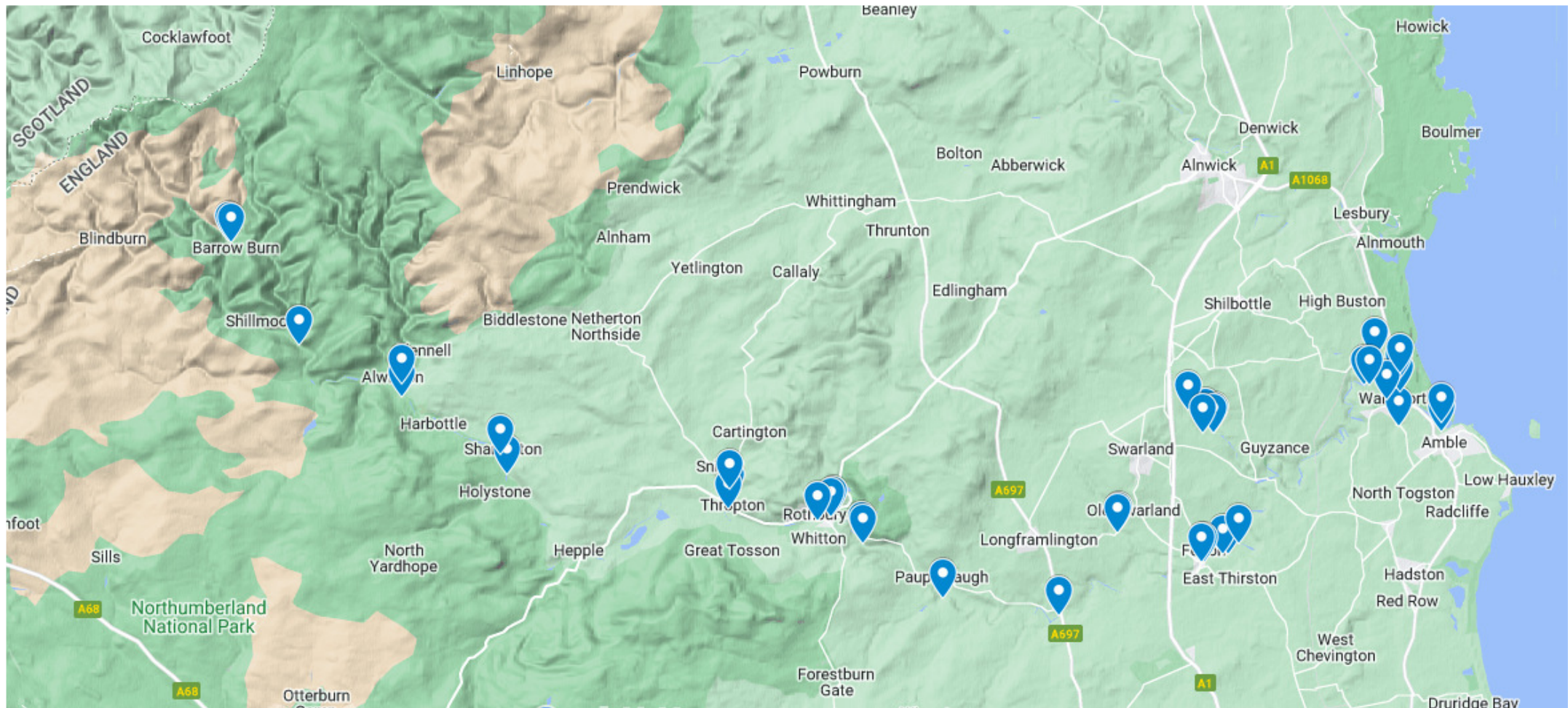




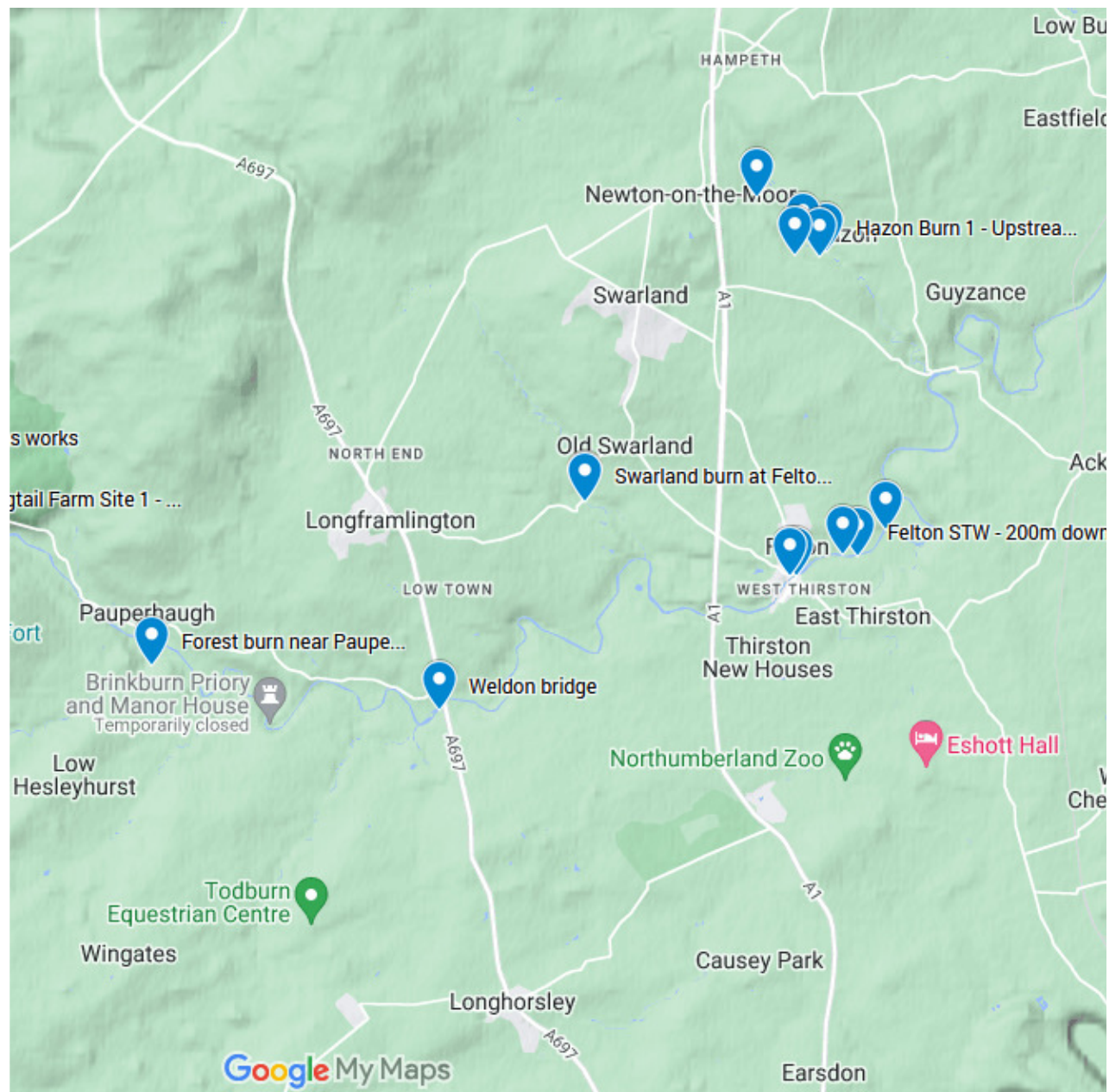
Coquet River Action Group

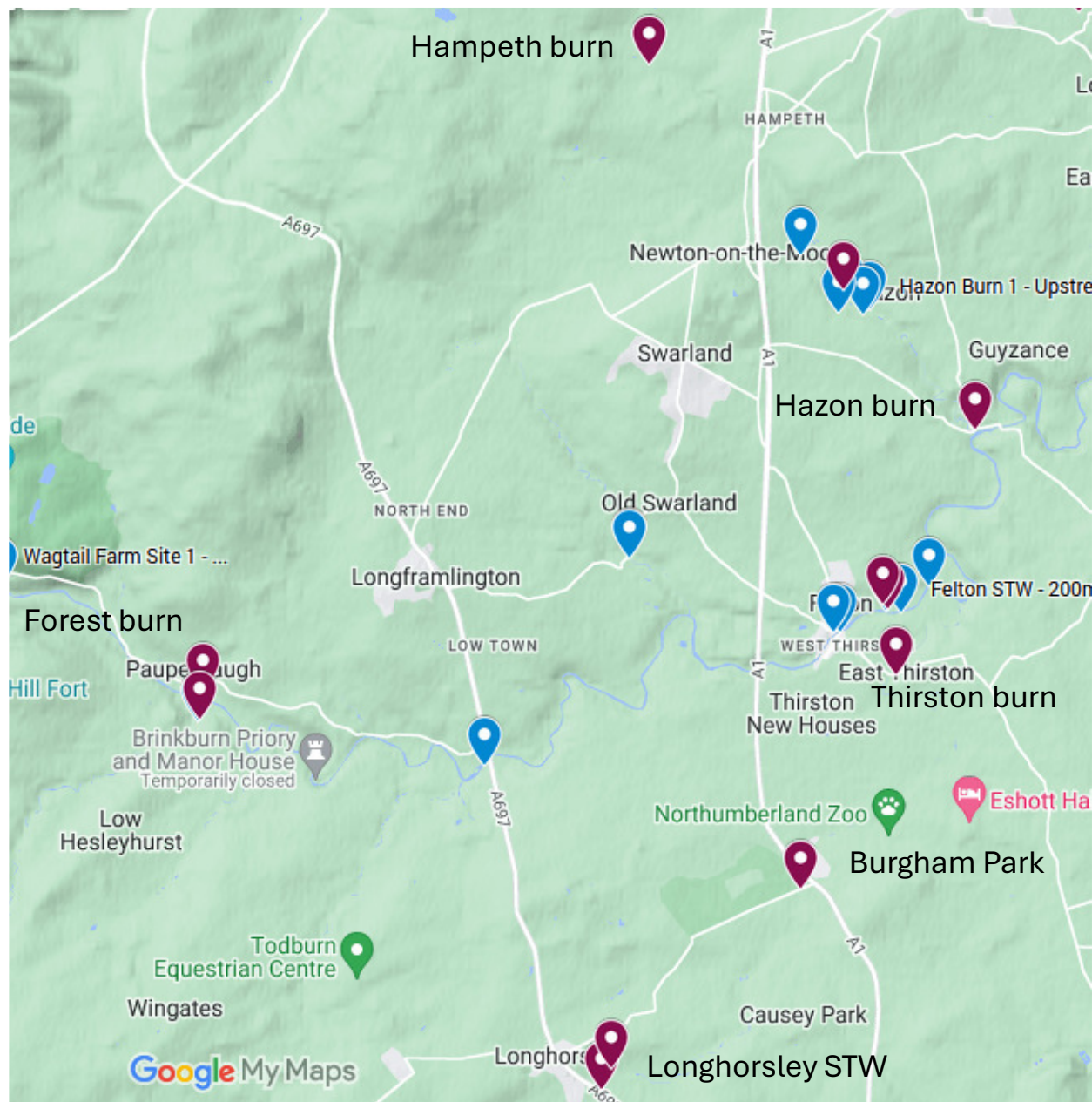


CRAG – where our groups are testing



Brinkburn, Swarland and Felton testing sites



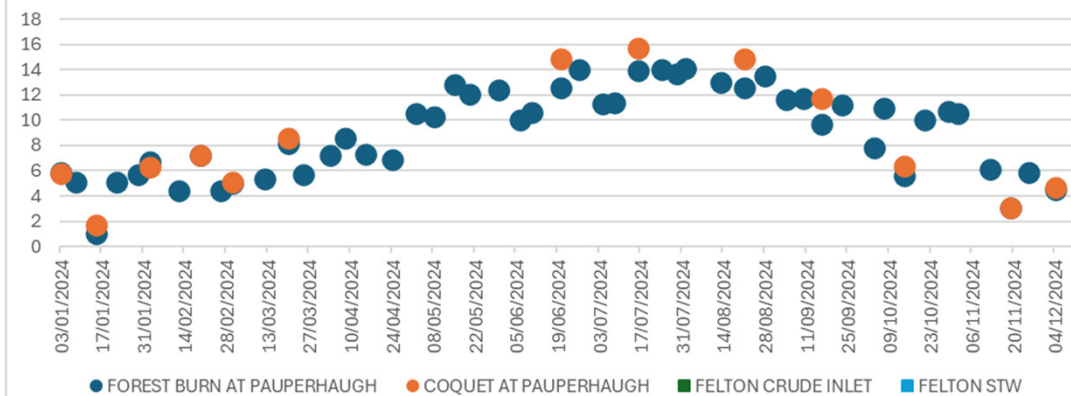


Environment Agency
have also tested
during 2024

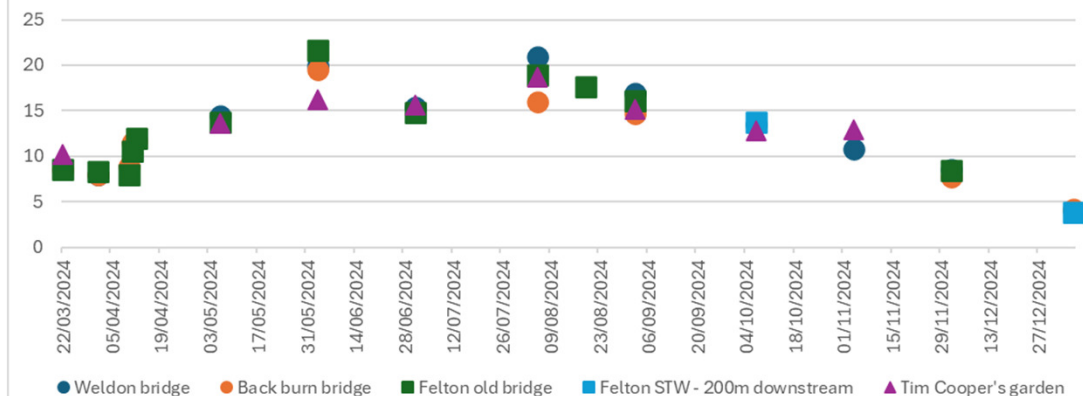
Temperature

- Possibly slightly higher temperatures in main river than in tributaries

Environment Agency - Brinkburn and Felton



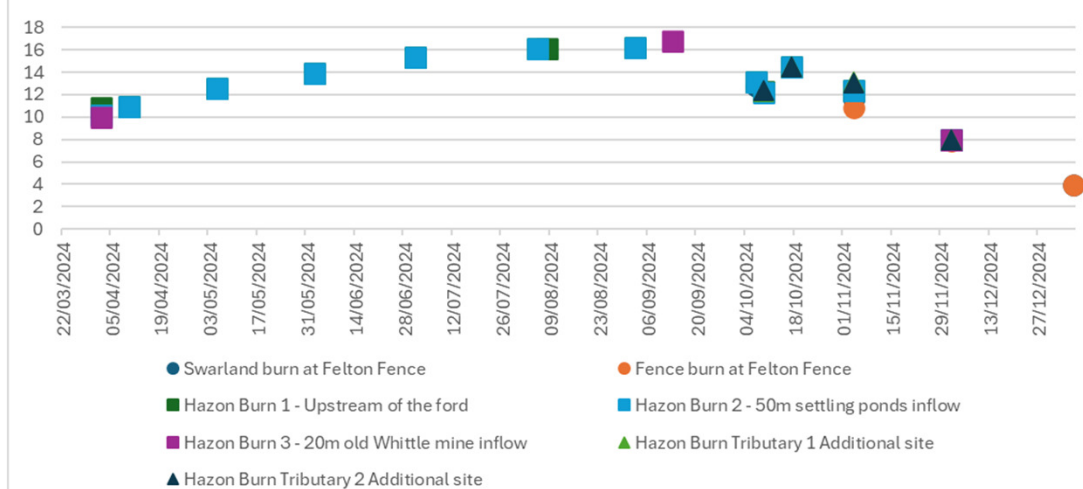
CRAG members - Brinkburn and Felton



Environment Agency - Thirston burn and Hazon burn



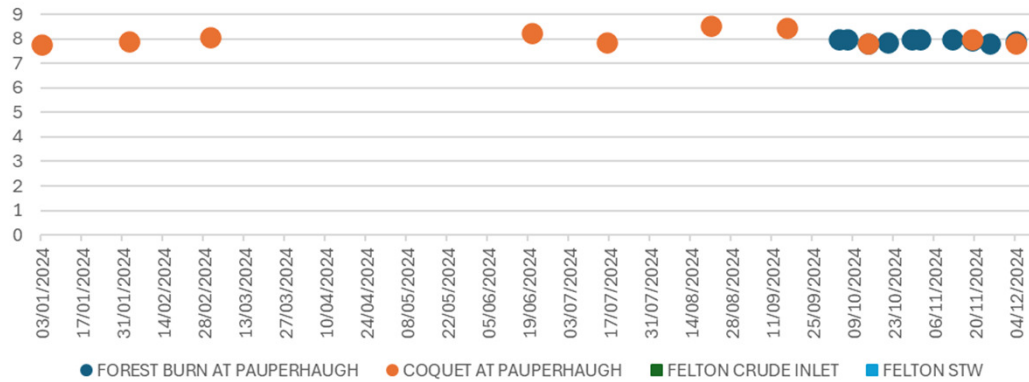
CRAG members - Swarland burn and Hazon burn



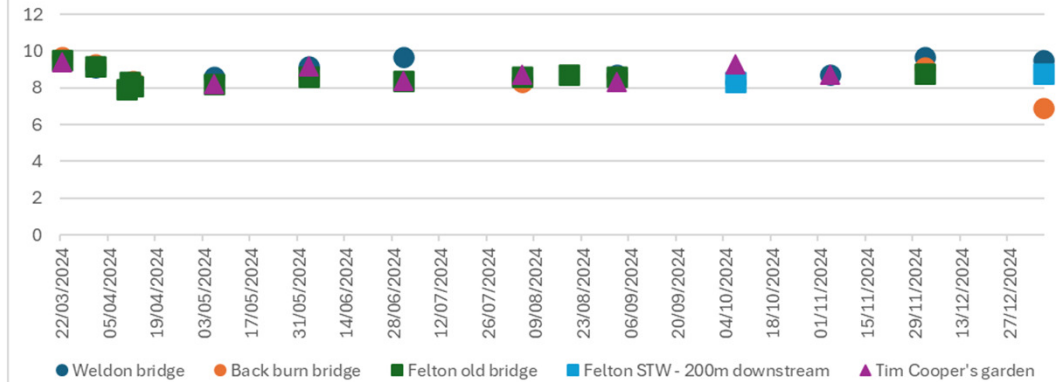
pH

- Some moderate (pH = 6 - 7) (Hampeth burn)
- In Shilbottle we see low pH from mine outflow. But not so on Hazon burn.

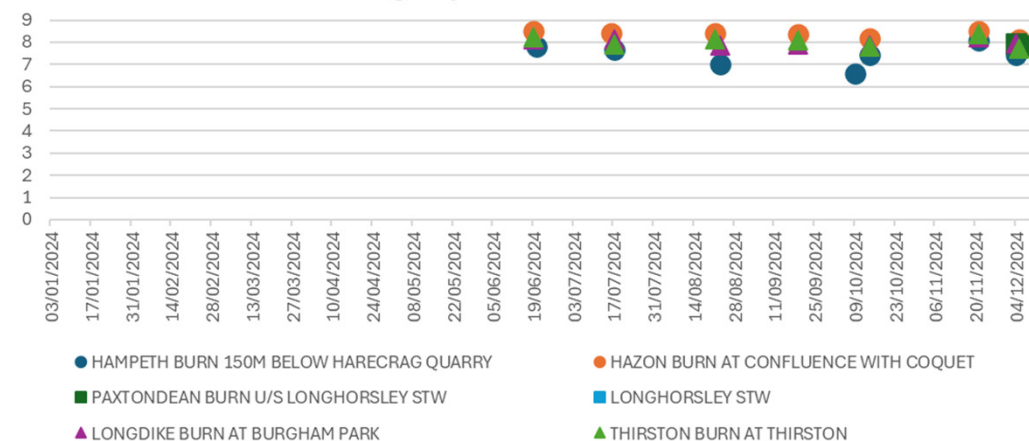
Environment Agency - Brinkburn and Felton



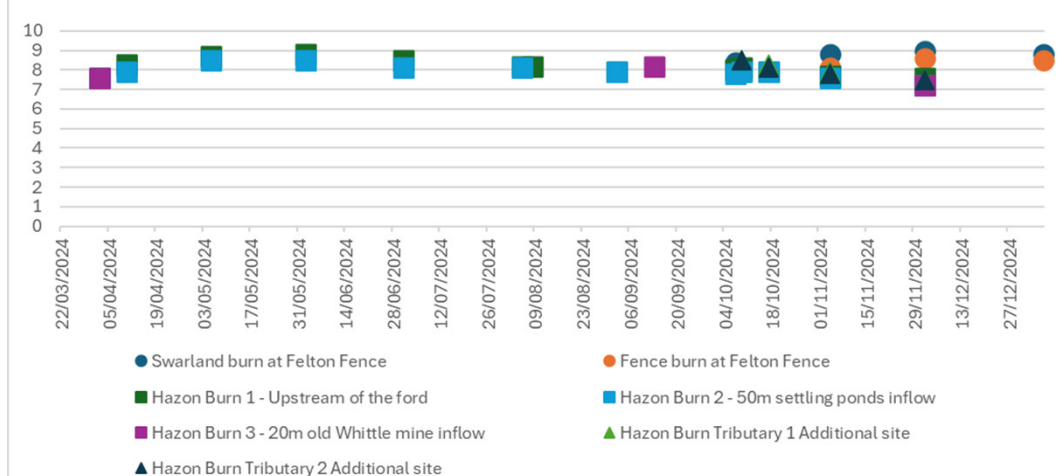
CRAG members - Brinkburn and Felton



Environment Agency - Thirston burn and Hazon burn



CRAG members - Swarland burn and Hazon burn

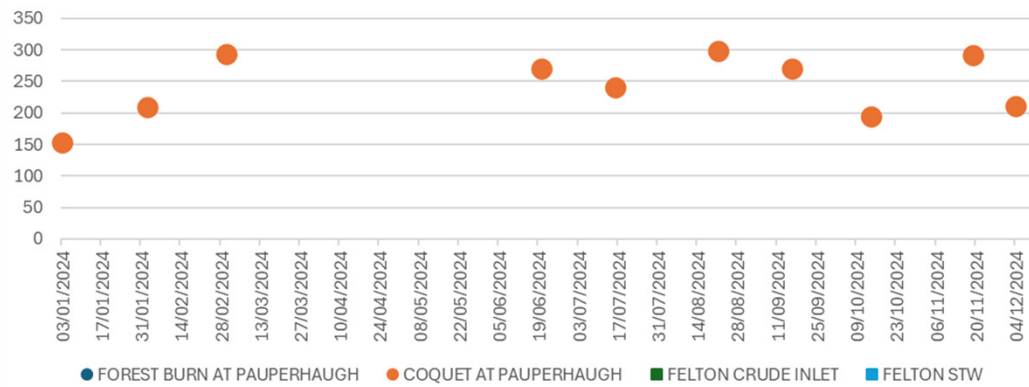




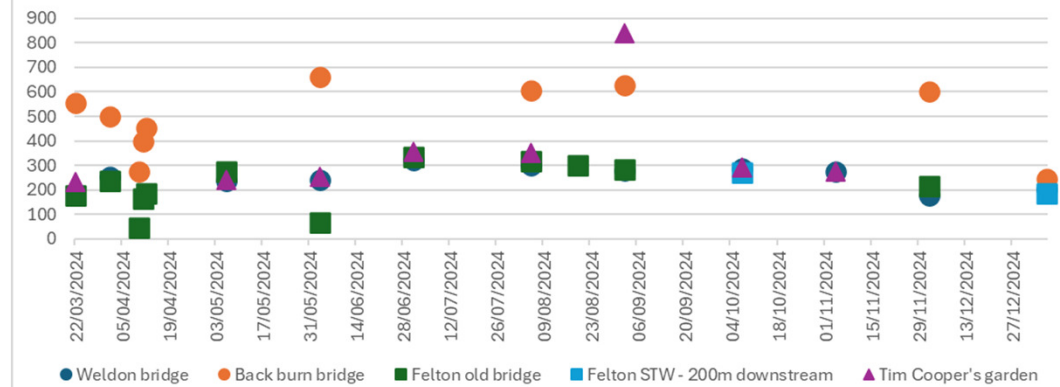
Electroconductivity

- The amount of dissolved minerals
- Alwinton ~ 80, Warkworth ~ 300

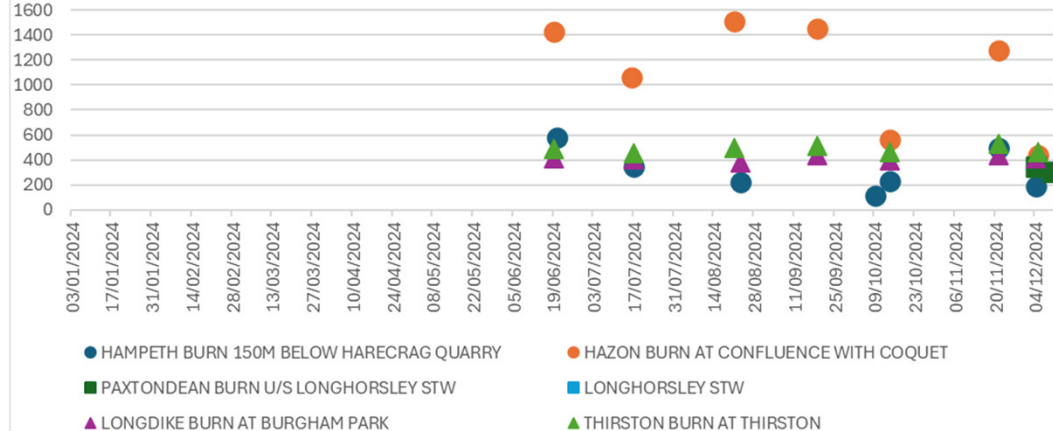
Environment Agency - Brinkburn and Felton



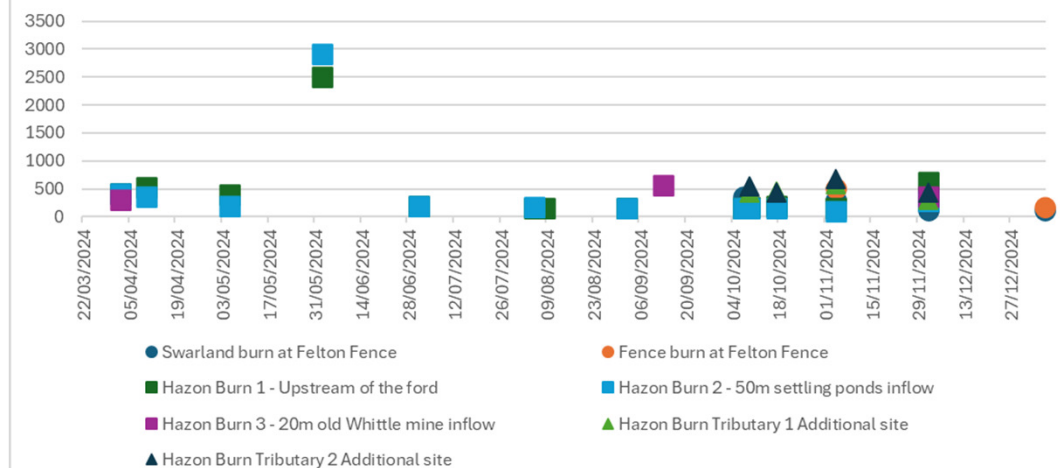
CRAG members - Brinkburn and Felton



Environment Agency - Thirston burn and Hazon burn

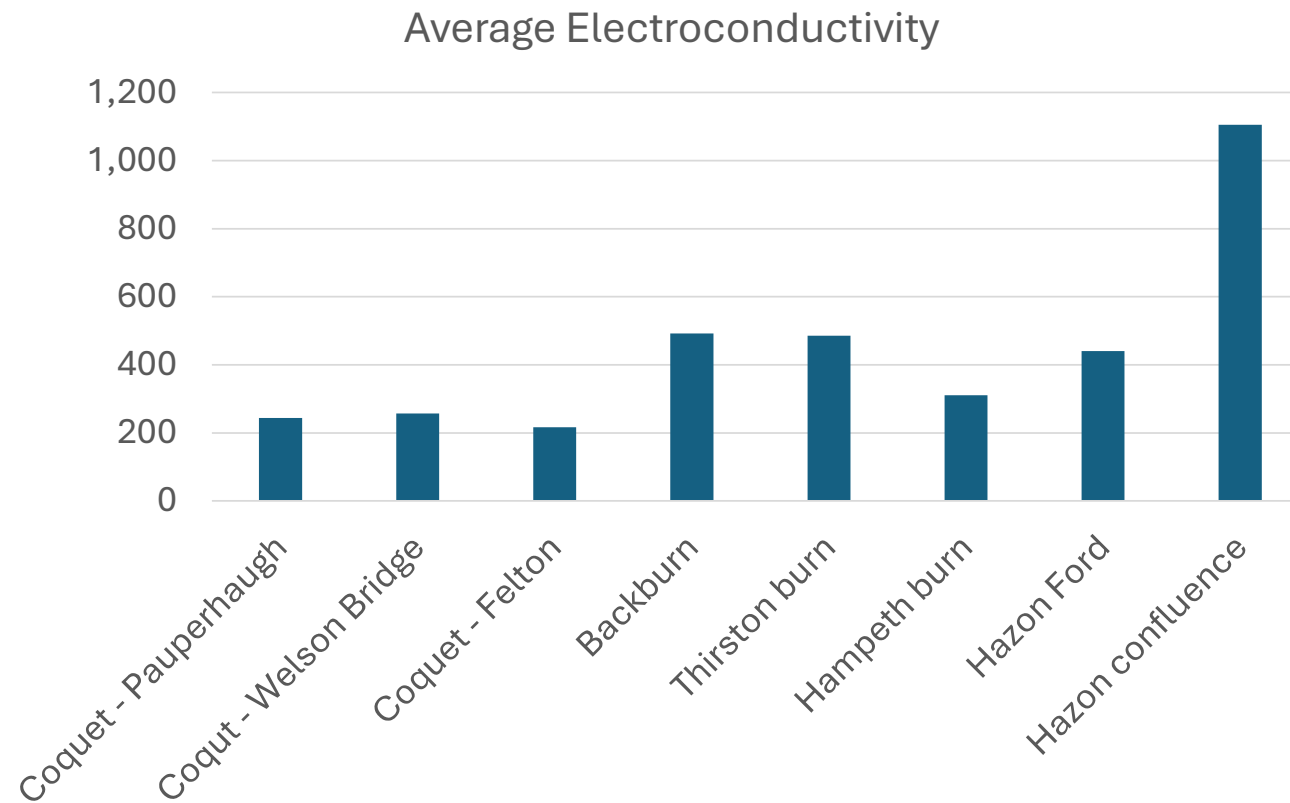


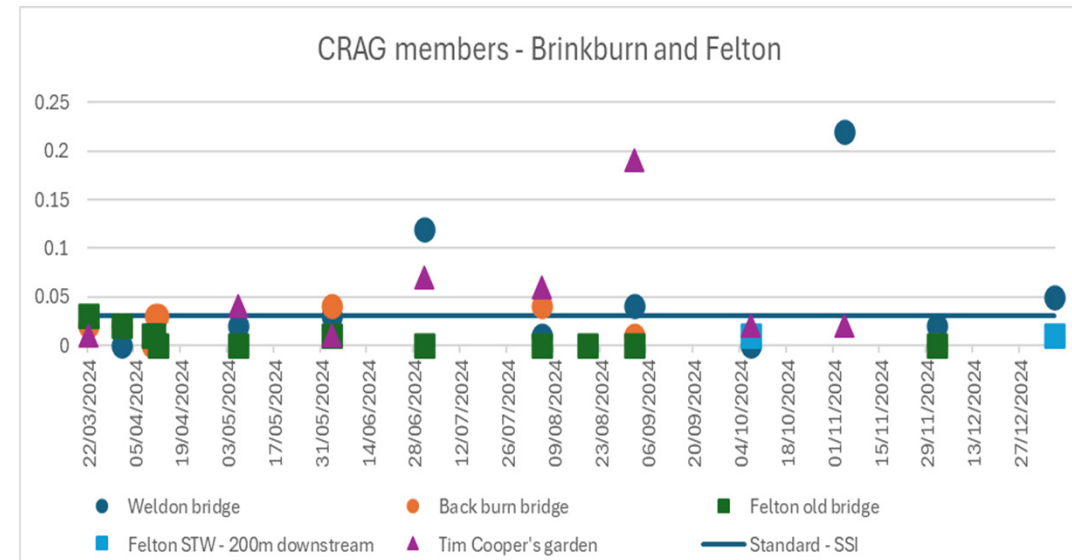
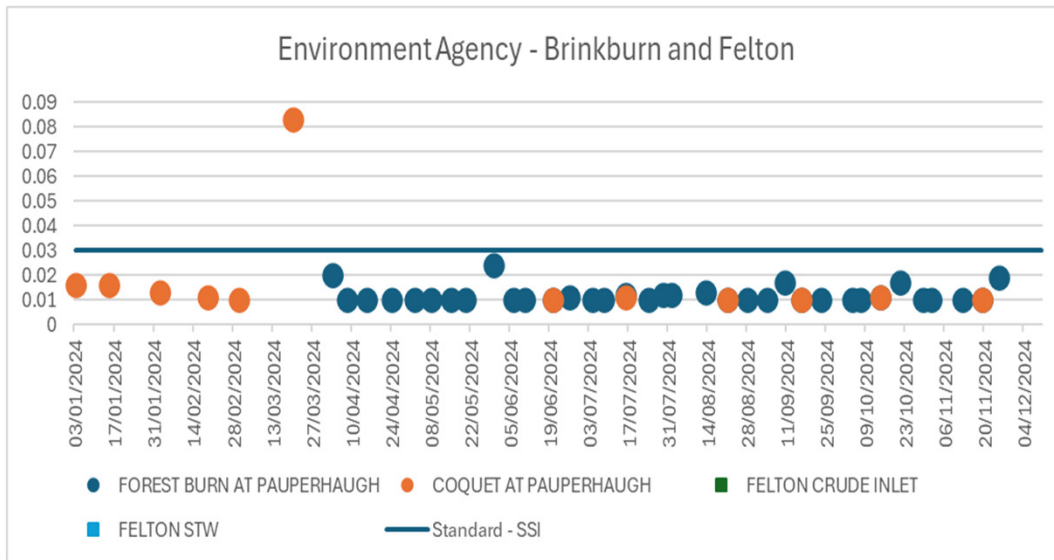
CRAG members - Swarland burn and Hazon burn



Results show:

- Main river ~ 200
- Back burn and Thirston burn ~ 500
- Increase in EC in Hazon burn as water flows from source to confluence



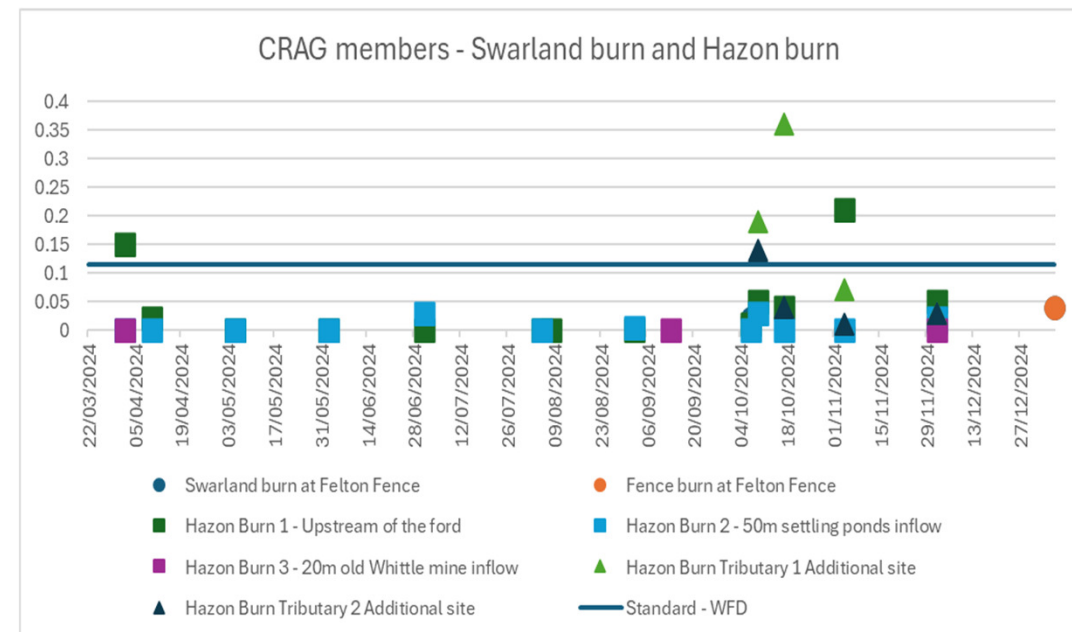
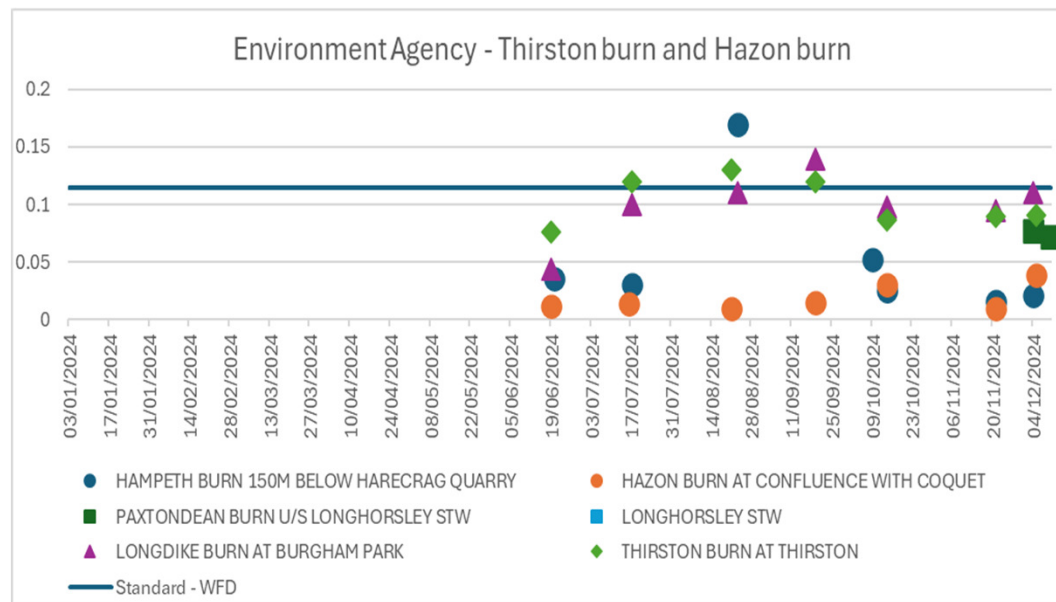


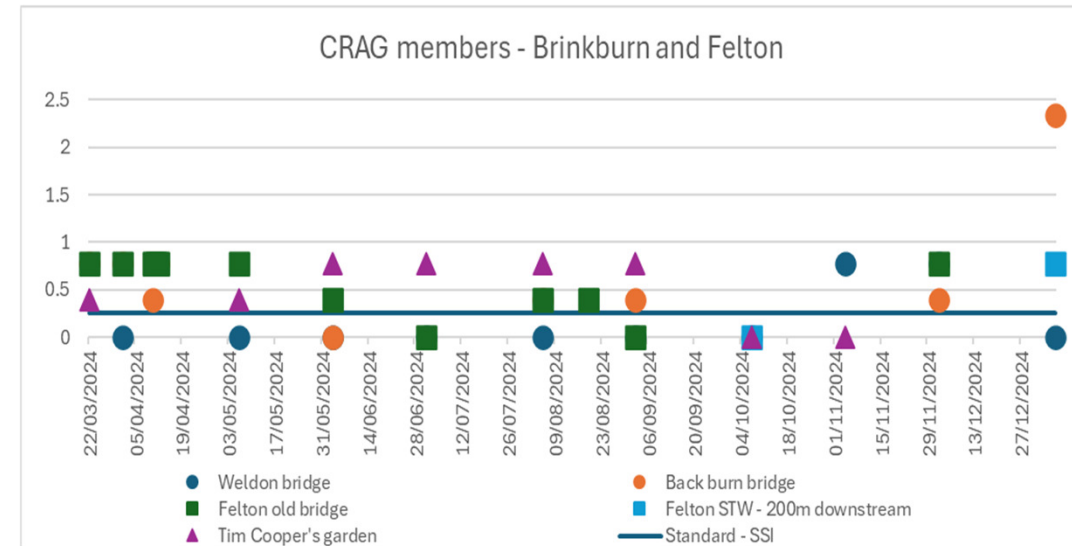
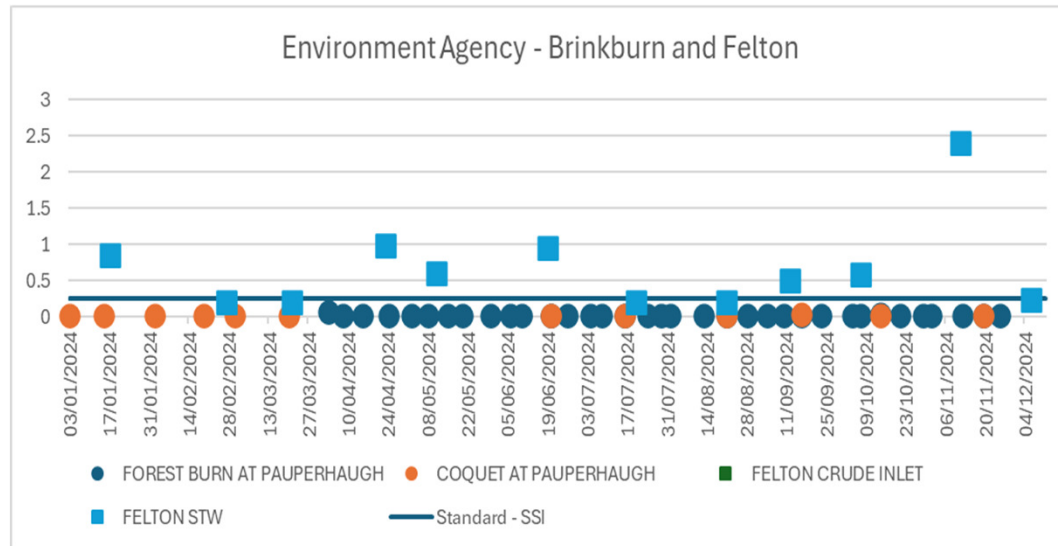
Orthophosphate as P – Main river

- Main river (SSSI) – standard 0.03 mg/L; tributaries (not SSSI) – standard 0.115 mg/L
- EA – Coquet at Pauperhaugh
- CRAG – Weldon Bridge (triangles) and Mouldshaugh (circles)

Orthophosphate as P - Tributaries

- Main river (SSSI) – standard 0.03 mg/L; tributaries (not SSSI) – standard 0.115 mg/L
- EA – Hampeth burn (circles), Longdyke burn (triangles), Thirston burn (diamonds)
- CRAG – Hazon burn tributaries (triangles), Hazon Ford (squares)



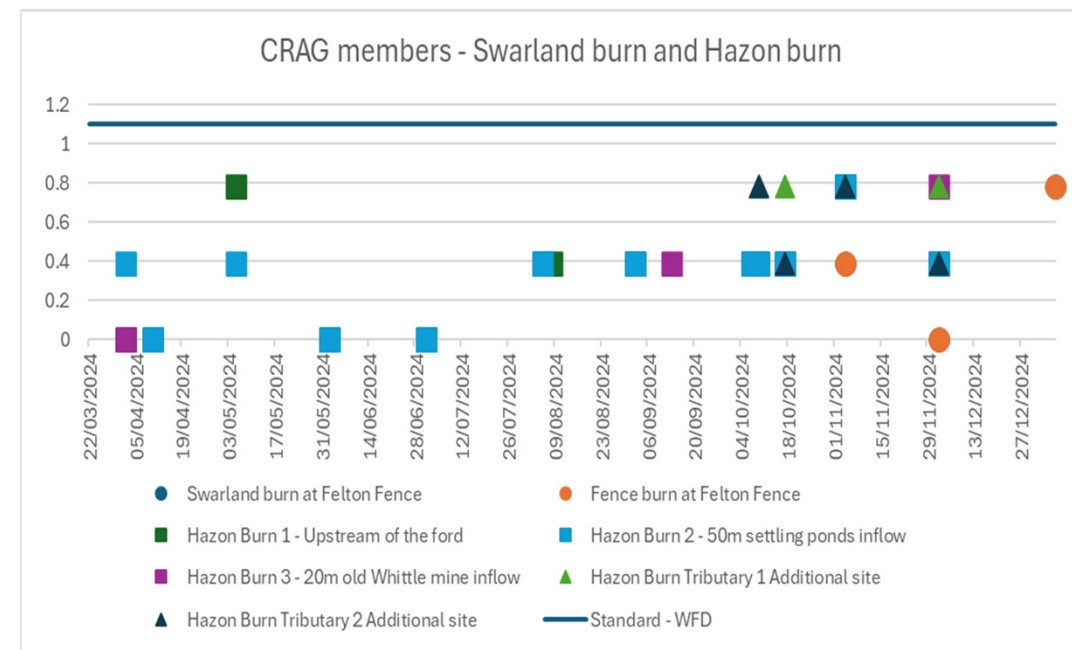
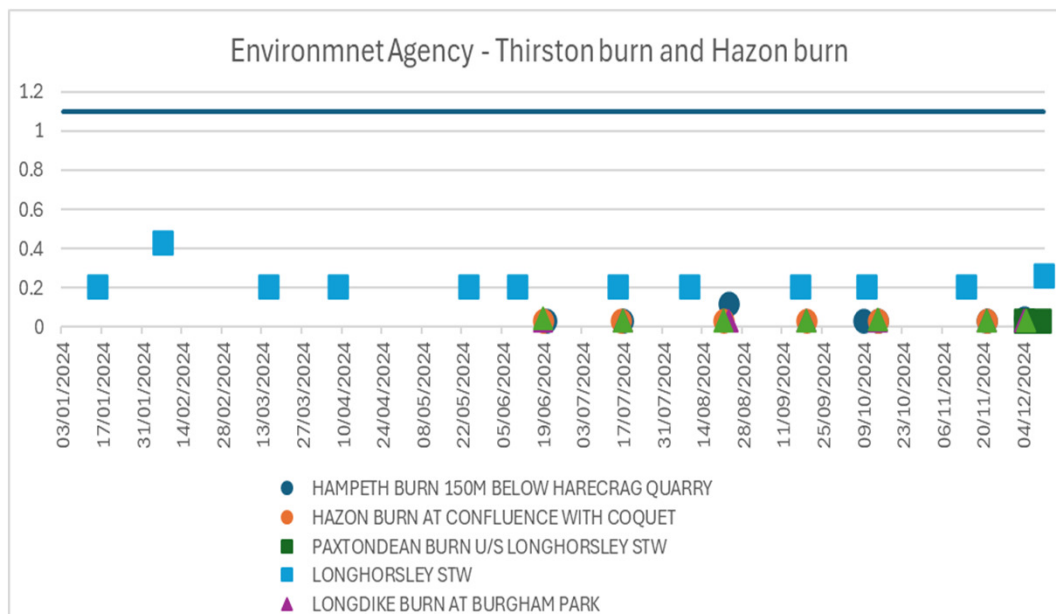


Ammonia as N – Main river

- Main river (SSSI) – standard 0.25 mg/L; tributaries (not SSSI) – standard 1.1 mg/L
- EA – Felton STW (squares)
- CRAG – Felton old bridge (green squares), Moldshaugh (triangles), Back burn (orange circles)

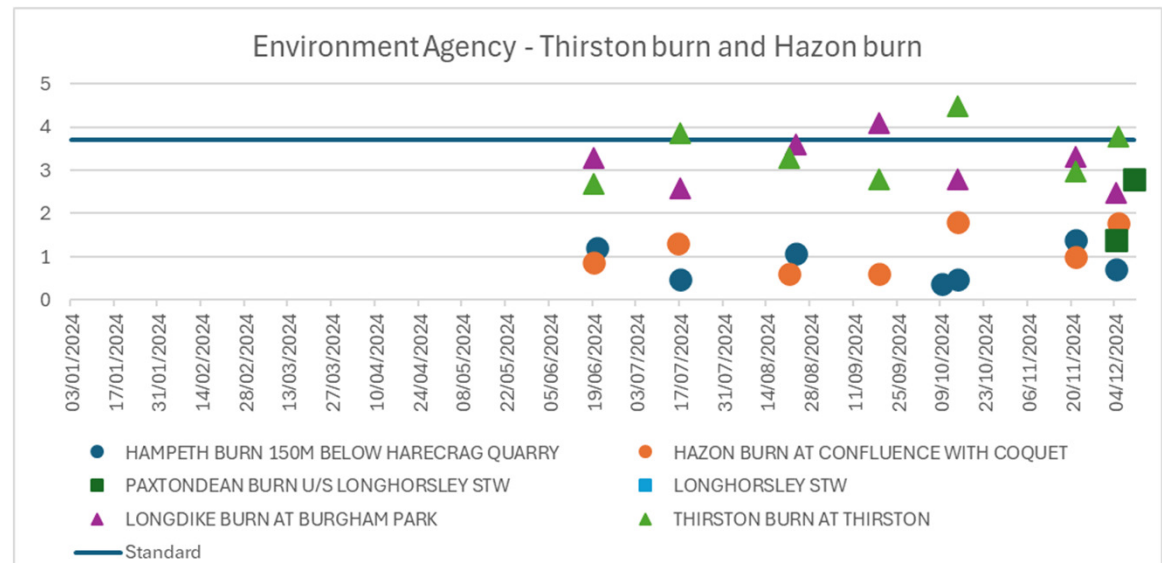
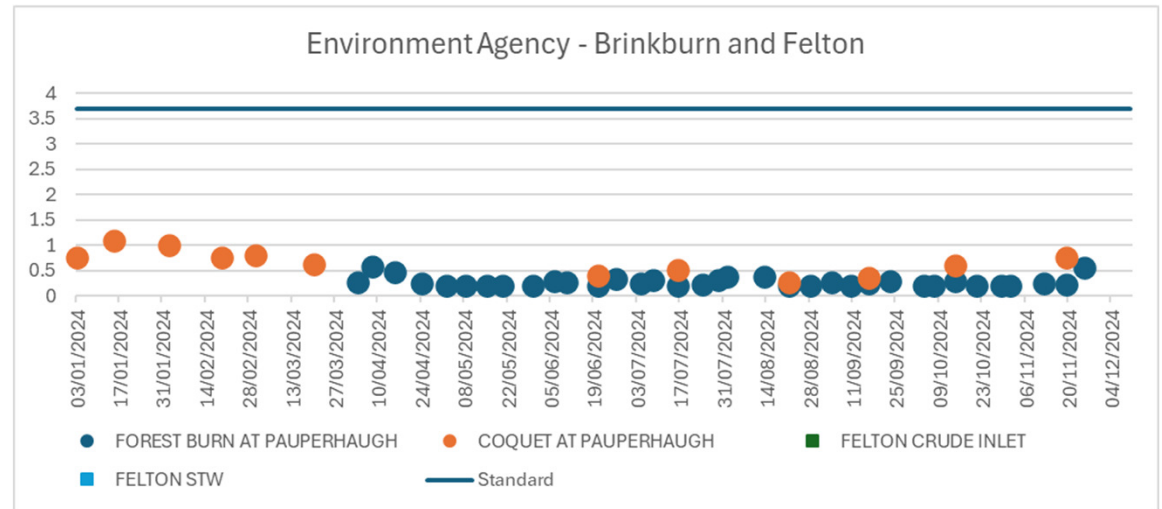
Ammonia as N - Tributaries

- Main river (SSSI) – standard 0.25 mg/L; tributaries (not SSSI) – standard 1.1 mg/L
- All values below WFD standard



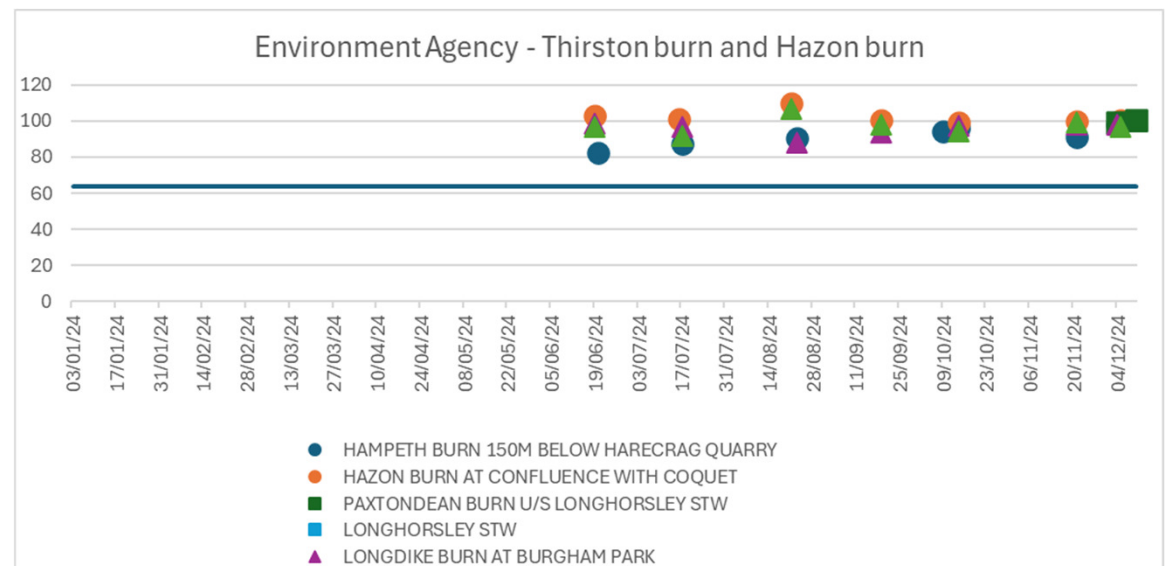
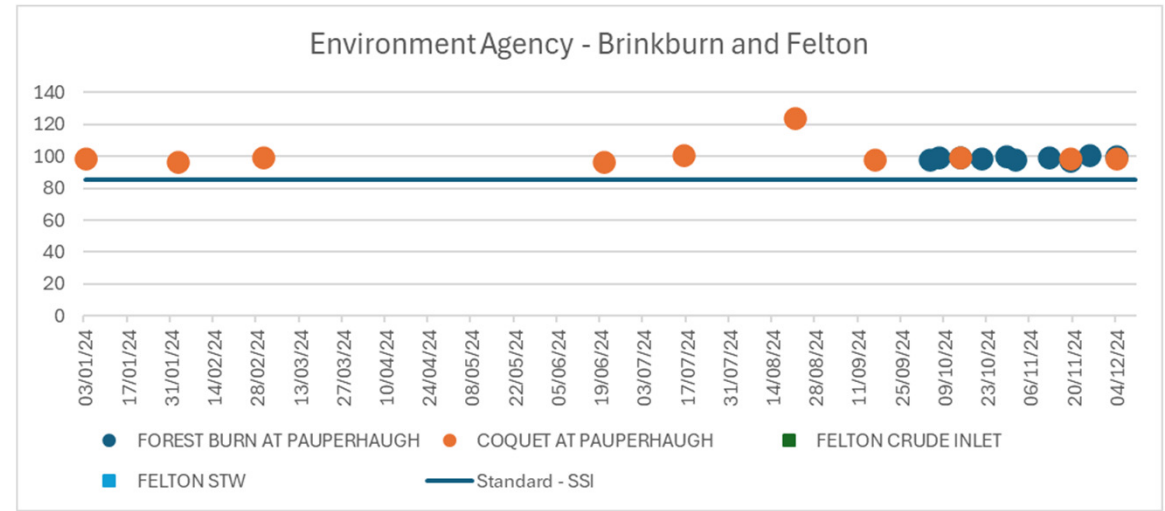
Nitrate as N

- Standard – 3.7 mg/L
- Nitrate levels in the main river okay
- Thirston and Longdyke burns (triangles)



Oxygen – Dissolved oxygen %

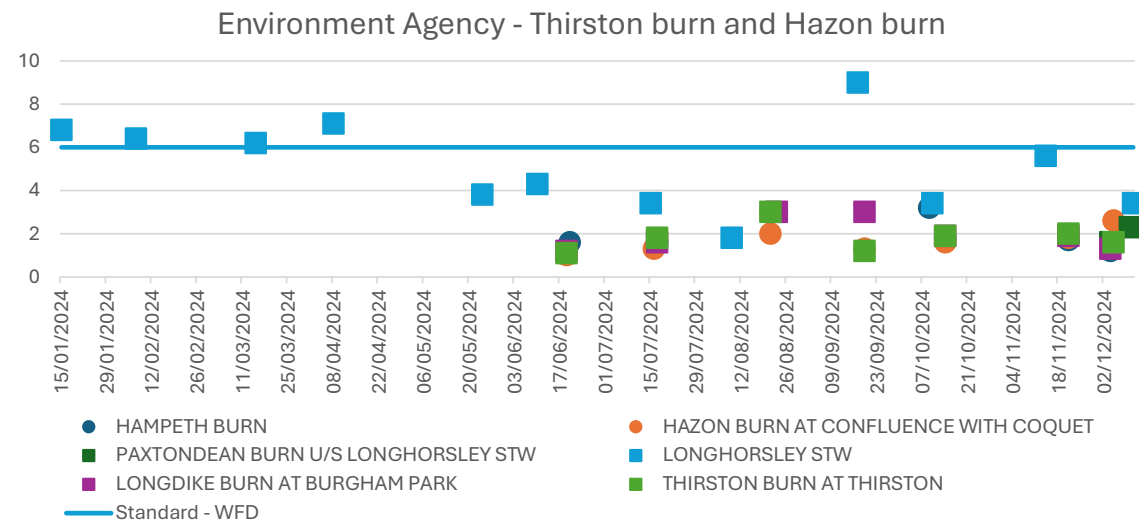
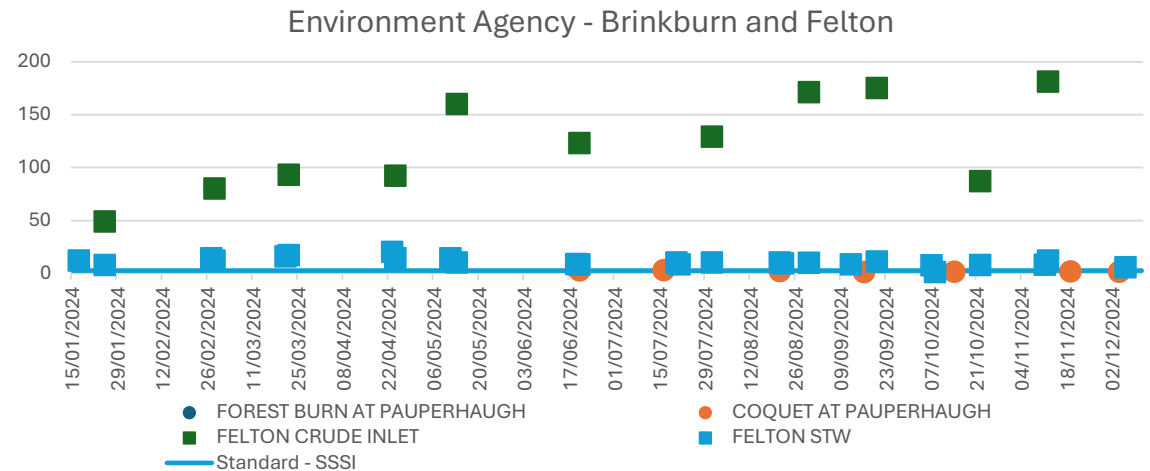
- A high value is good
- Standards are:
 - main river (SSSI) = 85%;
 - tributaries (WFD) = 64%
- Oxygen levels are good, lowest % are Hampeth and Thirston burns



Oxygen – Biological oxygen demand (BOD)

- A low value is good
- Standards are:
 - main river (SSSI) = 2.4 mg/L
 - tributaries (WFD) = 6 mg/L
- STW's have high BOD, especially Felton STW

Treated sewage still has high levels of nutrients



Summary of chemical measurements

Point sources for poor quality water are:

- Felton STW – ammonia, BOD (and possibly phosphate (Moldshaugh))
- Other STW's have high BOD

Water bodies with problems:

- Thirston and Longdyke burns – phosphate and nitrate (agricultural run-off or Longhorsley STW?)
- Hampeth and Hazon burns – phosphate (agricultural run-off or Hampeth STW?)

Storm Overflows Map

Search



Symbols



Bathing Water



Outfall



Storm Overflow

Spill Status



No Recent Spill



Recent Spill



Spilling



Unavailable

Outfall Filter



No Recent Spill



Recent Spill



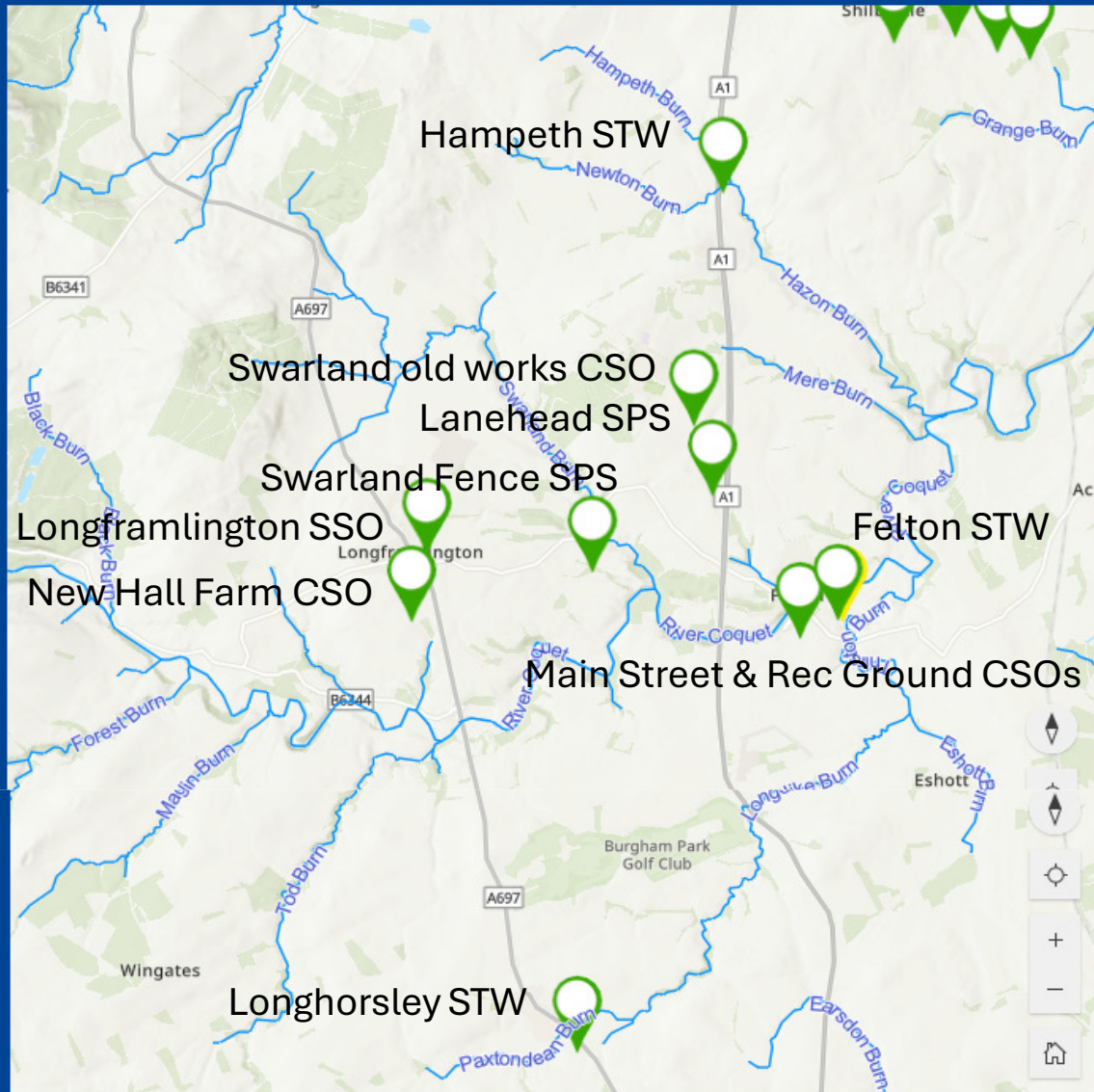
Recent Spill



Spilling



Unavailable



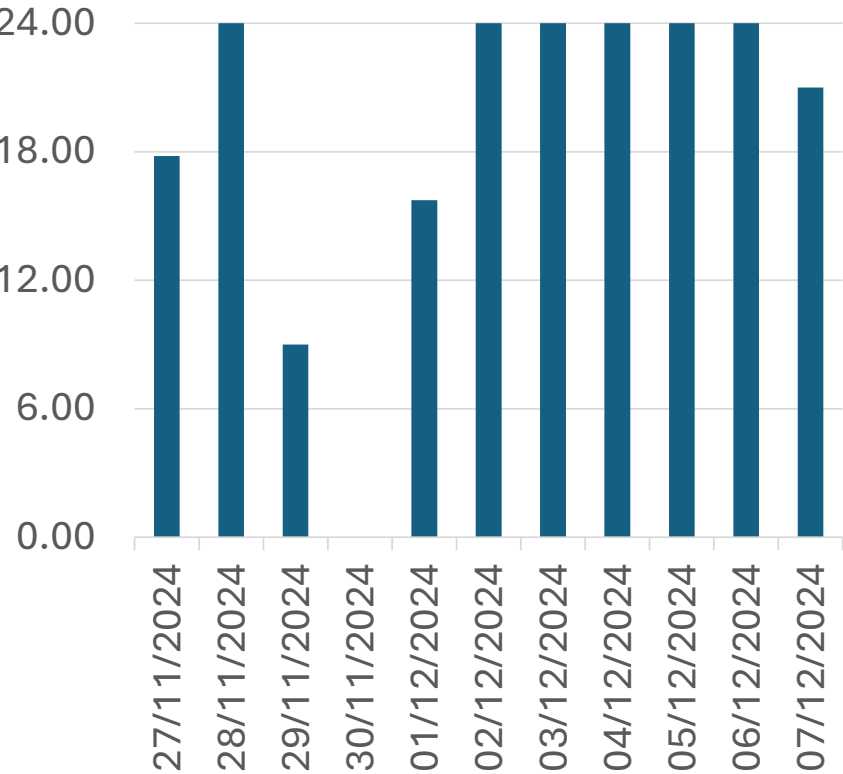
SPS	Sewage Pumping Station
SSO	Sanitary Sewage Overflow
CSO	Combined Sewage Overflow
STW	Sewage Treatment Works

Sewage discharges in 2023

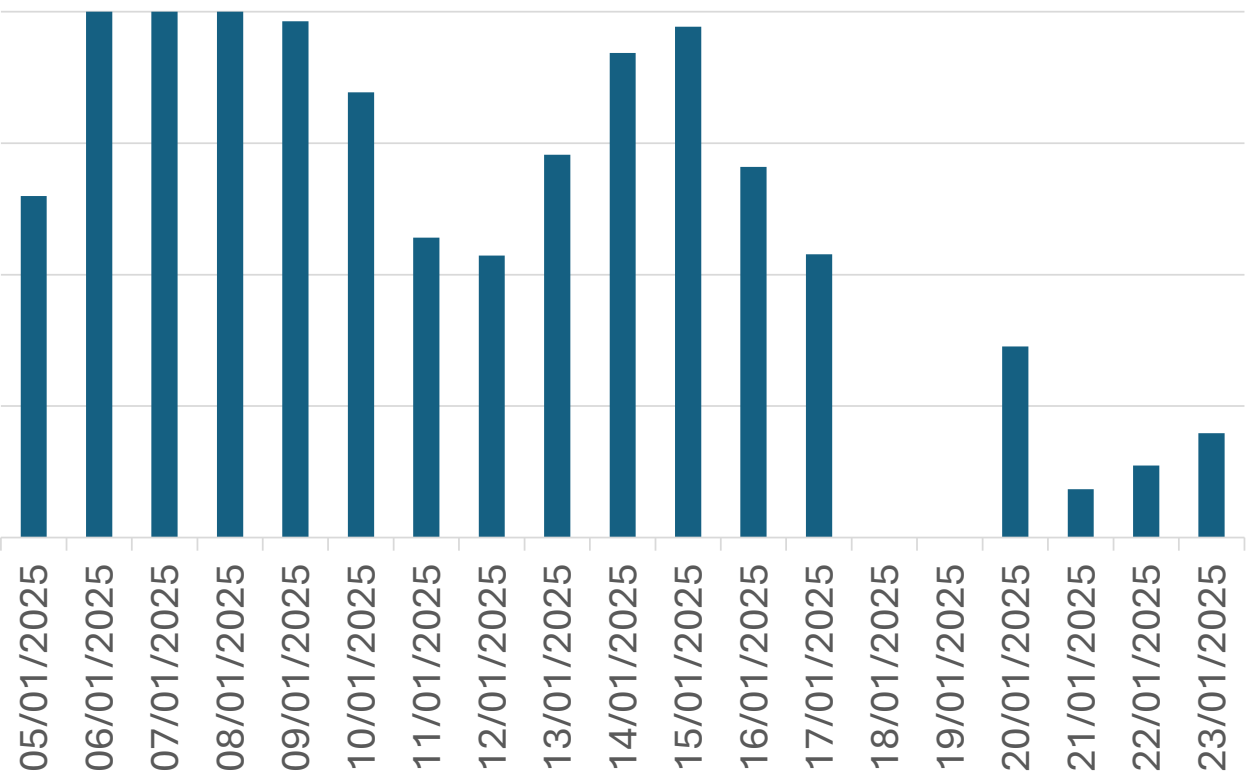
Site name (EA)	Spills	Total discharge hours	Average hours per spill
WHITTLE COLLIERY VILLAGE (HAMPETH) STW	28	459.1	16.4
SWARLAND OLD SEWAGE WORKS CSO	37	315.5	8.5
LANEHEAD PUMPING STATION	57	801.1	14.1
LONGFRAMLINGTON SSO	36	190.0	5.3
NEW HALL FARM CSO	12	25.0	2.1
SWARLAND FENCE PUMPING STATION	95	757.1	8.0
FELTON RECREATION GROUND CSO	60	142.0	2.4
MAIN STREET CSO	10	5.5	0.6
FELTON STW	88	1,243.0	14.1
LONGHORSLEY STW	74	1,344.2	18.2

Daily sewage discharge from Felton STW

Hours spilling



Hours spilling



Review of water quality testing strategy:

- Testing on the Thirston, Longdyke and Paxtondean burns
- More nitrate tests on burns draining agricultural land (need to particularly tests before and after fertilizer application)
- Close eye on Felton STW during works

CRAG future plans:

- E. coli testing (we need a local volunteer to sort logistics)
- Riverfly monitoring (we need a local volunteer to organise event)
- Invasive weeds survey and removal (we need a local volunteer to sort logistics)

Other possible opportunities:

- Bathing water status application for Amble
- Mink raft surveying with the Northumberland Wildlife Trust