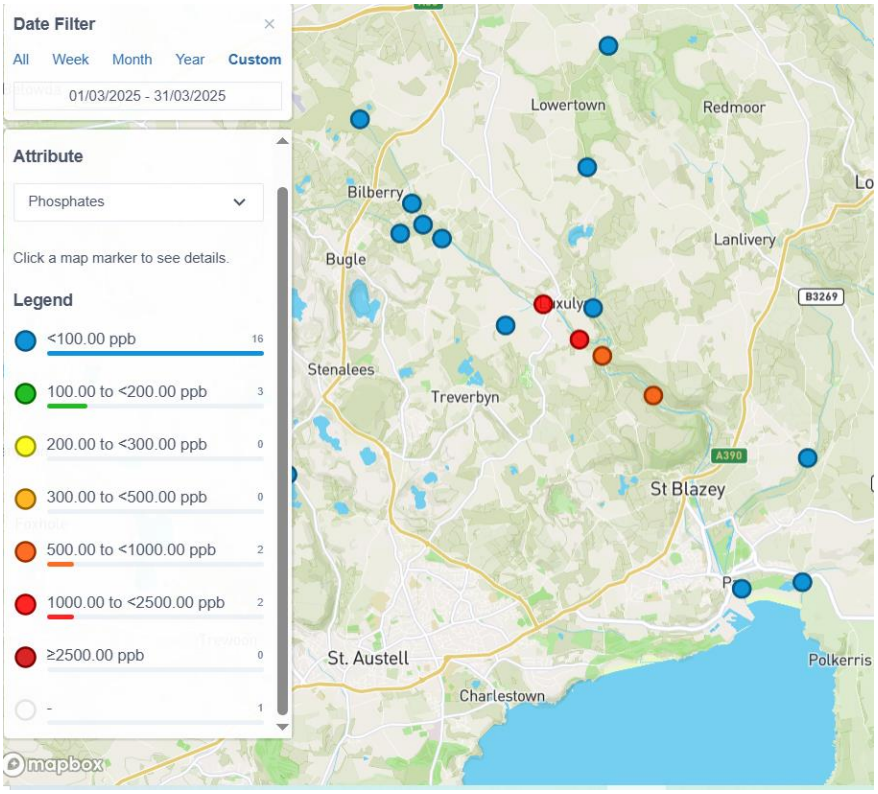
200 – 300 HIGH

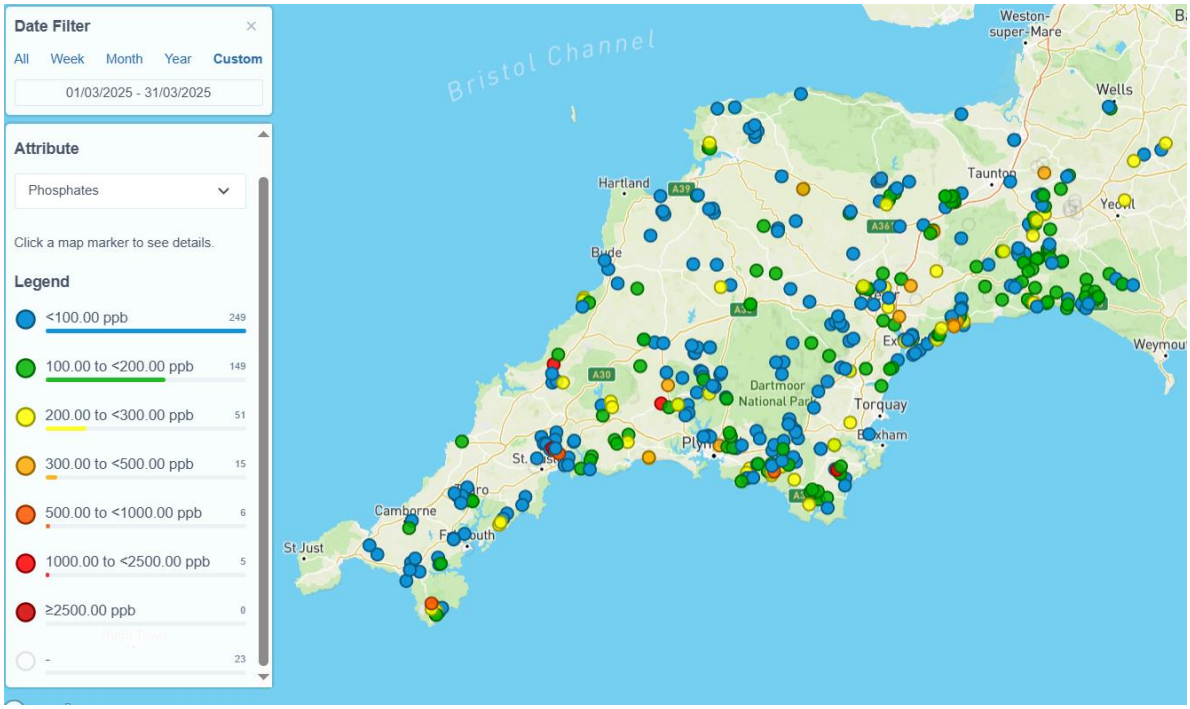
500 – 2500 – TOO HIGH

2. Results March 2025

Results in red show phosphate levels that are classified as 'High' (above the upper safe level). WRT advice is that this is 100 Parts per Billion (0.1 mg/l).

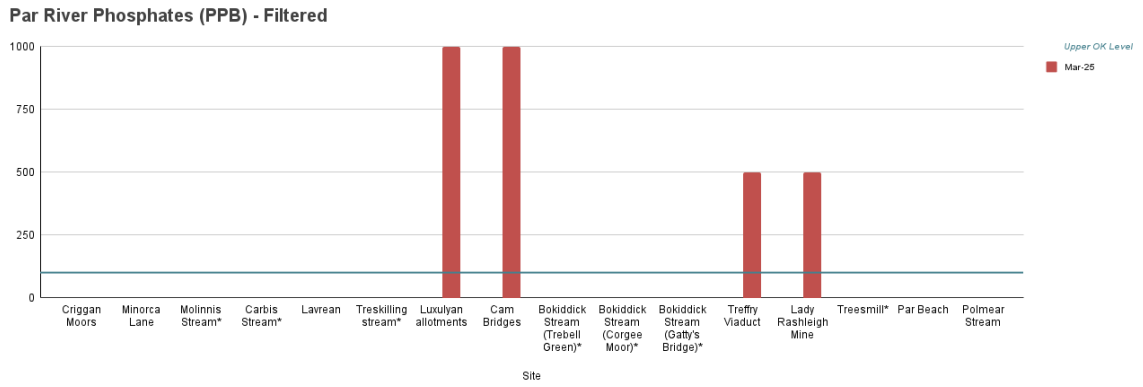
PAR RIVER/TRIBUTARY	LOCATION	Phosphates PPB
Par	Criggan Moors, Par River, SX 01882 61133	0
Par	South of Minorca Lane, Par River, SX 02657 59788	0
Secondary tributary	Near Forkandles Farm, Molinnis Stream, SX 02460 59271	0
Tributary	Carbis Stream SX 02834 59401	0
Par	Lavrean, Par River SX 03134 59164	0
Tributary	Treskilling, Treskilling Stream, SX 04107 57726	0
Par	Luxulyan allotments, Par River, SX 04732 58045	**1000**
Par	Cam Bridges, Par River, SX 05292 57454	**1000**
Tributary	Trebell Green, Bokiddick Stream SX 0551960226	0
Tributary	Corgee Moor, Bokiddick Stream SX 0593462167	0
Tributary	Gatty's Bridge, Bokiddick Stream SX 05531 57953	0
Par	Treffry Viaduct, Par River, SX 05650 57179	**500**
Par	Lady Rashleigh Mine, Par River, SX 06451 56509	**500**
Tributary	Treesmill, Tywardreath Stream, SX 08873 55385	0
Par	Par Beach slipway, SX 0776 53261	0
Tributary	Polmear Stream, Ship Inn, SX 08749 53417	0


Date Filter
All Week Month Year Custom
01/03/2025 - 31/03/2025
Attribute
Phosphates
Click a map marker to see details.
Legend
<100.00 ppb 16
100.00 to <200.00 ppb 3
200.00 to <300.00 ppb 0
300.00 to <500.00 ppb 0
500.00 to <1000.00 ppb 2
1000.00 to <2500.00 ppb 2
≥2500.00 ppb 0
- 1
Lowertown
Redmoor
Bilberry
Bugle
Lanlivery
Stenalees
Treverbyn
St Blazey
St. Austell
Charlestown
Polkerris
B3269
A390
mapbox

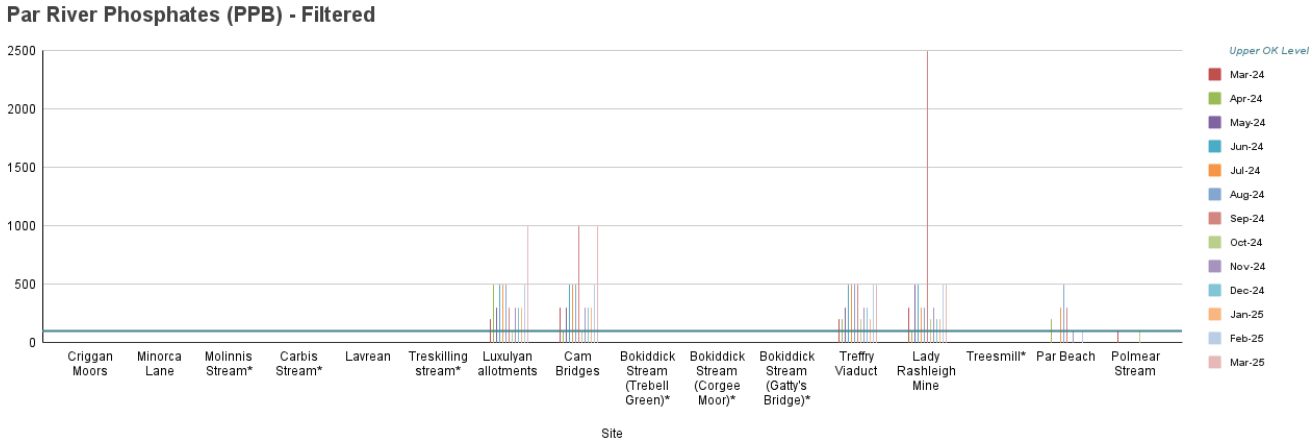

Date Filter
All Week Month Year Custom
01/03/2025 - 31/03/2025
Attribute
Phosphates
Click a map marker to see details.
Legend
<100.00 ppb 249
100.00 to <200.00 ppb 149
200.00 to <300.00 ppb 51
300.00 to <500.00 ppb 15
500.00 to <1000.00 ppb 6
1000.00 to <2500.00 ppb 5
≥2500.00 ppb 0
- 23
Bristol Channel
Weston-super-Mare
Wells
Taunton
Hartland
Bude
Dartmoor National Park
Torquay
Camborne
St Just
A30
A361

4. Graphs

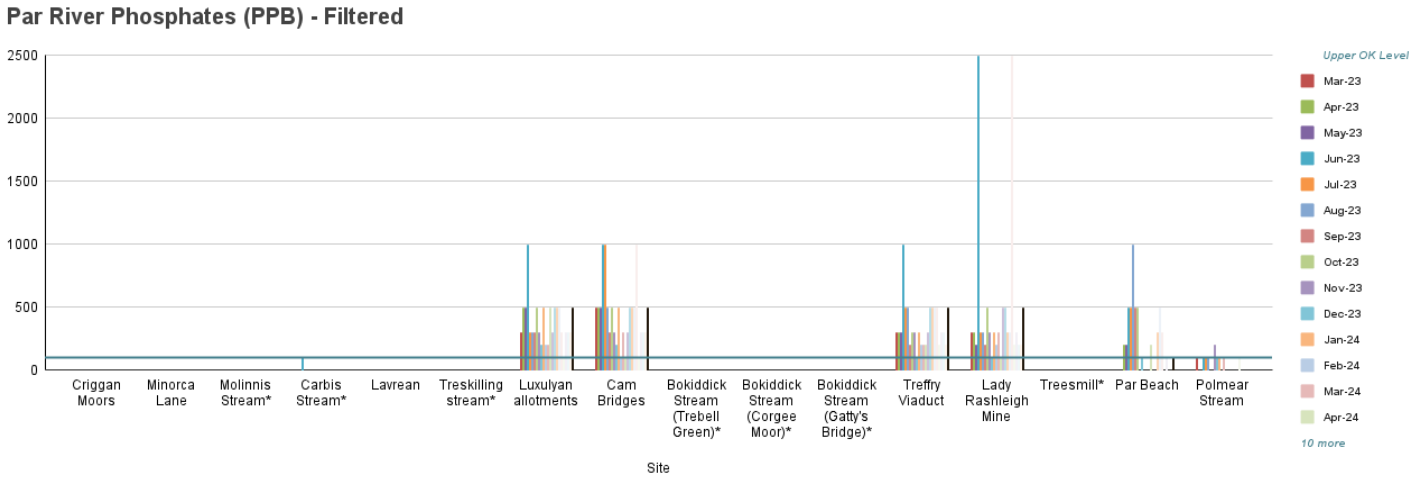
(a) This month:



(b) From 1st March 2024 until 31st March 2025



(c) From 1st March 2023 until 31st March 2025



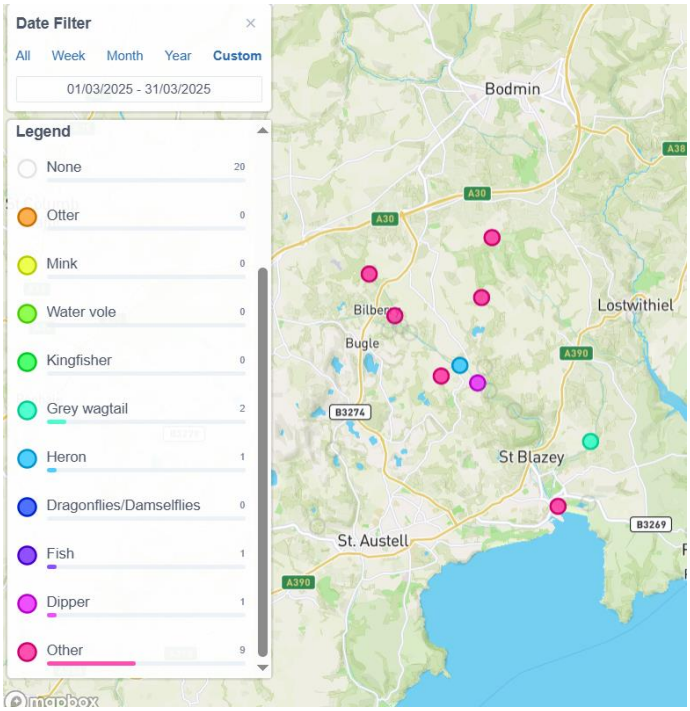
H. NITRATE AND NITRITE TESTS

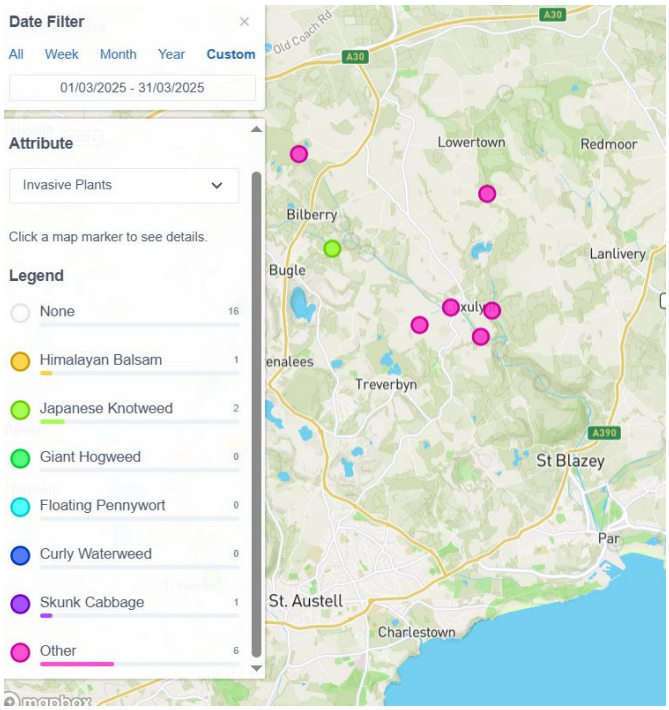
Simon Tagney tested for Nitrates and Nitrites at Polmear but the results were zero.

I. WILDLIFE & INVASIVE PLANTS

Evidence of otters is found nearly every month, but frequently it is not found at our monitoring points and when it is it will be entered under 'Other' because live sightings are extremely rare. However, in October, a combination of high river levels and a lack of time meant that no evidence was found. This does not mean that otters were not present.

Wildlife & Invasive Plants sightings at the monitoring points included:

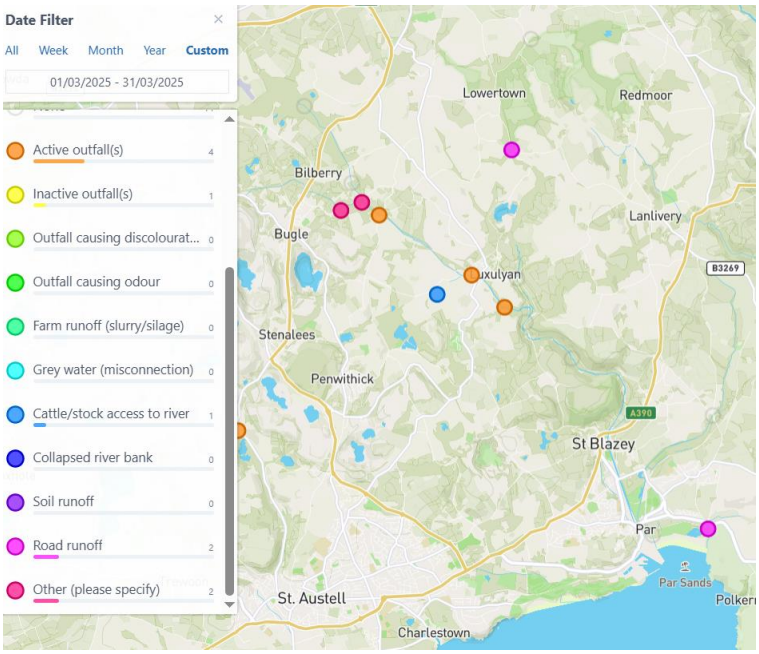




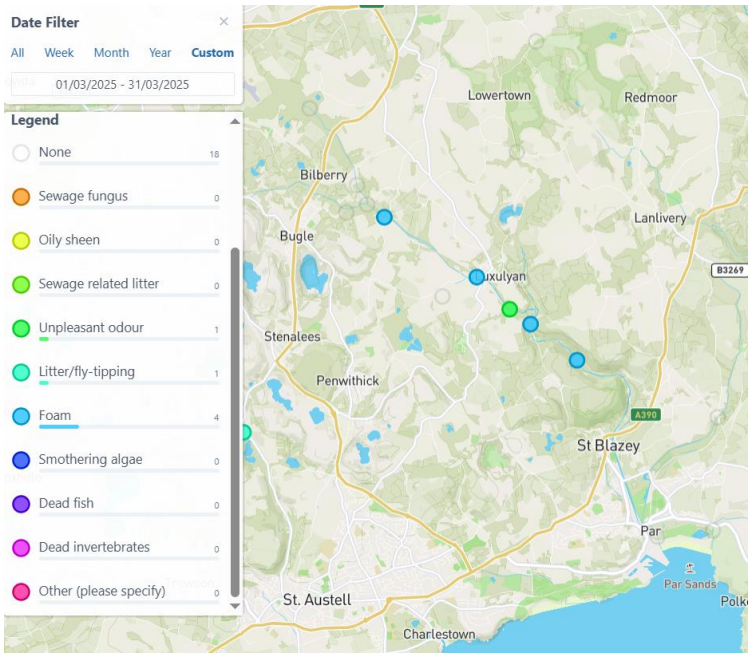
LOCATION	WILDLIFE NOTED	INVASIVE PLANTS NOTED
Criggan Moors, SX 01882 61133	**HEARD:** Reed Bunting, Robin, Chiffchaff, Goldfinch, Chaffinch, Coal Tit **SEEN:** None	Hemlock Water Dropwort
South of Minorca Lane, Par River, SX 02657 59788	**HEARD:** Robin, Blue Tit, Chaffinch, Wren **SEEN:** Deer tracks	None
Forkandles Farm, Molinnis Stream, SX 02460 59271	**HEARD:** None **SEEN:** None	Japanese Knotweed
Carbis Stream SX 02834 59401	**HEARD:** None **SEEN:** None	None
Lavrean, Par River SX 03134 59164	**HEARD:** None **SEEN:** None	None
Treskilling, Treskilling Stream, SX 04107 57726	**HEARD:** Carrion Crow, Robin **SEEN:** Canada Geese	Hemlock Water Dropwort
Luxulyan allotments, Par River, SX 04732 58045	**HEARD:** Blue Tit, Robin, Chaffinch, Greenfinch, Canada Goose, Carrion Crow **SEEN:** Heron, possible otter spraint	Hemlock Water Dropwort
Cam Bridges, Par River, SX 05292 57454	**HEARD:** Robin, Siskin, Blue Tit **SEEN:** Dipper	Hemlock Water Dropwort
Trebell Green, Bokiddick Stream SX 0551960226	**HEARD:** Robin, Blue Tit, Goldcrest, Goldfinch, Dunnock **SEEN:** Lake created by beaver dam and gnawed trees.	None
Corgee Moor, Bokiddick Stream SX 0593462167	**HEARD:** Blue Tit, Robin, Chaffinch, Wren **SEEN:** None	Hemlock Water Dropwort
Gatty's Bridge, Bokiddick Stream SX 05531 57953	**HEARD:** None **SEEN:** None	Hemlock Water Dropwort
Treffry Viaduct, Par River, SX 05650 57179	**HEARD:** None **SEEN:** None	None
Lady Rashleigh Mine, Par River, SX 06451 56509	**HEARD:** None **SEEN:** None	None
Treesmill, Tywardreath Stream, SX 08873 55385	Great Tit, Blue Tit, Coal Tit, Robin, Wren, Dunnock, House Sparrow, Chaffinch, Collared Dove, Jackdaw +	
Par Beach slipway, SX 0776 53261	Wader, Rook, Gull	None
Polmear Stream, Ship Inn, SX 08749 53417	**HEARD:** None **SEEN:** None	None

I. POLLUTION SOURCES AND EVIDENCE

1. Visible sources of pollution (source: Cartographer)



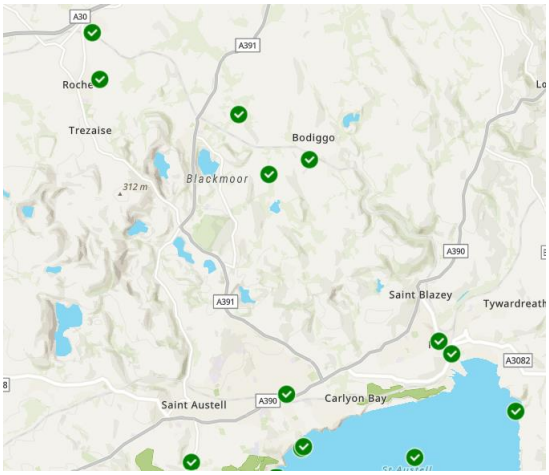
2. Recent evidence of pollution



LOCATION	POLLUTION
Criggan Moors, SX 01882 61133	None
South of Minorca Lane, Par River, SX 02657 59788	None
Forkandles Farm, Molinnis Stream, SX 02460 59271	None
Carbis Stream SX 02834 59401	None
Lavrean, Par River SX 03134 59164	Foam
Treskilling, Treskilling Stream, SX 04107 57726	None
Luxulyan allotments, Par River, SX 04732 58045	Foam
Cam Bridges, Par River, SX 05292 57454	Foam, smell
Trebell Green, Bokiddick Stream SX 0551960226	None
Corgee Moor, Bokiddick Stream SX 0593462167	None
Gatty's Bridge, Bokiddick Stream SX 05531 57953	None
Treffry Viaduct, Par River, SX 05650 57179	Foam
Lady Rashleigh Mine, Par River, SX 06451 56509	Foam
Treesmill, Tywardreath Stream, SX 08873 55385	None
Par Beach slipway, SX 0776 53261	None
Polmear Stream, Ship Inn, SX 08749 53417	None

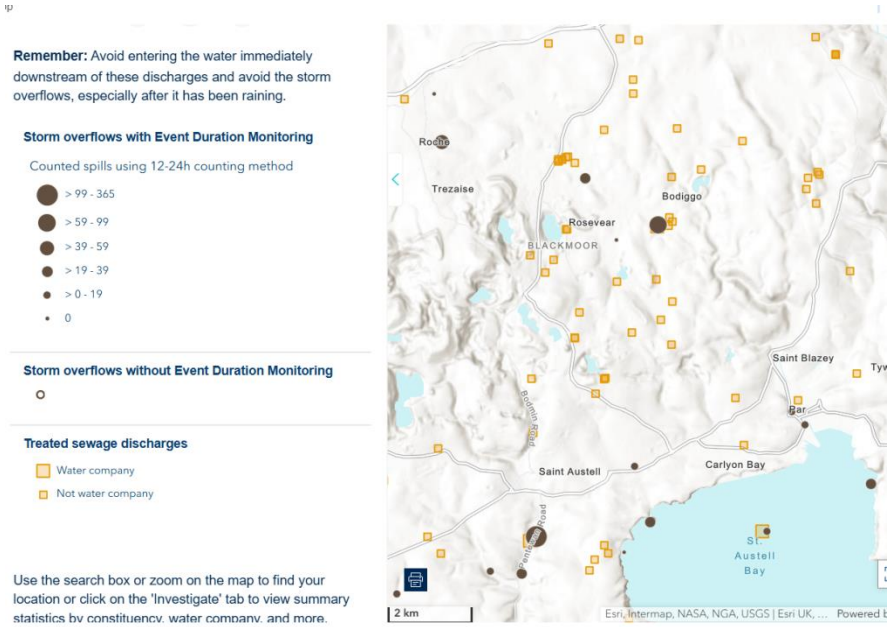
4. South West Water Storm Overflows

The Rivers Trust's sewage map (https://www.sewagemap.co.uk/) gives live information about discharges of sewage into rivers and the sea by water companies. (This is also provided by South West Water's WaterFit Live site: https://www.southwestwater.co.uk/storm-overflow-map).



This screenshot is for illustrative purposes only and does not show the situation in March. Not all of the locations are in the Par River catchment either.

It should be noted that there are also numerous private sewerage arrangements in the area but information about possible contamination of watercourses from these has not been found. The following screenshot shows the different facilities in the area (source: https://theriverstrust.org/key-issues/sewage-in-rivers)



(b) South West Water Storm Overflows in the Par River Catchment:

The main overflows are (from source to sea along the catchment):

- Roche storm overflow (SWW1001)
- Molinnis storm overflow, Bugle (SWW0765)
- Rescorla storm overflow, Luxulyan (SWW0987)
- Luxulyan sewage treatment works settled storm overflow, St Austell (SWW0694)
- Tredenham Close storm overflow, Par (SWW1230)
- Par No2 pumping station overflow, Par (SWW0519)

(c) SWW Storm Overflow spills

LOCATION/WATERCOURSE	SPILLS 2020	SPILLS 2021	SPILLS 2022	SPILLS 2023	SPILLS TARGET
Victoria pumping station overflow, Roche (SWW1266) Into Par River	41	26	42	59	39 (2030) 10 (2050)
Molinnis storm overflow, Bugle (SWW0765) Into tributary of Par River	28	38	7	38	8 (2030) 27 (2050)
Rescorla storm overflow, Luxulyan (SWW0987) Into 'Tributary of Par Sands (S)' [sic]	n/a	n/a	0	0	0 (2030) 0 (2050)
Luxulyan sewage treatment works settled storm overflow, St Austell (SWW0694) Into Par River	64	55	36	80	10 (2030) 8 (2050)
Tredenham Close storm overflow, Par (SWW1230) Into St Blazey stream	8	3	6	5	6 (2030) 6 (2050)
Par No2 pumping station overflow, Par (SWW0519) Into Par River	12	2	5	8	8 (2030) 8 (2050)

(d) SWW Storm Overflow spills March 2025:

N.B. These times have been taken from SWW's WaterFit Live Storm Overflows map. This table has been compiled in good faith but may contain errors so should not be relied on: it is indicative only.

LOCATION/WATERCOURSE	SPILLAGES	TOTAL SPILLAGE DURATION MARCH 2025
Victoria pumping station overflow, Roche (SWW1266) Into Par River	**0**	**0**
Molinnis storm overflow, Bugle (SWW0765) Into tributary of Par River	**0**	**0**
Rescorla storm overflow, Luxulyan (SWW0987) Into 'Tributary of Par Sands (S)' [sic]	**0**	**0**
Luxulyan sewage treatment works settled storm overflow, St Austell (SWW0694) Into Par River	Started: 23 Feb 2025 11:25 Stopped: 2nd Mar 2025 12:08 **Duration in March: 36 hours 8 minutes.**	**36 hours 8 minutes.**

Tredenham Close storm overflow, Par (SWW1230) Into St Blazey stream	**0**	**0**
Par No2 pumping station overflow, Par (SWW0519) Into Par River	**0**	**0**

K. OUR GROUP AND SUPPORTERS

Monitoring is part of the Citizen Science programme run by the West Country Rivers Trust (WCRT) and is carried out monthly by volunteers, including Joan Farmer; Veronica Jones; Roger Smith; Simon Tagney; Maggie Tagney; and Brian Harrisson. They have received training from Lydia Ashworth, Junior Evidence and Engagement Officer of the West Country Rivers Trust (https://wrt.org.uk/project/become-a-citizen-scientist/). Results are logged on the Cartographer website. The support and advice given by Ross Tonkin, Lloyd Paynter, David Edwards, Claire and Gary Phillips, Jenny Heskett, Nick Taylor, Jeremy Roberts, Mat Bateman, Colin Pringle, Matt Healey, Simon Browning, Lydia Deacon, Jack Middleton, Anna Seal, Anna Crane, Zoe Connelly, Jade Neville, Lauren Jasper and Callum Lewis is greatly appreciated. The work carried out by the late Dave Burrell both in the field and in checking reports will not be forgotten. The interest and encouragement offered by Environment Agency officers, especially Lisa Best, Lisa Goodall, Layla Ousley, Jenny Davies, Leah Steward, Nicola Rogers and Peter Scobie, have been invaluable.

Report compiled by Roger Smith, 1st May 2025