

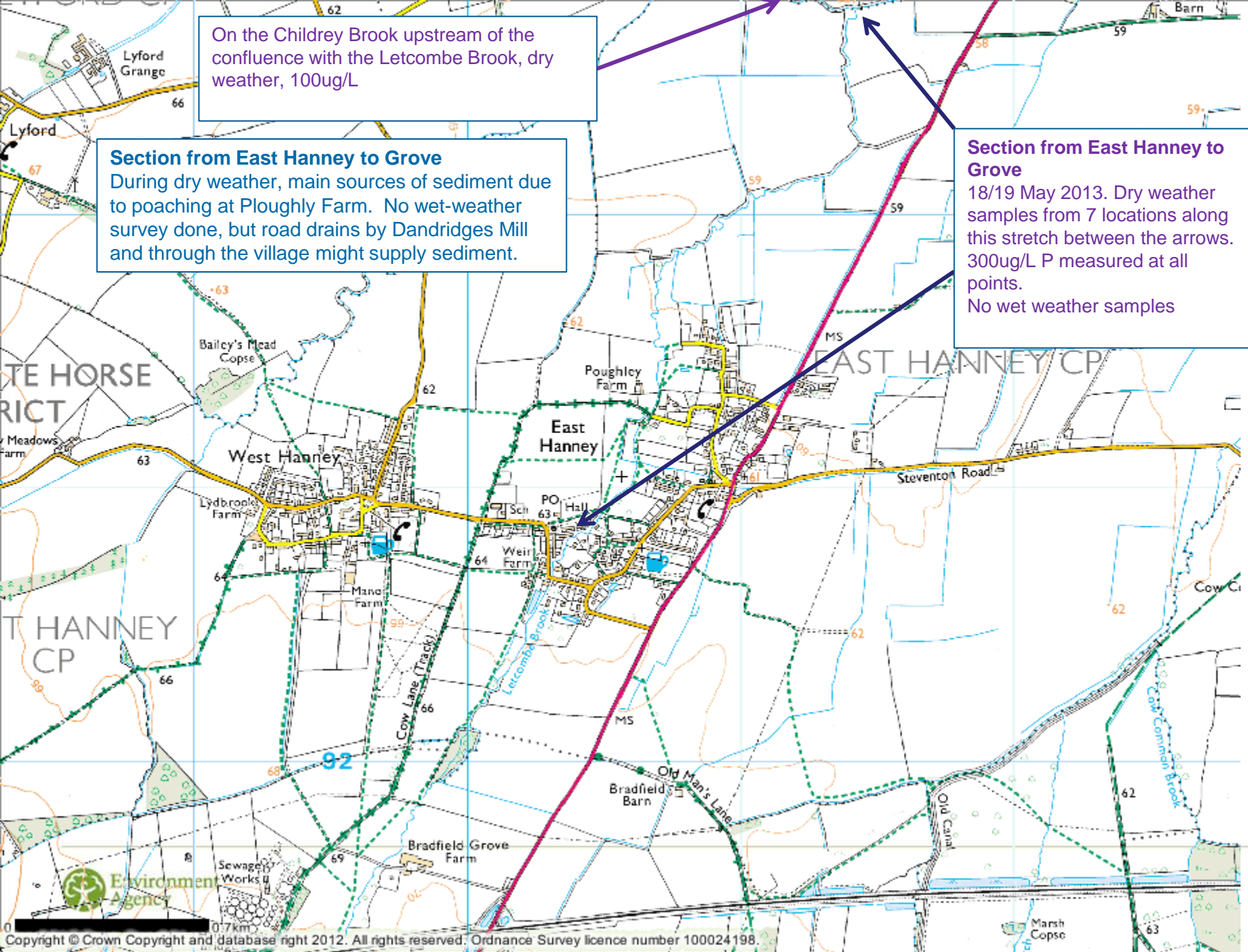
On the Childrey Brook upstream of the confluence with the Letcombe Brook, dry weather, 100ug/L

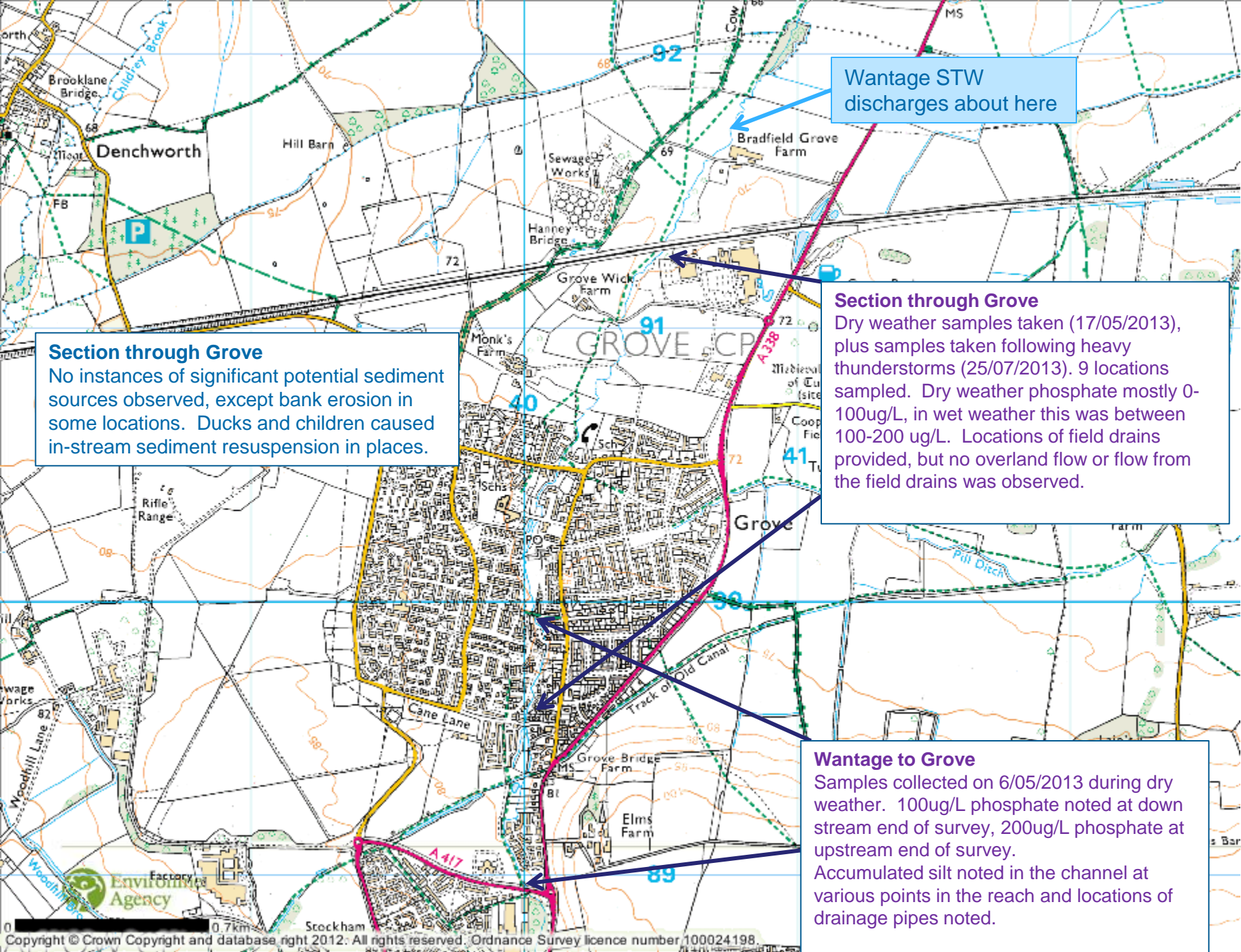
### Section from East Hanney to Grove

During dry weather, main sources of sediment due to poaching at Ploughly Farm. No wet-weather survey done, but road drains by Dandridges Mill and through the village might supply sediment.

### Section from East Hanney to Grove

18/19 May 2013. Dry weather samples from 7 locations along this stretch between the arrows. 300ug/L P measured at all points. No wet weather samples





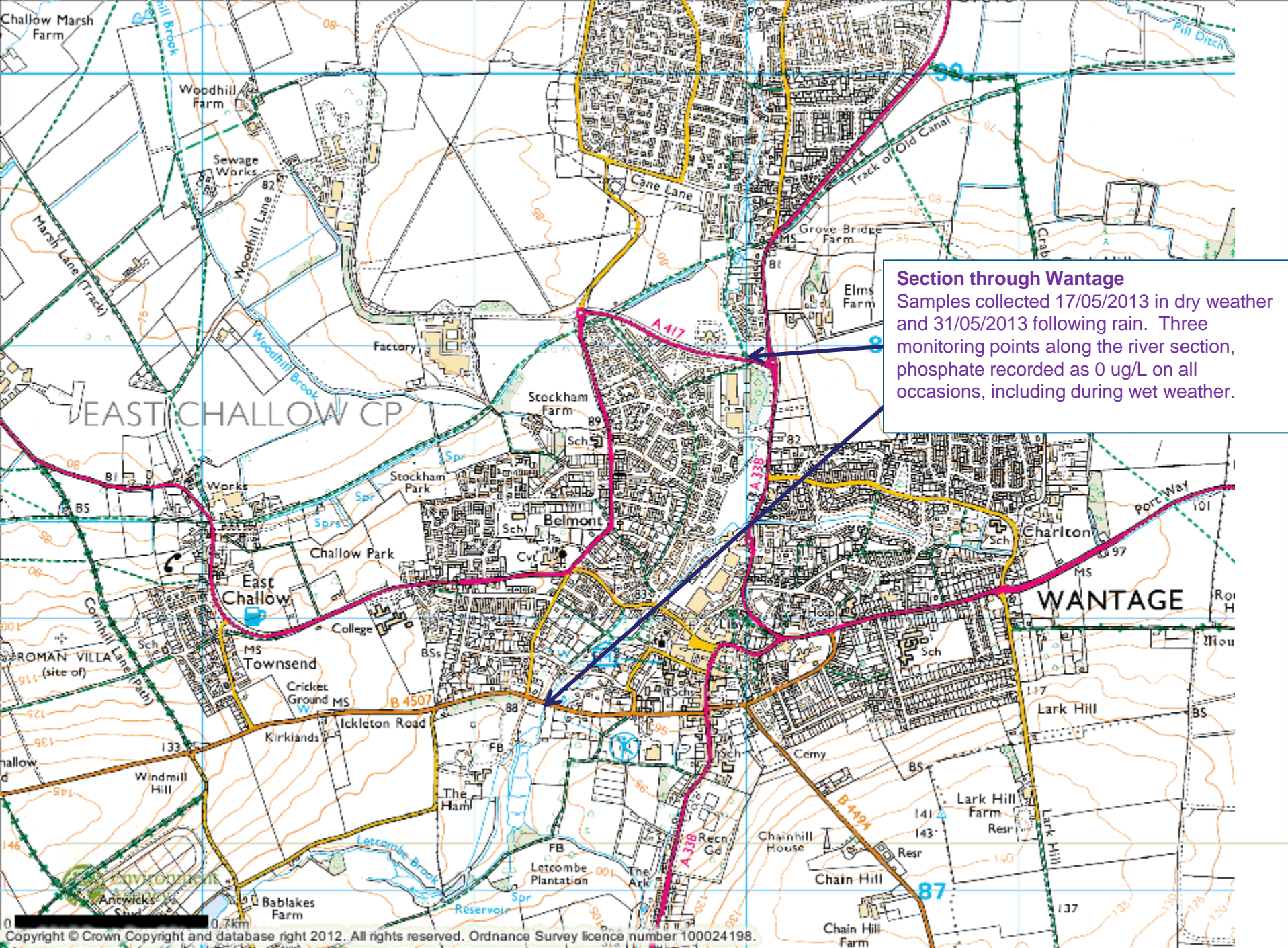
**Section through Grove**  
No instances of significant potential sediment sources observed, except bank erosion in some locations. Ducks and children caused in-stream sediment resuspension in places.

**Wantage STW discharges about here**

**Section through Grove**  
Dry weather samples taken (17/05/2013), plus samples taken following heavy thunderstorms (25/07/2013). 9 locations sampled. Dry weather phosphate mostly 0-100ug/L, in wet weather this was between 100-200 ug/L. Locations of field drains provided, but no overland flow or flow from the field drains was observed.

**Wantage to Grove**  
Samples collected on 6/05/2013 during dry weather. 100ug/L phosphate noted at down stream end of survey, 200ug/L phosphate at upstream end of survey. Accumulated silt noted in the channel at various points in the reach and locations of drainage pipes noted.





**Section through Wantage**  
Samples collected 17/05/2013 in dry weather and 31/05/2013 following rain. Three monitoring points along the river section, phosphate recorded as 0 ug/L on all occasions, including during wet weather.



### Upper Letcombe Brook Section

Surveys were carried out on 20/05/2013 during dry weather and 26/05/2013 following two days of wet weather. In dry weather phosphate concentrations were measured as 200ug/L throughout the section (100ug/L direction from a spring at the top end). In the survey following rain, concentrations were lower, <100ug/L at each point.

### Warborough Road Section

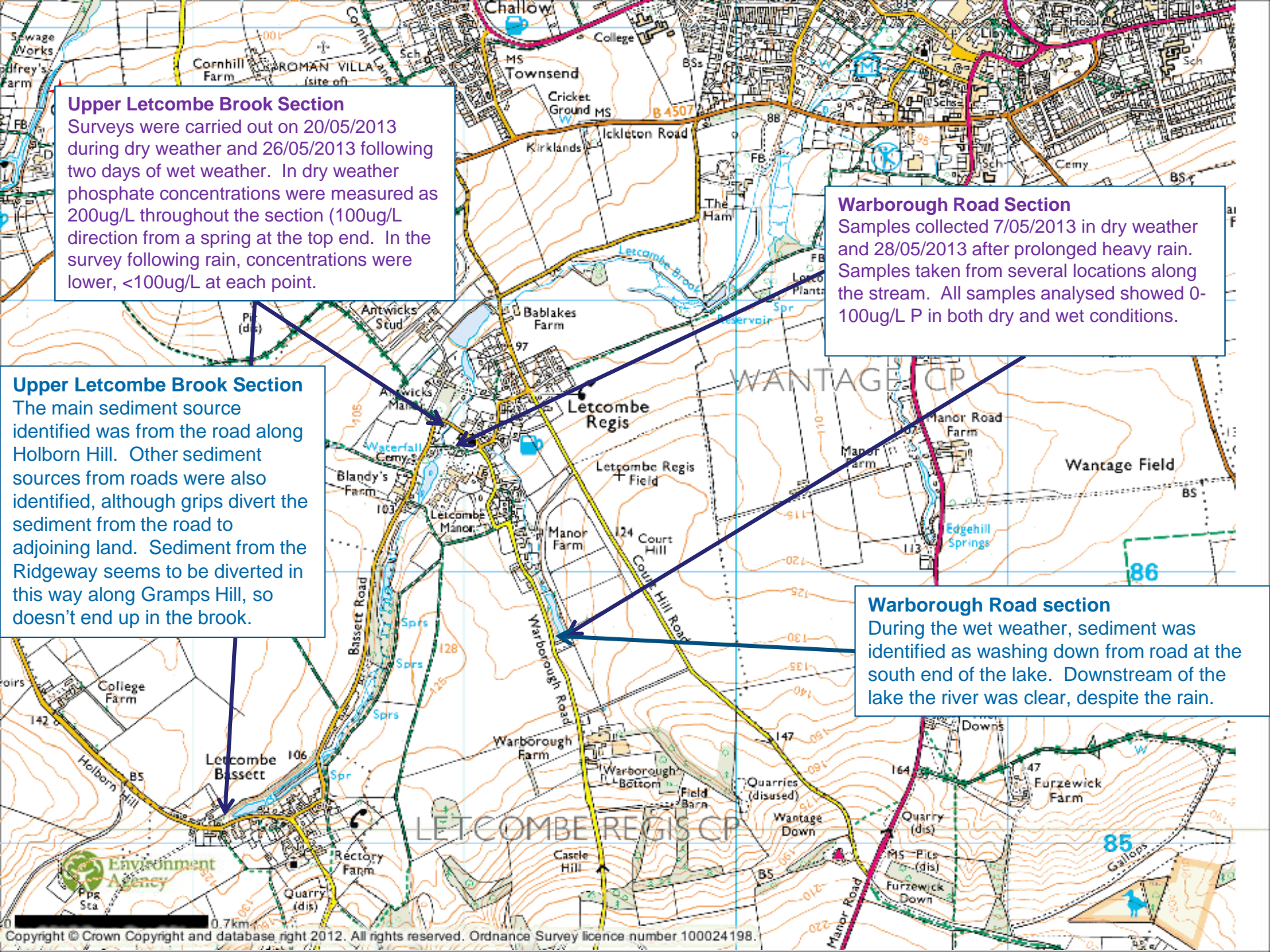
Samples collected 7/05/2013 in dry weather and 28/05/2013 after prolonged heavy rain. Samples taken from several locations along the stream. All samples analysed showed 0-100ug/L P in both dry and wet conditions.

### Upper Letcombe Brook Section

The main sediment source identified was from the road along Holborn Hill. Other sediment sources from roads were also identified, although grips divert the sediment from the road to adjoining land. Sediment from the Ridgeway seems to be diverted in this way along Gramps Hill, so doesn't end up in the brook.

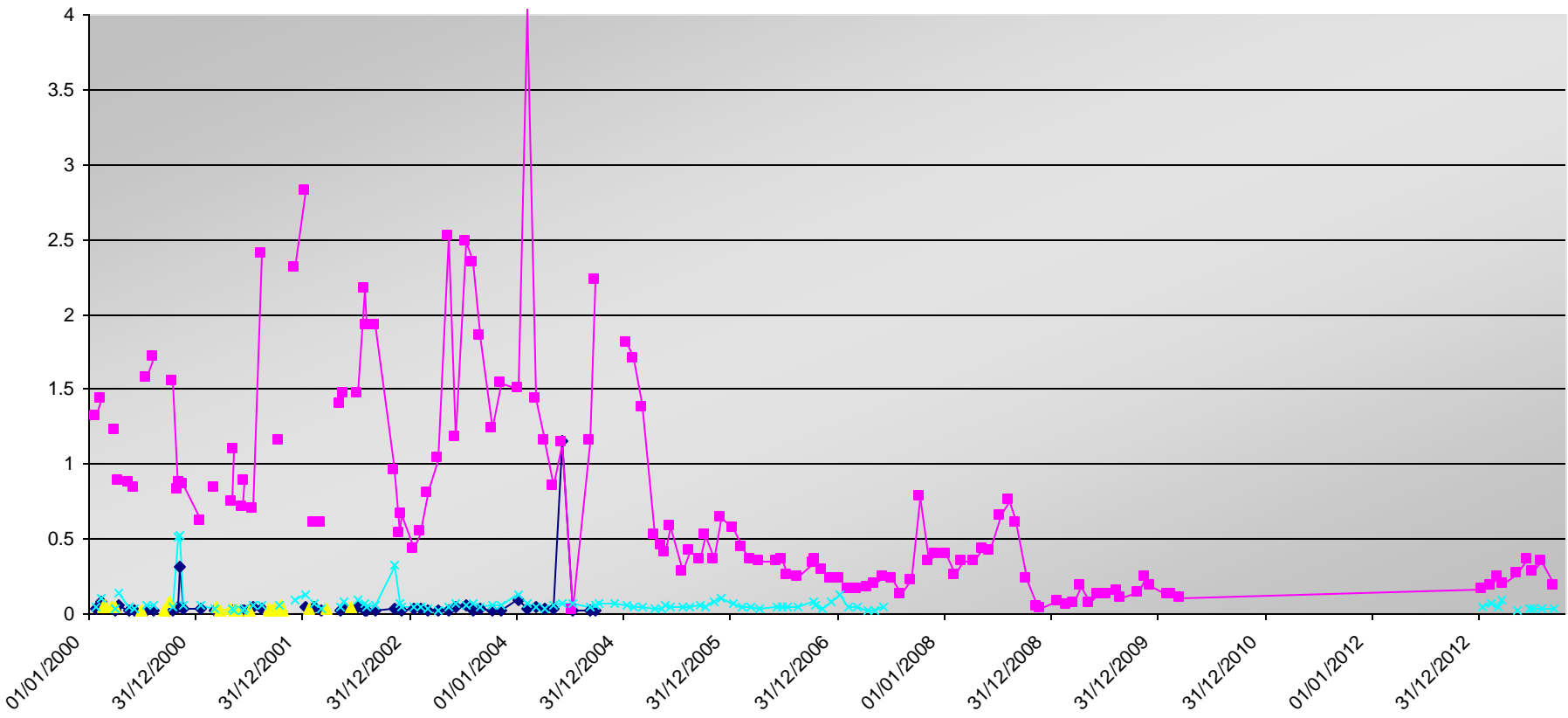
### Warborough Road section

During the wet weather, sediment was identified as washing down from road at the south end of the lake. Downstream of the lake the river was clear, despite the rain.



Phosphate concentrations, mg/L at locations down the Letcombe Brook as measured by the Environment Agency. The pink line shows concentrations in the brook below the Wantage STW effluent discharge point. They are much higher than seen at the other sample point locations upstream of the STW and consequently, these data are hard to read near the x-axis of the graph. They can be seen in more detail in the second graph.

- POCR0005, LETCOMBE BROOK AT LOCKS LANE, WANTAGE:2AZZ, 0180:Ortho
- POCR0006, LETCOMBE BROOK AT WEIR FARM, EAST HANNEY:2AZZ, 0180:Or
- POCR0007, LETCOMBE BROOK BELOW WHITES FARM BRIDGE,:2AZZ, 0180:Or
- POCR0008, LETCOMBE BROOK JUST ABOVE WANTAGE STW:2AZZ, 0180:Ortho



Phosphate concentrations, mg/L at locations down the Letcombe Brook as measured by the Environment Agency. These are data from samples points upstream of Wantage STW. Note the y-axis scale. The concentrations are much lower in the upper section of the Brook. Missing data is associated with time periods when samples have not been collected or the “retirement” of sampling locations.

- POCR0005, LETCOMBE BROOK AT LOCKS LANE, WANTAGE:2AZZ, 0180:Ortho
- POCR0007, LETCOMBE BROOK BELOW WHITES FARM BRIDGE, :2AZZ, 0180:Or
- POCR0008, LETCOMBE BROOK JUST ABOVE WANTAGE STW:2AZZ, 0180:Ortho

