

## The Cleddau Project

### Checklist for Rapid Response to Pollution incident – DRAFT

TCP ref.....

#### NOTES/GUIDANCE

- Please do take care and prioritize your safety and that of others around you. In particular ensure you have referred to your risk assessment document and the Dynamic Risk Assessment Card. **Do not put yourself in danger by accessing the water without proper equipment/support or by confronting landowners/possible polluters or members of the public.**
- Do not enter onto private land unless you have the permission of the landowner.
- Take care when handling the sampling reagents (particularly the ammonia test) and dispose of tested samples responsibly (ammonia samples should be stored safely and passed to Ric Cooper when practicable).
- Be careful not to cause any additional environmental damage e.g. eroding riverbanks, disturbing wildlife etc.
- Feel free to engage with onlookers; tell them about the Project and note any useful background information about area and the pollution.

**And THANK YOU for helping!**

| GENERAL INFORMATION                                                       |                                                             |                             |
|---------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------|
| Date                                                                      |                                                             |                             |
| Time                                                                      |                                                             |                             |
| Location –                                                                | Address/<br>name of watercourse                             |                             |
| Please fill in one of these options:                                      | What 3 Words                                                |                             |
|                                                                           | OS grid reference OR                                        |                             |
|                                                                           | Latitude /<br>Longitude                                     |                             |
| Name & contact details of the person who reported the pollution           | Name<br><br>Phone number<br>Email?                          |                             |
| Name & contact details of TCP Responder                                   | Name<br><br>Phone number<br>Email?                          |                             |
| Is this to alert us of a major concern raised in your routine monitoring? | <input type="checkbox"/> Yes<br><input type="checkbox"/> No | TCP Testing Site reference: |

|                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>Visible description of pollution (please tick)<br/>Refer to and familiarise yourself with the Identifying Pollution page on the The Cleddau Project Surveyor Website page.</p>                                                                                  | <div> <input type="checkbox"/> Spike in phosphate levels<br/> <input type="checkbox"/> Spike in nitrate &amp;/or ammonia levels<br/> <input type="checkbox"/> Observable pollution           <div> <input type="radio"/> Smell<br/> <input type="radio"/> Discolouration<br/> <input type="radio"/> Foam<br/> <input type="radio"/> Surface sheen           </div> <input type="checkbox"/> Can you see the river bed?           <div> <input type="radio"/> Yes<br/> <input type="radio"/> No           </div> <input type="checkbox"/> Fish or other wildlife dead or in distress<br/> <input type="checkbox"/> Algal bloom<br/> <input type="checkbox"/> Excessive run-off from road or adjacent land<br/> <input type="checkbox"/> Spreading of manure within 10m of watercourse<br/> <input type="checkbox"/> Use of herbicides/pesticides/fungicides within 5m of watercourse<br/> <input type="checkbox"/> Change of land use or disturbed soil, alongside watercourse<br/> <input type="checkbox"/> Other – please record details below<br/><br/>           .....<br/><br/>           .....         </div> |  |
| <p>How far does the pollution extend?</p>                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <p>Are there any obvious sources?<br/>(record which bank – left or right bank – when facing downstream)</p>                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <p>When did it start? (To the best of your knowledge.)</p>                                                                                                                                                                                                         | <p>Date:<br/>Time:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <p>When did it end or is it ongoing?</p>                                                                                                                                                                                                                           | <p>Date:<br/>Time:<br/>Ongoing:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| <p>Current weather</p>                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <p>Weather in last 24 hours</p>                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <p>What are the flow conditions?</p>                                                                                                                                                                                                                               | <div> <input type="checkbox"/> No flow<br/> <input type="checkbox"/> Low flow<br/> <input type="checkbox"/> This is my normal flow<br/> <input type="checkbox"/> High flow<br/> <input type="checkbox"/> In flood         </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| <p>Any other information.</p>                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <p>Have you reported to NRW?<br/><br/> <a href="https://naturalresources.wales/about-us/contact-us/report-an-incident/?lang=en">https://naturalresources.wales/about-us/contact-us/report-an-incident/?lang=en</a><br/><br/>         or 0300 065 3000 (24hrs).</p> | <div> <input type="checkbox"/> Yes<br/> <input type="checkbox"/> No<br/><br/>         NRW incident reference number .....       </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <p>Is a repeat visit recommended?</p>                                                                                                                                                                                                                              | <div> <input type="checkbox"/> Yes<br/> <input type="checkbox"/> No         </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

Check list for rapid response water quality sampling:

| TEST RESULTS                                                                                                         | Notes/Help                                                                                                                                                                                                                                                                       | Result / Done / Other / n/a |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1. Measure depth of water                                                                                            | If not possible to measure, then please estimate as best you can i.e. in 3 places across the width and divide for an average.                                                                                                                                                    |                             |
| 2. Measure width of waterway                                                                                         | As above                                                                                                                                                                                                                                                                         |                             |
| 3. Calculate Flow rate cross section                                                                                 | Multiply 1 x 2<br>Make sure you are using the same measurement consistently throughout. Millimeters, centimeters or meters.                                                                                                                                                      | =                           |
| 4. Assess speed of water flow (timed speed over specified distance – average)                                        | Distance to Travel divided by the time taken to travel that distance (m/s)<br>- Distance<br>- Time taken to travel<br>As above use consistent measurements.                                                                                                                      |                             |
| 5. Calculate the Flow Rate                                                                                           | Multiply 3 x 4<br>Please state the measurement used.                                                                                                                                                                                                                             | =                           |
| 6. Record water temperature                                                                                          | Hold the monitor in the water on site and wait until the reading settles                                                                                                                                                                                                         |                             |
| 7. Record water PH                                                                                                   | As per 6.                                                                                                                                                                                                                                                                        |                             |
| 8. Measure Turbidity                                                                                                 | Fill the turbidity tube until the cross at the base can no longer be seen. Note the level.                                                                                                                                                                                       |                             |
| 9. Collect a control sample                                                                                          | Ensure a clean container is used and has been thoroughly swilled with river water. Collect approximately 1 litre and store in a cool place.                                                                                                                                      |                             |
| 10. From another sample - Take Nitrate reading                                                                       | Please follow the instructions that come with the monitor. Samples can be tested off site, within 24 hours if kept cool. Prior to testing the sample and the test equipment should be brought to room temperature (16 -20C) and tested within 20 minutes.                        |                             |
| 11. Take Phosphate reading                                                                                           | Please follow the separate instructions for the monitor. Samples can be tested off site, within 24 hours if kept cool. Prior to testing the sample and the test equipment should be brought to room temperature (16 -20C) and tested within 20 minutes.                          |                             |
| 12. Take Ammonia reading                                                                                             | Please follow the separate instructions for the monitor. Samples can be tested off site, within 2 hours of collection. Prior to testing the sample and the test equipment should be brought to room temperature (16 -20C).                                                       |                             |
| 13. Take sample for E Coli testing and arrange delivery to Jim Pickering                                             | Sample of at least 100 ml in a small container swilled in tap water and then sealed.<br>Take to Jim Pickering, 5 Church Road Llanstadwell, Milford Haven SA73 1EE ( <a href="mailto:jimp@envitech.co.uk">jimp@envitech.co.uk</a> ) Please email in advance and await a response. |                             |
| 14. Take Dissolved oxygen reading                                                                                    | Please follow the separate instructions for the monitor and carry out on site                                                                                                                                                                                                    |                             |
| 15. Take 1 minute of video footage with mobile phone.                                                                | Portrait and taking as many angles of the pollution as possible, both close up and panned out.<br>Ensure GPS turned on phone.                                                                                                                                                    |                             |
| 16. Take 3 still photos of pollution                                                                                 |                                                                                                                                                                                                                                                                                  |                             |
| 17. Take a photo of your Hanna monitor with digital results clearly visible alongside the vial showing colour change |                                                                                                                                                                                                                                                                                  |                             |

|                                                                                                                  |                                                                                                                                                                                                                                                            |  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 18. Consider reporting to Rural Crime Team                                                                       | Report via 101<br><br>Ask for the Rural Crime Team to be tagged in the incident. Narbeth Police/Fire Station; PC588 James Warren                                                                                                                           |  |
| 19. Report to NRW                                                                                                | Link as follows<br><a href="https://naturalresources.wales/about-us/contact-us/report-an-incident/?lang=en">https://naturalresources.wales/about-us/contact-us/report-an-incident/?lang=en</a><br>or 0300 065 3000 (24hrs)<br>and note reference provided. |  |
| 20. Report on TCP pollution reporting tool and upload all relevant information/pics and a picture of this sheet. | Link as follows<br><br><a href="https://thecleddauproject.org.uk/pollution/">https://thecleddauproject.org.uk/pollution/</a>                                                                                                                               |  |
| 21. Email a picture of this document to<br><b>info@thecleddauproject.org.uk</b>                                  |                                                                                                                                                                                                                                                            |  |

| For TCP follow up                                                                                    |  |  |
|------------------------------------------------------------------------------------------------------|--|--|
| 1. Email rapid response results to NRW using info@cleddauproject                                     |  |  |
| 2. Seek a response as to how NRW have triaged this incident and follow up their actions if relevant. |  |  |
| 3. Consider social media post / website                                                              |  |  |
| 4. Add to NRW dossier of pollution reports                                                           |  |  |