



Blaenau Gwent County Borough Council

2020 Air Quality Progress Report

In fulfillment of Part IV of the Environment Act 1995
Local Air Quality Management

December 2020

Local Authority Officer	Tim Griffin
Department	Environmental Health Section- Environmental Protection Team
Address	Blaenau Gwent CBC, Municipal Offices, Civic Centre, Ebbw Vale, NP23 6XB.
Telephone	01495 357813
E-mail	Tim.Griffin@blaenau-gwent.gov.uk
Report Reference number	BG/ENVH/AQR/PR/2020
Date	December 2020

Executive Summary: Air Quality in Our Area

Air Quality in Blaenau Gwent

This progress report is the latest in a series of reports relating to air quality and has been compiled and published by Blaenau Gwent County Borough Council. The report contains the latest air quality data for the calendar year of 2019 applicable to the County Borough, and provides current information relating to any new local developments or issues that may have an impact on air quality.

The UK's National Air Quality Strategy sets air quality objectives for seven key pollutants which Local Authorities are legally required to have regard to. These include Benzene, 1,3 Butadiene, Carbon Monoxide, Lead, Nitrogen Dioxide, Particulate Matter (PM₁₀) & (PM 2.5) and Sulphur Dioxide. The sources of these pollutants vary but include emissions to atmosphere from a variety industrial processes, energy generation, domestic and industrial combustion and road traffic.

Local authorities are obliged to periodically review the air quality within their area to determine the risk of the air quality objectives set out in the national strategy being exceeded. If a Local Authority identifies a risk of any of the objectives being exceeded within its area then they must proceed to a Detailed Assessment for that pollutant and declare an air quality management area (AQMA).

Much of the traditional coal and steel industry that historically populated the Borough has been replaced by a diverse industrial base comprising of businesses such as pharmaceuticals, battery and computer systems, electronic and high tech engineering companies. The closure of much of the heavy industry in the area has had an adverse impact on the local economy but conversely it has meant the removal of significant sources of air pollution.

The previous reports produced by Blaenau Gwent CBC have concluded that it is unlikely that any of the air quality objectives that the Council are required to have regard to, are being exceeded or will be exceeded within the Borough and therefore no Detailed Assessment for any pollutant has been carried out to-date. Blaenau Gwent CBC has not declared any AQMA's.

This 2020 air quality progress report **does not** identify the need for Blaenau Gwent CBC to proceed to a Detailed Assessment for any of the seven pollutants identified in the UK's National Air Quality Strategy.

The next Air Quality Progress Report for the County Borough of Blaenau Gwent is scheduled to be published in September 2021.

Actions to Improve Air Quality

Blaenau Gwent CBC has not declared any air quality management areas (AQMA) within our borough and so as a result has not had to produce an air quality action plan.

The environmental health section continues to work closely with other internal council departments, such as planning control, to monitor and review developments that may impact on local air quality. We also continue to regulate a variety of industrial processes that hold environmental permits. We also respond and deal with air quality pollution incidents and smoke nuisance complaints.

Local Priorities and Challenges

Blaenau Gwent CBC aims to continue to protect the public health of people living in Blaenau Gwent by maintaining good levels of air quality within our area. This is being done by carrying out additional air quality monitoring at a number of sensitive locations including schools within our borough. The results from these new monitoring locations are reported in this air quality progress report.

How to Get Involved

Further information on air quality within the Blaenau Gwent area can be found by visiting the air quality section of the council's website:

<http://www.blaenau-gwent.gov.uk/en/resident/environmental-health/pollution/air-quality/>

Or by contacting us directly at:

Environmental Health Section, Environmental Protection Team, Blaenau Gwent CBC, Municipal offices, Civic Centre, Ebbw Vale, NP23 6XB.

Telephone: 01495 3557813 Email: environmental.health@blaenau-gwent.gov.uk

Table of Contents

Executive Summary: Air Quality in Our Area	i
Air Quality in Blaenau Gwent	i
Actions to Improve Air Quality	ii
Local Priorities and Challenges.....	ii
How to Get Involved.....	ii
1. Actions to Improve Air Quality	1
1.1 Previous Work in Relation to Air Quality	1
1.2 Air Quality Management Areas.....	3
1.3 Implementation of Action Plans	1
2. Air Quality Monitoring Data and Comparison with Air Quality Objectives	2
2.1 Summary of Monitoring Undertaken in 2019.....	2
2.1.1 Automatic Monitoring Sites	2
2.1.2 Non-Automatic Monitoring Sites.....	2
2.2 2019 Air Quality Monitoring Results	7
2.3 Comparison of 2019 Monitoring Results with Previous Years and the Air Quality Objectives	11
2.3.1 Nitrogen Dioxide (NO ₂).....	11
2.3.2 Particulate Matter (PM ₁₀).....	14
2.3.3 Particulate Matter (PM _{2.5}).....	14
2.3.4 Other Pollutants Monitored	14
2.4 Summary of Compliance with AQS Objectives as of 2019.....	14
3. New Local Developments	15
3.1 Road Traffic Sources (and Other Transport).....	15
3.2 Industrial / Fugitive or Uncontrolled Sources / Commercial Sources.....	15
3.3 Planning Applications	16
3.4 Other Sources	18
4. Policies and Strategies Affecting Airborne Pollution	19
4.1 Local / Regional Air Quality Strategy	19
4.2 Air Quality Planning Policies.....	19
4.3 Local Transport Plans and Strategies	19
4.4 Active Travel Plans and Strategies	20
4.5 Local Authorities Well-being Objectives.....	20
4.6 Green Infrastructure Plans and Strategies.....	21
4.7 Climate Change Strategies.....	21

5. Conclusions and Proposed Actions	22
5.1 Conclusions from New Monitoring Data.....	22
5.2 Conclusions relating to New Local Developments	22
5.3 Other Conclusions.....	22
5.4 Proposed Actions	22
References	24
Appendices	25
Appendix A: Monthly Diffusion Tube Monitoring Results	26
Appendix B: A Summary of Local Air Quality Management	28
Purpose of an Annual Progress Report.....	28
Air Quality Objectives.....	28
Appendix C: Blaenau Gwent boundary area and diffusion tube location	
plan	30
Appendix D: Individual location plans for all diffusion tubes within	
Blaenau Gwent 2019	31
Glossary of Terms	59

List of Tables

- Table 1.2- Reports produced by Blaenau Gwent CBC as a result of previous rounds of local air quality review and assessment.
- Table 2.1- Details of non-automatic monitoring sites for 2019.
- Table 2.2- Results of nitrogen dioxide diffusion tubes for 2019
- Table 2.3- Results of nitrogen dioxide diffusion tubes for 2011 through to and including 2019.

List of Figures

- Figure 1- Measured levels of nitrogen dioxide for 2019 compared with the air quality objective.
- Figure 2- Measured levels of nitrogen dioxide for 2011-2019 compared with the air quality objective.

1. Actions to Improve Air Quality

1.1 Previous Work in Relation to Air Quality

Table 1.2 provides a comprehensive list of the reports produced by Blaenau Gwent CBC as a result of previous rounds of review and assessment of the air quality within the Borough, and summarises the main findings of each report.

Table 1.2 - Reports Produced By Blaenau Gwent CBC As A Result Of Previous Rounds of Local Air Quality Review and Assessment

Report	Review And Assessment Undertaken & Conclusions	Year Published
1999 First Stage Review and Assessment	Initial screening of industrial, transport and other significant sources of air pollution within the Borough. Concluded that it is unlikely that there will be failure to achieve any of the air quality objectives.	1999
2003 Updating and Screening Assessment	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2003
2004 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2004
2005 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2005
2006 Updating and Screening Assessment	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2006
2007 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2007
2008 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2008
2009 Updating and Screening	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant	2009

Assessment	changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	
2010 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2010
2011 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2011
2012 Updating and Screening Assessment Report	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2012
2013 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2013
2014 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2014
2015 Updating and Screening Assessment Report	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2015
2016 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2016
2017 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2017
2018 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2018
2019 Progress Report	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2019

1.2 Air Quality Management Areas

Air Quality Management Areas (AQMAs) are declared when air quality is close to or above an acceptable level of pollution (known as the air quality objective (Please see Appendix A)). After declaring an AQMA the authority must prepare an Air Quality Action Plan (AQAP) within 18 months setting out measures it intends to put in place to improve air quality to at least the air quality objectives, if not even better. AQMA(s) are seen by local authorities as the focal points to channel resources into the most pressing areas of pollution as a priority.

Blaenau Gwent CBC currently does not have any AQMAs.

1.3 Implementation of Action Plans

Blaenau Gwent CBC has not declared any air quality management areas and as a result has not published an air quality action plan.

2. Air Quality Monitoring Data and Comparison with Air Quality Objectives

2.1 Summary of Monitoring Undertaken in 2019

2.1.1 Automatic Monitoring Sites

Blaenau Gwent CBC does not currently undertake any automatic monitoring of any of the pollutants relevant to the UK National Air Quality Objectives.

2.1.2 Non-Automatic Monitoring Sites

Blaenau Gwent CBC undertook diffusion tube monitoring at 27 sites throughout the Borough during 2019, the details of which are presented in Table 2.1. A map indicating the approximate location of each current monitoring site within the borough is provided in Appendix C and individual maps for each monitoring location is provided in Appendix D to this report.

The diffusion tubes are exposed for four week periods in accordance with the National NO₂ exposure calendar. Gradko Environmental was used to analyse and provide data from all of the NO₂ diffusion tubes within Blaenau Gwent during 2019.

Gradko Environmental used the 50% TEA in Acetone method to prepare the diffusion tubes for analysis and have indicated that they are following the procedures set out in the Harmonisation Practical Guidance. It has also been confirmed that Gradko Environmental demonstrated satisfactory performance in the Air- PT/ WASP scheme (run by the Health and Safety Laboratory) for the period of 2019.

Blaenau Gwent CBC does not currently undertake a co-location study for its NO₂ diffusion tube monitoring, in previous years the 'National' bias adjustment factor has been used for the results of the monitoring undertaken during each specific year. The bias adjustment factor for Gradko Environmental for 2019 was 0.89.

A full audit of all monitoring sites used by Blaenau Gwent CBC was undertaken at the end of 2019. The audit identified that monitoring was no longer required at two of established monitoring locations. These locations were BGBC-11 and BGBC-17 as we established that the measured levels of nitrogen dioxide were continuously below the air quality objective.

Also due to new developments within Blaenau Gwent and to ensure compliance with the most recent air quality guidance a number of new monitoring locations were identified with monitoring beginning in January 2020. These were-

- BGBC-38- Deighton Primary School, Stockton Way, Tredegar, NP22 3ES.
- BGBC-39- Six Bells Primary Campus, Abertillery Learning Community, Six Bells Road, Six Bells, Abertillery, NP13 2NJ.

Table 2.1 – Details of Non Automatic Monitoring Sites

Site Name	LA Reference	Site Type	Location	Easting (X) / Northing (Y)	OS Grid Map Reference	Pollutants Monitored	Within AQMA?	Relevant Exposure? (Y/N with distance (m) to relevant exposure)	Height between 2 to 4 m? (Y/N)	Distance to kerb of nearest road (N/A if not applicable)	Worst-case Location ?	WAQF Start Date
BGBC-01	S1	Near Road	The Darren, Daren-felen Road, Brynmawr	X 319538 Y 211956	SO1911NE	NO ₂	N	Y (on facade)	Y	8m	Y	Jan 1995
BGBC-04	S4	Urban Background	22 Parkhill, Beaufort, Ebbw Vale	X 317298 Y 211287	SO1711SW	NO ₂	N	Y (10m)	Y	N/A	N/A	Jan 1995
BGBC-05	A3	Urban Background	Willow Tree Bungalow, Aberbeeg	X 321139 Y 201114	SO2101SW	NO ₂	N	Y (1m)	Y	10m	N/A	Jan 1995
BGBC-07	A1	Urban Background	Aberbeeg Medical Centre, Aberbeeg	X 320942 Y 202011	SO2002SE	NO ₂	N	Y (18m)	Y	25m	N/A	Nov 1995
BGBC-11	C2	Urban Background	8 Cwm Graig Bungalows, Marine Street, Cwm, Ebbw Vale	X 318785 Y 204592	SO1804NE	NO ₂	N	Y (on facade)	Y	18m	N/A	Jan 2000
BGBC-13	T2	Roadside	3 Kings Arms Cottages, Trefil, Tredegar	X 312012 Y 212782	SO1212NW	NO ₂	N	Y (on facade)	Y	4m	Y	Oct 2000
BGBC-16	A5	Near road	49 Aberbeeg Road, Aberbeeg	X 321430 Y 202672	SO2102NW	NO ₂	N	Y (on façade)	Y	7m	Y	Oct 2005
BGBC-17	C3	Near road	Cwmyrdderch Court, School Terrace, Cwm, Ebbw Vale	X 318429 Y 205535	SO1805NW	NO ₂	N	Y (5m)	Y	7m	Y	Oct 2005
BGBC-18	BT1	Roadside	Welfare Hall, Beaufort Hill, Ebbw Vale	X 317543 Y 211688	SO1711NE	NO ₂	N	Y (on façade)	Y	5m	Y	Oct 2005
BGBC-19	BT2	Roadside	42 Beaufort Rise, Ebbw Vale	X 316670 Y 211597	SO1611NE	NO ₂	N	Y (on facade)	Y	3m	Y	Oct 2005
BGBC-20	TR1	Roadside	122 Beaufort Road, Tredegar	X 314858 Y 210240	SO1410SE	NO ₂	N	Y (on façade)	Y	5.5m	Y	Oct 2005

BGBC-21	TR2	Other - Nearest residential premises to busy roundabout on Heads of Valley Road (A465)	14 Bryn Rhosyn, Merthyr Road, Tredegar	X 312846 Y 210586	SO1210NE	NO ₂	N	Y (on façade)	Y	35m	Y	Oct 2005
BGBC-22	BR1	Near road	2 King Street, Brynmawr	X 319562 Y 212128	SO1912SE	NO ₂	N	Y (on façade)	Y	6m	Y	Nov 2005
BGBC-23	C4	Near road	Cwm Conservative Club, Mill Terrace, Cwm	X 318453 Y 205308	SO1805SW	NO ₂	N	Y (on façade)	Y	6m	Y	Jan 2010
BGBC-24	T5	Roadside	4 Glen View, Nantybwich, Tredegar	X 313145 Y 210769	SO1310NW	NO ₂	N	Y (on façade)	Y	5m	Y	Jan 2010
BGBC-25	E1	Near road	Red Rose Care Centre, Park Road, Ebbw Vale	X 316996 Y 207898	SO1607NE	NO ₂	N	Y (on façade)	Y	8m	Y	Jan 2010
BGBC-26	E2	Other – near road where this is an increase in traffic expected due to major works nearby	2 The Dingle, Ebbw Vale	X 316980 Y 209842	SO1609NE	NO ₂	N	Y (on façade)	Y	10m	Y	Jan 2010
BGBC-27	G1	Other – near road where an increase in traffic expected due to major works nearby	Tyn y Rhyn, Llangynidr Road, Ebbw Vale	X 316720 Y 212796	SO1612NE	NO ₂	N	Y (on façade)	Y	11m	Y	Jan 2014
BGBC-28	R1	Other – near road where an increase in traffic expected due to major works nearby	1 Coates Row, Rassau, Ebbw Vale	X 314488 Y 211642	SO1411NW	NO ₂	N	Y (on façade)	Y	20m	Y	Jan 2014

Blaenau Gwent County Borough Council

BGBC-29	n/a	Other- nearest residential properties to new industrial process.	10 Ivy Close, Rassau, Ebbw Vale.	X 315331 Y 211938	SO1511NW	NO ₂	N	Y (on façade)	Y	N/A	Y	Jan 2018
BGBC-30	n/a	Other- nearest residential properties to new industrial process.	8 Annes Court, Ebbw Vale.	X 316010 Y 210183	SO1610NW	NO ₂	N	Y (on façade)	Y	N/A	Y	Jan 2018
BGBC-31	n/a	Other- nearest residential properties to new industrial process.	18 Maes Morgan, Tredegar.	X 312674 Y 210974	S0121ONE	NO ₂	N	Y (on façade)	Y	N/A	Y	Jan 2018
BGBC-32	n/a	School	Ebbw Fawr Learning Campus, Primary School, Ebbw Vale.	X 317392 Y 208313	SO1708SW	NO ₂	N	Y	Y	15m	Y	Jan 2018
BGBC-34	n/a	School	Georgetown Primary School, Oakfield Road, Tredegar.	X 314838 Y 208257	SO1408SE	NO ₂	N	Y	Y	13m	Y	Jan 2018
BGBC-35	n/a	School	Brynbach Primary School, Merthyr Road, Tredegar.	X 313061 Y 210466	SO1310SW	NO ₂	N	Y	Y	9m	Y	Jan 2018
BGBC-36	n/a	School	St Mary's RC Primary School, Brynmawr.	X 319229 Y 211601	SO1911NW	NO ₂	N	Y	Y	10m	Y	Jan 2018
BGBC-37	n/a	School	Abertillery Learning Campus, Tillery Street, Abertillery.	X 321893 Y 204604	SO2104NE	NO ₂	N	Y	Y	54m	Y	Jan 2018

2.2 2019 Air Quality Monitoring Results

Table 2.2 – Annual Mean NO₂ Monitoring Results

Site Name	Location	Within AQMA?	Monitoring period (months)	Data Capture 2019 %	Annual Mean Concentrations	Air Quality Objective Annual Mean for Nitrogen Dioxide (µg/m ³)
					2019 (µg/m ³) Adjusted for bias (0.89)	
BGBC-01	The Darren, Daren-felen Road, Brynmawr	N	12	100	15.7	40
BGBC-04	22 Parkhill, Beaufort, Ebbw Vale	N	12	100	7.3	40
BGBC-05	Willow Tree Bungalow, Aberbeeg	N	12	100	12	40
BGBC-07	Aberbeeg Medical Centre, Aberbeeg	N	12	92	13.6	40
BGBC-11	8 Cwm Graig Bungalows, Marine Street, Cwm, Ebbw Vale	N	12	100	9.9	40
BGBC-13	3 Kings Arms Cottages, Trefil, Tredegar	N	12	100	4.9	40
BGBC-16	49 Aberbeeg Road, Aberbeeg	N	12	100	18.9	40
BGBC-17	Cwmyrdderch Court, School Terrace, Cwm, Ebbw Vale	N	12	75	12.9	40
BGBC-18	Welfare Hall, Beaufort Hill, Ebbw Vale	N	12	100	15.3	40
BGBC-19	42 Beaufort Rise, Ebbw Vale	N	12	100	21.4	40
BGBC-20	122 Beaufort Road, Tredegar	N	12	100	21.2	40
BGBC-21	14 Bryn Rhosyn, Merthyr Road, Tredegar	N	12	100	12.4	40
BGBC-22	2 King Street, Brynmawr	N	12	100	13.7	40

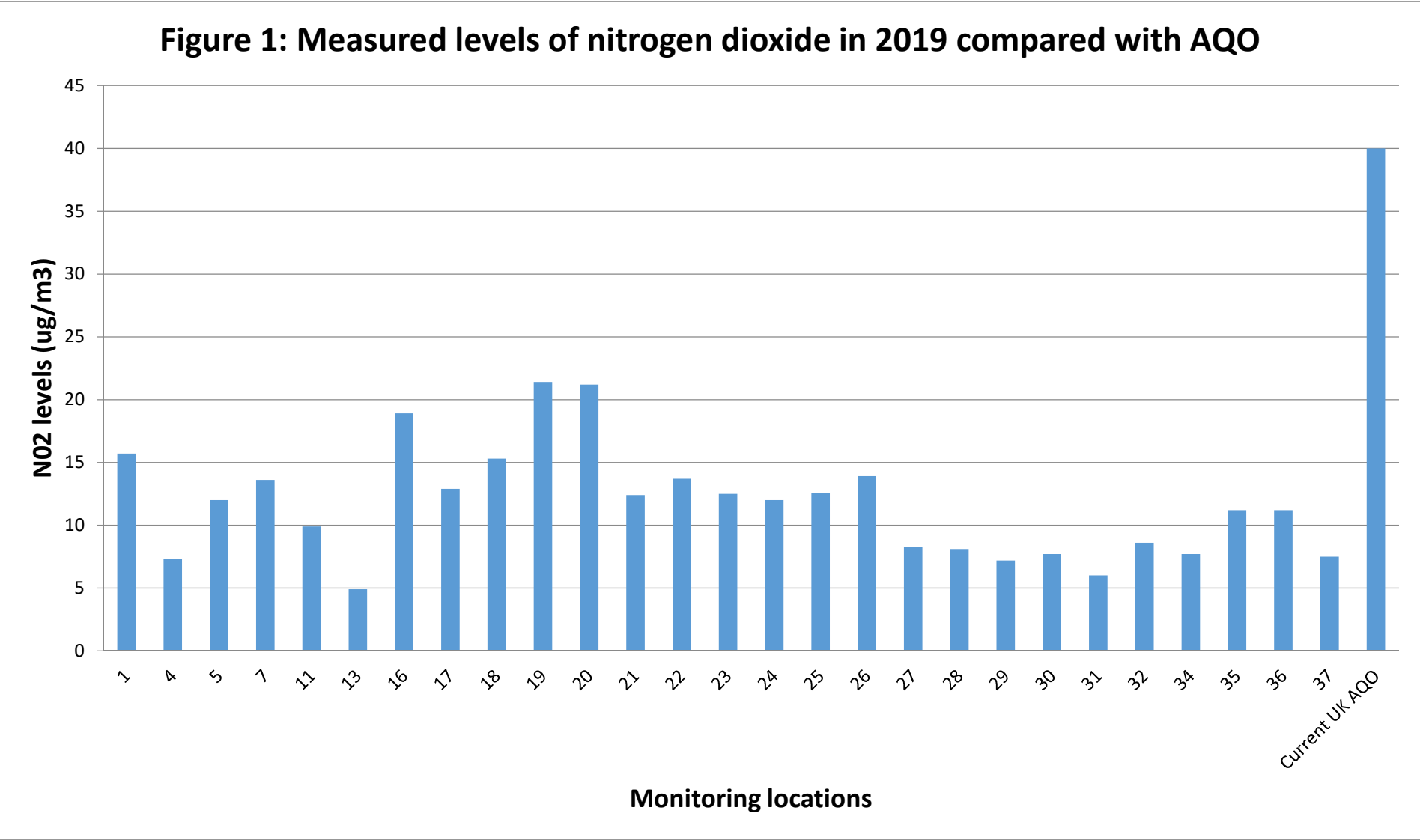
Blaenau Gwent County Borough Council

BGBC-23	Cwm Conservative Club, Mill Terrace, Cwm	N	12	100	12.5	40
BGBC-24	4 Glen View, Nantybwich, Tredegar	N	12	100	12	40
BGBC-25	Red Rose Care Centre, Park Road, Ebbw Vale	N	12	92	12.6	40
BGBC-26	2 The Dingle, Ebbw Vale	N	12	100	13.9	40
BGBC-27	Tyn y Rhyn, Llangynidr Road, Ebbw Vale	N	12	100	8.3	40
BGBC-28	1 Coates Row, Rassau, Ebbw Vale	N	12	100	8.1	40
BGBC-29	10 Ivy Close, Rassau, Ebbw Vale.	N	12	100	7.2	40
BGBC-30	8 Annes Court, Ebbw Vale.	N	12	100	7.7	40
BGBC-31	18 Maes Morgan, Tredegar.	N	12	92	6	40
BGBC-32	Ebbw Fawr Learning Campus, Primary School, Ebbw Vale.	N	12	100	8.6	40
BGBC-34	Georgetown Primary School, Oakfield Road, Tredegar.	N	12	92	7.7	40
BGBC-35	Brynbach Primary School, Merthyr Road, Tredegar.	N	12	92	11.2	40
BGBC-36	St Mary's RC Primary School, Brynmawr.	N	12	100	11.2	40
BGBC-37	Abertillery Learning Campus, Tillery Street, Abertillery.	N	12	92	7.5	40

The results provided in Table 2.2 above identify that the Nitrogen Dioxide levels at each of the monitoring sites were considerably below the current Annual Mean Air Quality Objective of 40 $\mu\text{g}/\text{m}^3$.

Figure 1 below provides a graphical representation of the 2019 measured levels of Nitrogen Dioxide at each monitoring location in comparison with the Air Quality Objective for this pollutant.

Figure 1: Measured levels of nitrogen dioxide in 2019 compared with AQO



2.3 Comparison of 2019 Monitoring Results with Previous Years and the Air Quality Objectives

2.3.1 Nitrogen Dioxide (NO₂)

Blaenau Gwent CBC does not currently undertake any automatic monitoring for Nitrogen Dioxide.

Diffusion Tube Monitoring Data

A summary of the results obtained from the Nitrogen Dioxide diffusion monitoring undertaken at the 27 sites within the Borough for the period of 2019 is presented in Table 2.2. Full details of the monthly mean values for each site are provided in Appendix A to this report.

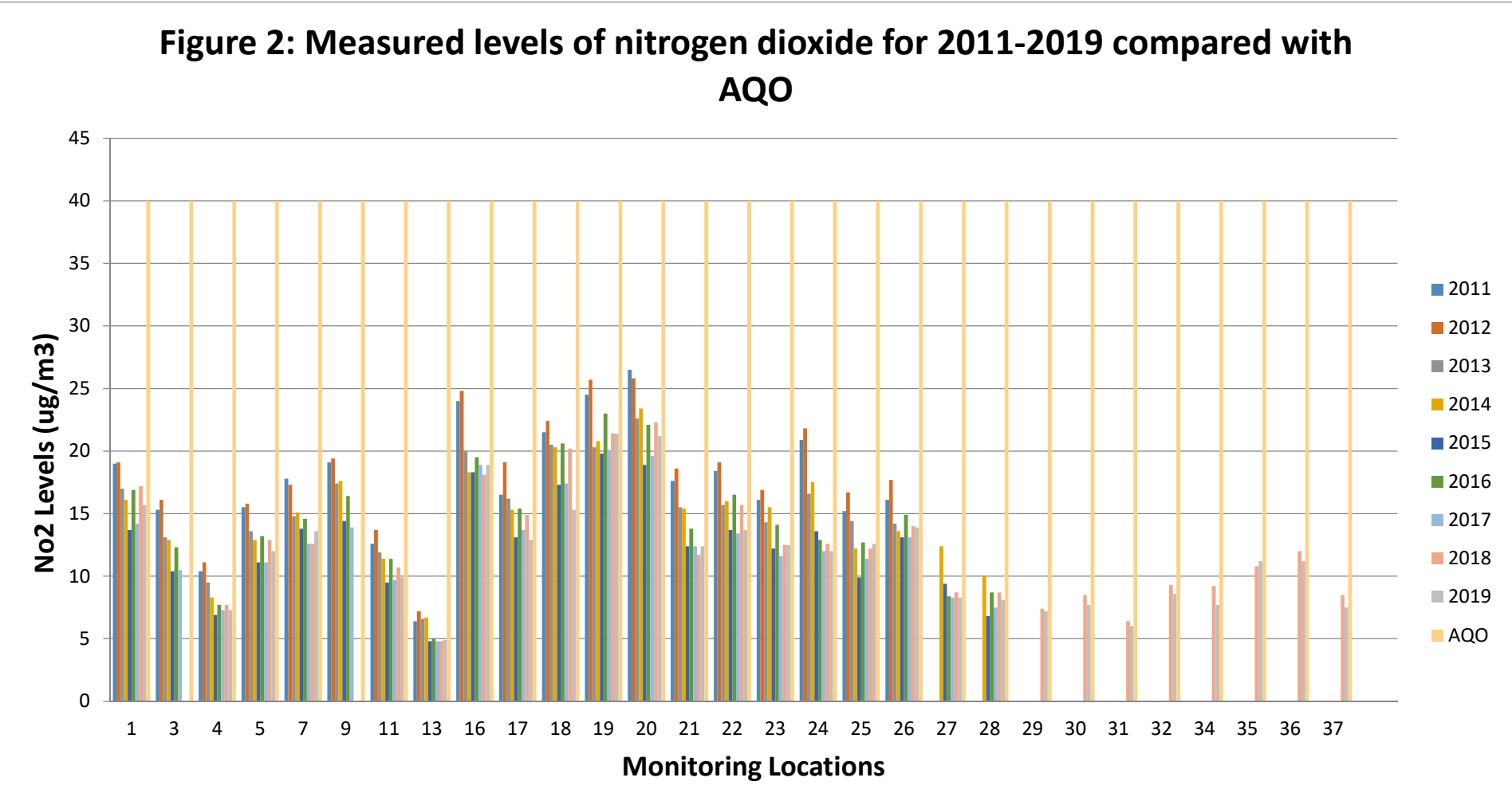
None of the results from the diffusion tube monitoring are based on triplicate or collocated tubes, the results are based on 12 months' worth of data for the calendar year 2019 so none of the data has been annualised.

Table 2.3 provides a comparison of the results for the period of 2019 with the results of previous years monitoring (where available) for the years 2011 - 2019. The results identify that there has been a decrease in the measured levels of nitrogen dioxide in 2019 when compared with the 2018 levels at nineteen out of the twenty-seven monitoring locations. The 2019 results also identify that the results at six monitoring locations increased (BGBC- 07, BGBC- 13, BGBC-16, BGBC-21, BGBC-25 and BGBC- 35) and two remained the same (BGBC-19 & BGBC-23) when compared to the 2018 results.

Table 2.3 Results of Nitrogen Dioxide Diffusion Tubes for 2011 through to and including 2019.

Site Name	Annual Mean Concentrations ($\mu\text{g}/\text{m}^3$)								
	2011 Adjusted for bias (0.82)	2012 Not adjusted for bias	2013 Adjusted for bias (0.87)	2014 Adjusted for bias (0.97)	2015 Adjusted for bias (0.95)	2016 Adjusted for bias (1.03)	2017 Adjusted for bias (0.96)	2018 Adjusted for bias (0.89)	2019 Adjusted for bias (0.89)
BGBC-01	19	19.1	17	16.1	13.7	16.9	14.2	17.2	15.7
BGBC-03	15.3	16.1	13.1	12.9	10.4	12.3	10.5	n/a	n/a
BGBC-04	10.4	11.1	9.5	8.3	6.9	7.7	7.3	7.7	7.3
BGBC-05	15.5	15.8	13.6	12.9	11.1	13.2	11.1	12.9	12
BGBC-07	17.8	17.3	14.8	15.1	13.8	14.6	12.6	12.6	13.6
BGBC-09	19.1	19.4	17.4	17.6	14.4	16.4	13.9	n/a	n/a
BGBC-11	12.6	13.7	11.9	11.4	9.5	11.4	9.7	10.7	9.9
BGBC-13	6.4	7.2	6.6	6.7	4.8	5	4.8	4.8	4.9
BGBC-16	24	24.8	20	18.3	18.3	19.5	18.9	18.1	18.9
BGBC-17	16.5	19.1	16.2	15.3	13.1	15.4	13.7	14.9	12.9
BGBC-18	21.5	22.4	20.5	20.3	17.3	20.6	17.4	20.2	15.3
BGBC-19	24.5	25.7	20.3	20.8	19.8	23	20.1	21.4	21.4
BGBC-20	26.5	25.8	22.6	23.4	18.9	22.1	19.6	22.3	21.2
BGBC-21	17.6	18.6	15.5	15.4	12.4	13.8	12.4	11.7	12.4
BGBC-22	18.4	19.1	15.7	16	13.7	16.5	13.4	15.7	13.7
BGBC-23	16.1	16.9	14.3	15.5	12.2	14.1	11.6	12.5	12.5
BGBC-24	20.9	21.8	16.6	17.5	13.6	12.9	12	12.6	12
BGBC-25	15.2	16.7	14.4	12.2	9.9	12.7	11.4	12.2	12.6
BGBC-26	16.1	17.7	14.2	13.6	13.1	14.9	13.1	14	13.9
BGBC-27	n/a	n/a	n/a	12.4	9.4	8.4	8.3	8.7	8.3
BGBC-28	n/a	n/a	n/a	10	6.8	8.7	7.5	8.7	8.1
BGBC-29	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.4	7.2
BGBC-30	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8.5	7.7
BGBC-31	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.4	6
BGBC-32	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.3	8.6
BGBC-34	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.2	7.7
BGBC-35	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.8	11.2
BGBC-36	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12	11.2
BGBC-37	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8.5	7.5

Figure 2: Measured levels of nitrogen dioxide for 2011-2019 compared with AQO



2.3.2 Particulate Matter (PM₁₀)

Blaenau Gwent CBC does not currently undertake any monitoring for particulate matter (PM₁₀).

2.3.3 Particulate Matter (PM_{2.5})

Blaenau Gwent CBC does not currently undertake any monitoring for particulate matter (PM_{2.5}).

2.3.4 Other Pollutants Monitored

Blaenau Gwent CBC does not currently undertake any monitoring for any other pollutants.

2.4 Summary of Compliance with AQS Objectives as of 2019

Blaenau Gwent CBC has examined the results from monitoring in the borough. Concentrations are all below the Objectives, therefore no further action is required.

3. New Local Developments

3.1 Road Traffic Sources (and Other Transport)

Blaenau Gwent CBC confirms that there are no new/ newly identified narrow congested streets with residential properties close to the kerb or busy streets where people may spend one hour or more close to traffic. Also there are no new/newly identified roads with high flows of buses and/or HGVs.

Blaenau Gwent CBC confirms that there are no new/newly identified busy junctions or roads with significantly changed traffic flows within the local authority area. Also there are no new bus stations within the local authority area.

Construction works are continuing on the A465 Heads of the Valleys Road, Section 2 Brynmawr to Gilwern, Dualling scheme.

3.2 Industrial / Fugitive or Uncontrolled Sources / Commercial Sources

Blaenau Gwent CBC confirms that there are no new or proposed industrial installations for which an air quality assessment has been carried out and there are no existing industrial installations where emissions have increased substantially or new relevant exposure has been introduced. Blaenau Gwent CBC also confirms that there are no new or significantly changed installations with no previous air quality assessment within the local authority area.

Blaenau Gwent CBC confirms that there are no major fuel (petrol) storage depots, no new petrol stations or no poultry farms within the local authority area.

Blaenau Gwent CBC confirms that there are no new potential sources of fugitive or uncontrolled particulate matter, new landfill sites, quarries, unmade haulage roads on industrial sites or waste transfer stations within the local authority area.

Blaenau Gwent CBC confirms that there are no new biomass combustion plant and there are no areas of significant domestic solid fuel burning within the local authority area.

3.3 Planning Applications

Each planning application is judged on its merits and due regard is given to the Planning Policy Wales document regarding Air Quality published by the Welsh Government, and other relevant guidance.

A link to the Local Development Plan (LDP) is available at-

<http://www.blaenau-gwent.gov.uk/en/resident/planning/>

The Planning Division classify applications that are received into minor and major developments in accordance with the Welsh Office Planning Statistics guidance. Major developments are classified as being the following:

- major dwelling is 10 or more dwellings or if an outline application 0.5 hectares
- For other types of applications major equates to 1000m² floor area or 1 hectare if the application is in outline

Table 3.1: Applications For Major Developments Received And Approved During 2019

Planning Reference	Type of development	Location	Potential Impact on Local Air Quality
C/2019/0005	Residential development of 277 units, including associated works	College Road, Ebbw Vale.	Low
C/2019/0054	Construction of 6 buildings to provide 25 employment units for B1 and B2 uses	Lime Avenue, Ebbw Vale.	Low
C/2019/0009	Construction of new business units (Class B1/B2/B8 and ancillary uses) and associated parking areas, external works	Rassau Industrial Estate, Ebbw Vale.	Low

C/2018/0310	Detailed application for erection of a 4955 sq.m (50,000 sq.ft) employment unit for B1, B2 or B8 uses, with highway & site access, car parking, service area, sub-station, along with footpath and cycleway provision, drainage & landscaping.	Rhyd Y Blew, Ebbw Vale.	Low
C/2019/0035	Full planning application for the provision of 3 retail units (Unit 2 Class A1 convenience food store, Unit 3 Class A1 comparison and flexible use for Unit 4 Classes A1/A2/A3) and associated works.	Blaina Road, Brynmawr	Low
C/2018/0334	Household waste facility, new access road, associated infrastructure and shop	Roseheyworth Business Park, Abertillery	Low
C/2019/0237	Outline application for demolition of Tredegar Health Centre, partial demolition of Tredegar General Hospital and erection of a new Class D1 Health and Wellbeing Centre including revised access, car parking, landscaping and ancillary works (all matters aside from access reserved).	Park Row, Tredegar	Low

3.3.2 Major Planning Applications Approved 2019

None of the above major planning applications that were received and approved in 2019 were considered to have a potential negative impact on air quality within the Blaenau Gwent area.

3.3.3 Major Planning Applications 2020

No major planning applications were received by Blaenau Gwent CBC in 2020, at the time of writing this report, that were identified as having the potential to impact on local air quality.

3.4 Other Sources

Blaenau Gwent CBC confirms that during 2019 there were no significant pollution incidents that would impact on local air quality.

Blaenau Gwent CBC confirms that there are no new or newly identified local developments which may have an impact on air quality within the Local Authority area.

Blaenau Gwent CBC confirms that all the following have been considered:

- **Road traffic sources**
- **Other transport sources**
- **Industrial sources**
- **Commercial and domestic sources**
- **New developments with fugitive or uncontrolled sources.**

4. Policies and Strategies Affecting Airborne Pollution

4.1 Local / Regional Air Quality Strategy

Blaenau Gwent CBC has a Departmental Air Pollution Control Policy and Procedure document to facilitate the management of Air Quality with the Borough.

Blaenau Gwent CBC has not developed an air quality strategy and at this time does not propose to do so.

Blaenau Gwent CBC actively participates in the work of the Welsh Air Quality Forum which assists in co-ordinating the management of Air Quality at an all Wales level amongst the 22 Local Authorities and other partners.

Further information regarding the work of the Welsh Air Quality Forum is available at

<http://www.welshairquality.co.uk/>

4.2 Air Quality Planning Policies

Blaenau Gwent CBC does not have a specific air quality planning policy however it is outlined as a development management policy within the Local Development Plan that 'the proposal does not result in airborne emissions which have an unacceptable effect on the health, amenity or natural environment of the surrounding area, taking into account cumulative effects of other proposed or existing sources of air pollution in the vicinity.'

4.3 Local Transport Plans and Strategies

Local Authorities are now required to produce individual transport plans however the South East Wales Valleys Authorities (Blaenau Gwent, Caerphilly, Merthyr Tydfil, Rhondda Cynon Taff and Torfaen) got together produced a joint plan that was published in January 2015.

The South East Wales Valleys Local Transport Plan (January 2015) can be viewed at the following website:

<http://www.rctcbc.gov.uk/EN/Resident/ParkingRoadsandTravel/Travel/TransportSchemesandPolicies/TransportPolicyandlocalTransportPlan.aspx>

The local transport plan sets down the vision and objectives for transport in the SE Wales Valleys area and provides a short and long term programme for interventions to work towards achieving these goals. The short term programme sets down those schemes that are priorities for 5 years up to 2020. The longer term programme identifies aspirations up to 2030.

Part of the process of the development of the Local Transport Plan requires the production of a Strategic Environmental Assessment (SEA) which will give consideration to air quality issues.

The Strategic Environmental Assessment Baseline Study Report and Scoping Report are also available at the above website.

4.4 Active Travel Plans and Strategies

As a requirement of the Active Travel (Wales) Act 2013 Blaenau Gwent CBC has recently developed an integrated network map (INM) that identifies the proposed improvements to the Borough's active travel network. This has been approved by the Welsh Government, who have provided funding in 2018/19 for the council to develop and design proposals identified within the INM and Blaenau Gwent CBC will be submitting bids for delivery funding in future years.

4.5 Local Authorities Well-being Objectives

Air quality was considered as part of the local well-being assessment carried out by the Blaenau Gwent Public Service Board which has resulted in well-being objective number 3 being introduced which is- "Blaenau Gwent wants to look after and protect

its natural environments.” The key steps identified by the Blaenau Gwent Public Services Board in order to meet this objective include-

- Lead on taking action against climate change through the delivery of a carbon positive project.
- Promote active travel to reduce our collective carbon footprint.
- Make Blaenau Gwent a cleaner, greener place where nature can thrive.

4.6 Green Infrastructure Plans and Strategies

Working collaboratively with Welsh Government over the past 12 months the 5 local Authorities in Greater Gwent (Blaenau Gwent, Torfaen, Monmouthshire, Caerphilly and Newport) have secured £4M funding under (ENRaW) on a range of projects and ways of working to protect and enhance the areas natural environment . The agreed delivery plans will provide a regional approach to Green Infrastructure across the Greater Gwent Area, as well as providing additional of site based initiatives such as woodland management, urban tree planting, community engagement etc.

4.7 Climate Change Strategies

As part of its commitment to corporate contribution towards the reduction of greenhouse gases emissions from all its activities and as part of the Climate Change programme Blaenau Gwent CBC has developed an Energy Policy to ensure the effective and efficient use and management of energy.

The Energy Policy compliments the seven core values of the Councils Community plan and contributes to the overall strategic aims of the Local Authority.

The Energy Policy was produced in 2012 and was due to be reviewed and updated however due to staff resource issues this has not happened and there is currently no timescale in place for when this work will be done. A copy of the Energy Policy was provided in the 2017 Air Quality Progress Report.

5. Conclusions and Proposed Actions

5.1 Conclusions from New Monitoring Data

Blaenau Gwent CBC has examined the results from monitoring in the Borough of Blaenau Gwent for the period of 2019. Concentrations are all below the relevant UK National Air Quality Objectives.

5.2 Conclusions relating to New Local Developments

Blaenau Gwent CBC has assessed all new or significantly changed sources in the Borough and relevant new or significantly changes sources in nearby Local Authority areas and has concluded that it is unlikely that the impact of these will result in a potential exceedance of any of the UK National Air Quality Objectives within the Borough.

5.3 Other Conclusions

This report has not identified the need to proceed to a Detailed Assessment for any pollutant relevant to the UK National Air Quality Objectives.

5.4 Proposed Actions

Blaenau Gwent CBC will continue to monitor for Nitrogen Dioxide subject to the continuous review and assessment of the existing and newly identified monitoring sites for the calendar year of 2021.

Blaenau Gwent County Borough Council

It is proposed that the results of monitoring carried out during the calendar year of 2020 will be presented in the 2021 Air Quality Progress Report which will be prepared as part of the Updating and Screening Assessment process.

References

Blaenau Gwent CBC, (1999), 1999 First Stage Review and Assessment, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2003), 2003 Updating and Screening Assessment, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2004), 2004 Progress Report, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2005), 2005 Progress Report, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2006), 2006 Updating and Screening Assessment, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2007), 2007 Progress Report, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2008), 2008 Progress Report, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2009), 2009 Updating and Screening Assessment, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2010), 2010 Progress Report, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Blaenau Gwent CBC, (2011) 2011 Progress Report, <http://www.blaenau-gwent.gov.uk/environment/2774.asp>

Capita Symonds, (2011), Travel In Greater Gwent 2010 – Summary Report, Capita Symonds, Cwmbran.

DEFRA, (2009), Local Air Quality Management - Technical Guidance LAQM.TG(09), DEFRA.

Air Quality Review and Assessment Helpdesk Website, <http://laqm.defra.gov.uk/>

Nitrogen Dioxide Diffusion Tube Precision Results for Laboratories. <http://laqm.defra.gov.uk/diffusion-tubes/precision.html>

WASP Scheme results for Laboratory- <http://laqm.defra.gov.uk/diffusion-tubes/qa-qc-framework.html>

Appendices

Appendix A: Monthly Diffusion Tube Monitoring Results

Appendix B: A Summary of Local Air Quality Management

Appendix C: Blaenau Gwent CBC boundary area and diffusion tube location plan

Appendix D: Individual location plans for all diffusion tubes within Blaenau Gwent for 2019.

Appendix A: Monthly Diffusion Tube Monitoring Results

Table A.1 – Full Monthly Diffusion Tube Results for 2019

SITE	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Mean-Raw data	Annual Mean-Bias adjusted (0.89)
BGBC-01	18.87	21.1	14.62	26.51	16.05	17.85	13.28	8.92	18.22	19.22	22.68	14.62	17.60	15.70
BGBC-04	9.92	11.44	7.84	7.49	5.68	6.35	5.13	5.39	6.79	10.13	11.24	11.14	8.20	7.30
BGBC-05	20.88	15.86	13.49	12.41	12.03	11.86	11.04	9.37	11.70	13.83	18.14	12.34	13.50	12.00
BGBC-07	24.27	17.25	16.09	12.57	13	11.67	11.27	9.08	13.82	x	21.93	17.35	15.30	13.60
BGBC-11	18.94	13.88	10.69	11	8.7	7.97	8.57	6.93	8.86	10.38	17.05	11.22	11.10	9.90
BGBC-13	5.79	6.7	4.73	5.9	4.1	4.49	3.82	5.28	4.80	6.56	9.16	4.84	5.50	4.90
BGBC-16	27.43	26.2	20.94	15.07	18.64	18.46	15.69	17.59	19.61	20.33	27.37	26.45	21.10	18.90
BGBC-17	x	21.48	14.8	16.45	13.77	12.23	11.24	9.25	14.71	16.66	x	x	14.5	12.90
BGBC-18	19.75	22.74	17.6	15.64	13.96	13.55	11.86	12.76	15.57	20.39	22.88	20.06	17.20	15.30
BGBC-19	26.8	30.92	22.72	27.63	20.28	21.58	19.20	19.33	21.48	23.69	31.18	25.19	24.10	21.40
BGBC-20	25.21	26.2	22.7	29.72	21.99	22.60	22.58	17.98	22.79	21.28	31.52	23.04	23.90	21.20
BGBC-21	19.36	18.53	14.81	12.09	12.55	10.81	11.28	11.28	12.08	13.62	18.26	13.03	13.90	12.40
BGBC-22	16.8	18.51	15.79	21.66	13.29	13.27	12.06	9.70	14.42	15.79	19.73	14.80	15.40	13.70
BGBC-23	17.56	19.4	11.9	13.36	12.37	11.29	9.86	9.31	12.44	14.87	21.41	15.80	14.10	12.50

BGBC-24	15.7	22.13	12.21	13.32	11.81	10.79	9.98	12.58	12.65	16.48	19.05	14.83	14.20	12.00
BGBC-25	14.14	15.56	12.12	13.01	11.42	11.62	11.40	9.82	x	13.90	17.24	12.14	12.90	12.60
BGBC-26	25.64	21.48	15.04	12.27	12.75	12.37	9.60	9.97	12.68	15.66	21.38	19.25	15.60	13.90
BGBC-27	10.08	12.65	8.76	11.47	7.97	7.41	7.30	6.47	9.06	10.83	12.03	8.39	9.30	8.30
BGBC-28	11.32	12.79	8.4	10.29	7.41	7.11	5.84	6.04	7.43	10.39	13.15	9.32	9.10	8.10
BGBC-29	10.67	12.36	8.36	8.17	6.08	6.03	5.02	5.08	7.13	7.73	13.15	8.24	8.10	7.20
BGBC-30	12.47	10.49	7.99	10.71	7.75	7.05	6.00	5.10	8.34	9.05	10.60	9.84	8.70	7.70
BGBC-31	7.15	11.43	5.25	7.42	5	4.88	4.99	5.22	6.12	9.29	x	9.09	6.80	6.00
BGBC-32	14.29	11.91	8.91	8.27	7.63	5.78	5.97	6.28	8.81	10.61	17.55	10.99	9.70	8.60
BGBC-34	13.36	13.4	8.58	9.23	6.5	5.71	5.26	5.46	7.75	9.71	x	10.54	8.60	7.70
BGBC-35	14.55	17.13	11.87	11.31	9.85	9.42	8.59	8.38	10.36	26.55	x	11.10	12.60	11.20
BGBC-36	14.65	16.22	13.14	12.9	10.07	10.36	7.76	8.69	11.59	14.84	17.71	14.37	12.60	11.20
BGBC-37	11.75	12.61	7.13	7.11	6.89	6.58	5.63	6.17	7.02	x	16.19	6.32	8.40	7.50

Notes:

Exceedances of the NO₂ annual mean objective of 40µg/m³ are shown in **bold**.

NO₂ annual means exceeding 60µg/m³, indicating a potential exceedance of the NO₂ 1-hour mean objective are shown in **bold and underlined**.

Appendix B: A Summary of Local Air Quality Management

Purpose of an Annual Progress Report

This report fulfils the requirements of the Local Air Quality Management (LAQM) process as set out in the Environment Act 1995 and associated government guidance. The LAQM process places an obligation on all local authorities to regularly review and assess air quality in their areas and to determine whether or not the air quality objectives are being achieved. Where exceedances occur, or are likely to occur, the local authority must then declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) within 18 months of declaration setting out the measures it intends to put in place in pursuit of the objectives. Action plans should then be reviewed and updated where necessary at least every 5 years.

For Local Authorities in Wales, an Annual Progress Report replaces all other formal reporting requirements and have a very clear purpose of updating the general public on air quality, including what ongoing actions are being taken locally to improve it if necessary.

Air Quality Objectives

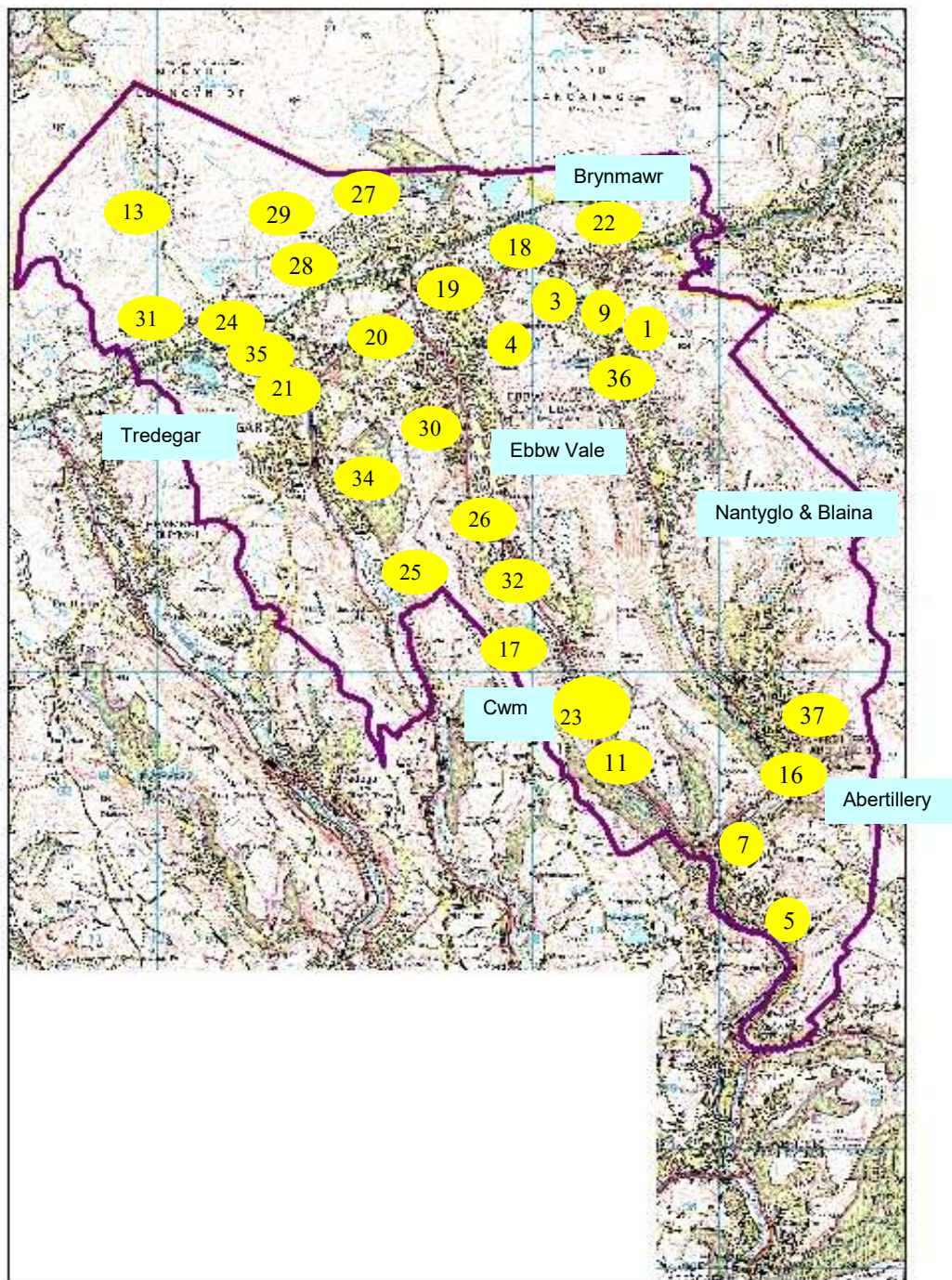
The air quality objectives applicable to LAQM in Wales are set out in the Air Quality (Wales) Regulations 2000, No. 1940 (Wales 138), Air Quality (Amendment) (Wales) Regulations 2002, No 3182 (Wales 298), and are shown in Table B.1.

The table shows the objectives in units of microgrammes per cubic metre $\mu\text{g}/\text{m}^3$ (milligrammes per cubic metre, mg/m^3 for carbon monoxide) with the number of exceedances in each year that are permitted (where applicable).

Table B.1 – Air Quality Objectives Included in Regulations for the Purpose of LAQM in Wales

Pollutant	Air Quality Objective		Date to be achieved by
	Concentration	Measured as	
Nitrogen Dioxide (NO ₂)	200µg/m ³ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
	40µg/m ³	Annual mean	31.12.2005
Particulate Matter (PM ₁₀)	50µg/m ³ , not to be exceeded more than 35 times a year	24-hour mean	31.12.2010
	40µg/m ³	Annual mean	31.12.2010
Sulphur dioxide (SO ₂)	350µg/m ³ , not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
	125µg/m ³ , not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
	266µg/m ³ , not to be exceeded more than 35 times a year	15-minute mean	31.12.2005
Benzene	16.25µg/m ³	Running annual mean	31.12.2003
	5µg/m ³	Annual mean	31 12 2010
1,3 Butadiene	2.25µg/m ³	Running annual mean	31.12.2003
Carbon Monoxide	10.0mg/m ³	Maximum Daily Running 8-Hour mean	31.12.2003
Lead	0.25µg/m ³	Annual Mean	31.12.2008

Appendix C: Blaenau Gwent boundary area and diffusion tube location plan



Appendix D: Individual location plans for all diffusion tubes within Blaenau Gwent 2019



Blaenau Gwent County Borough Council

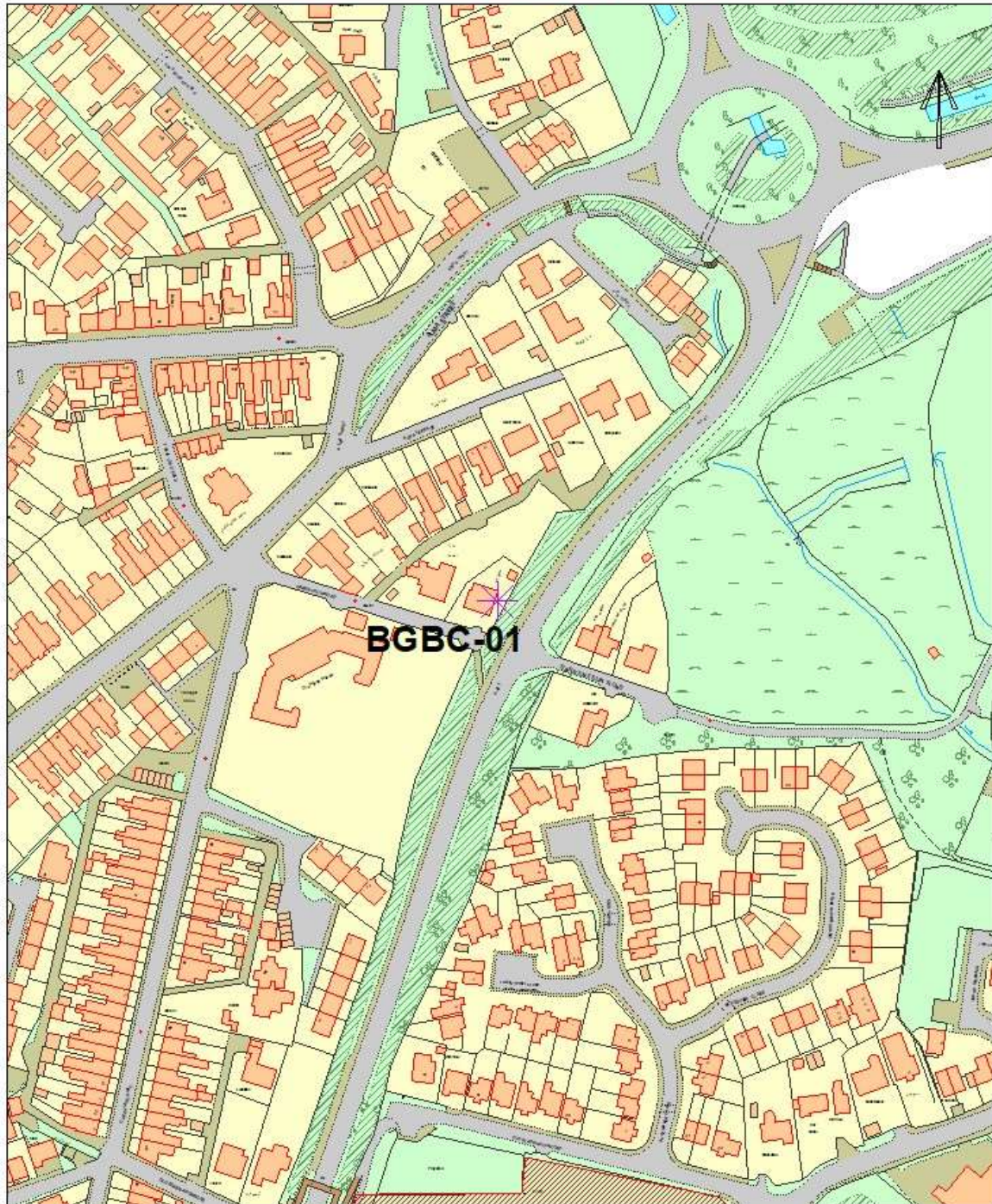
Location: BGBC-01- The Darren, Daren-felen Road, Brynmawr

Easting: 319540 **Northing:** 211953

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyffia Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-04- 22 Parkhill, Beaufort, Ebbw Vale

Easting: 317307 **Northing:** 211285

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

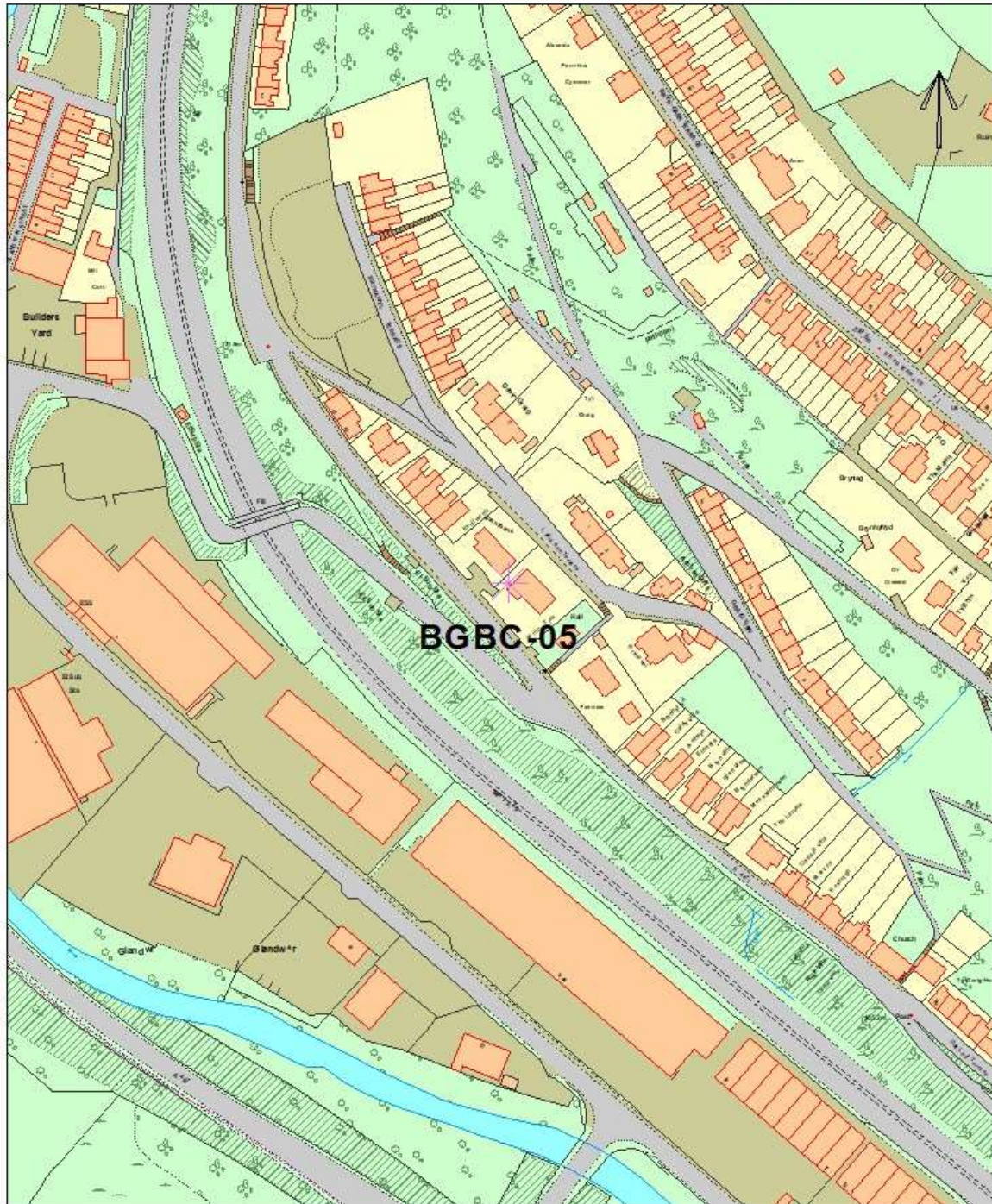
Location: BGBC-05- Willow Tree Bungalow, Aberbeeg

Easting: 321132 **Northing:** 201113

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



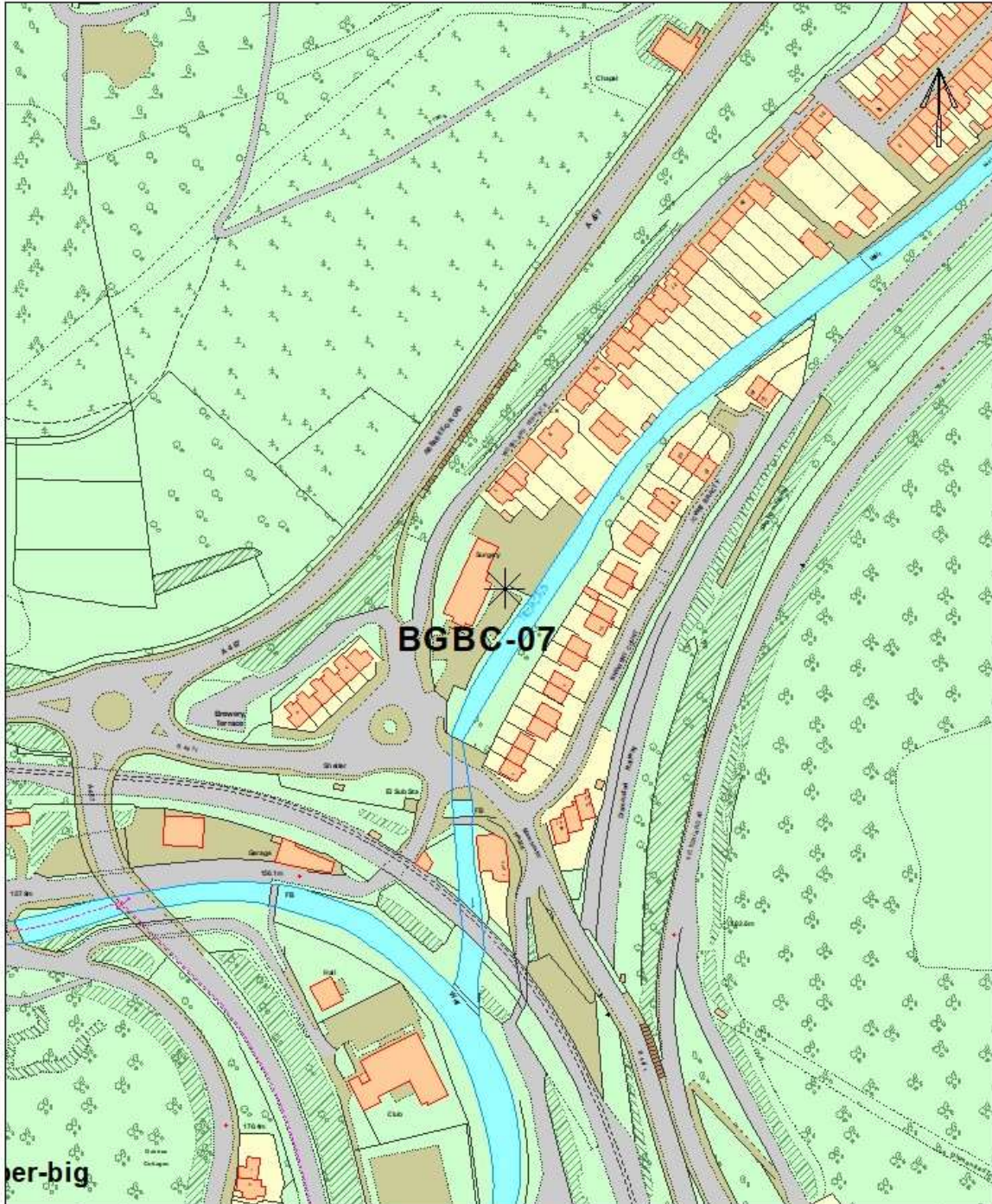


Blaenau Gwent County Borough Council

Location: **BGBC-07 - Aberbeeg Medical Centre, Aberbeeg**

Easting: 320969 Northing: 202021

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

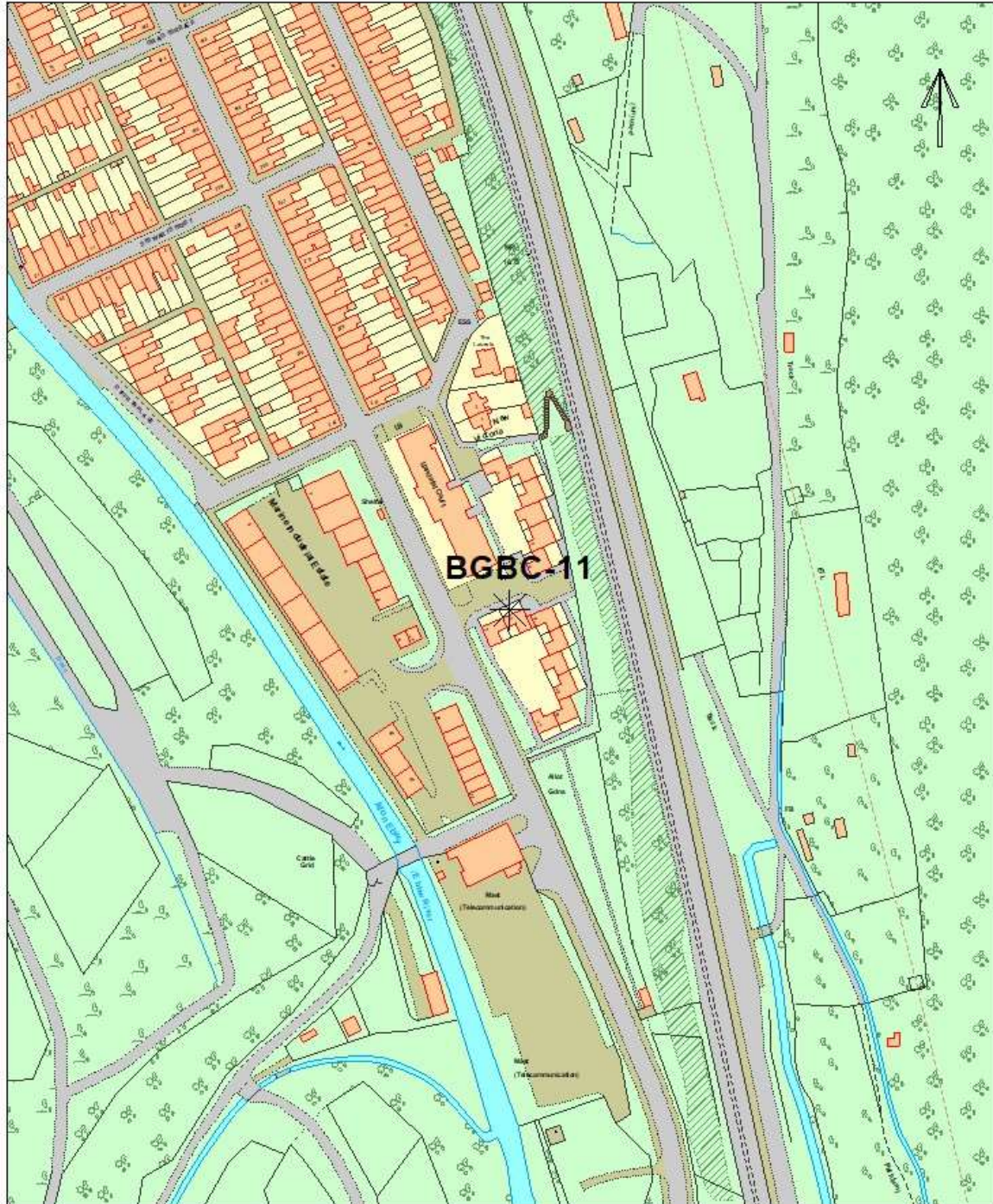
Location: BGBC-11- 8 Cwm Graig Bungalows, Marine Street, Cwm

Easting: 318785 **Northing:** 204596

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffrnt y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffrnt y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



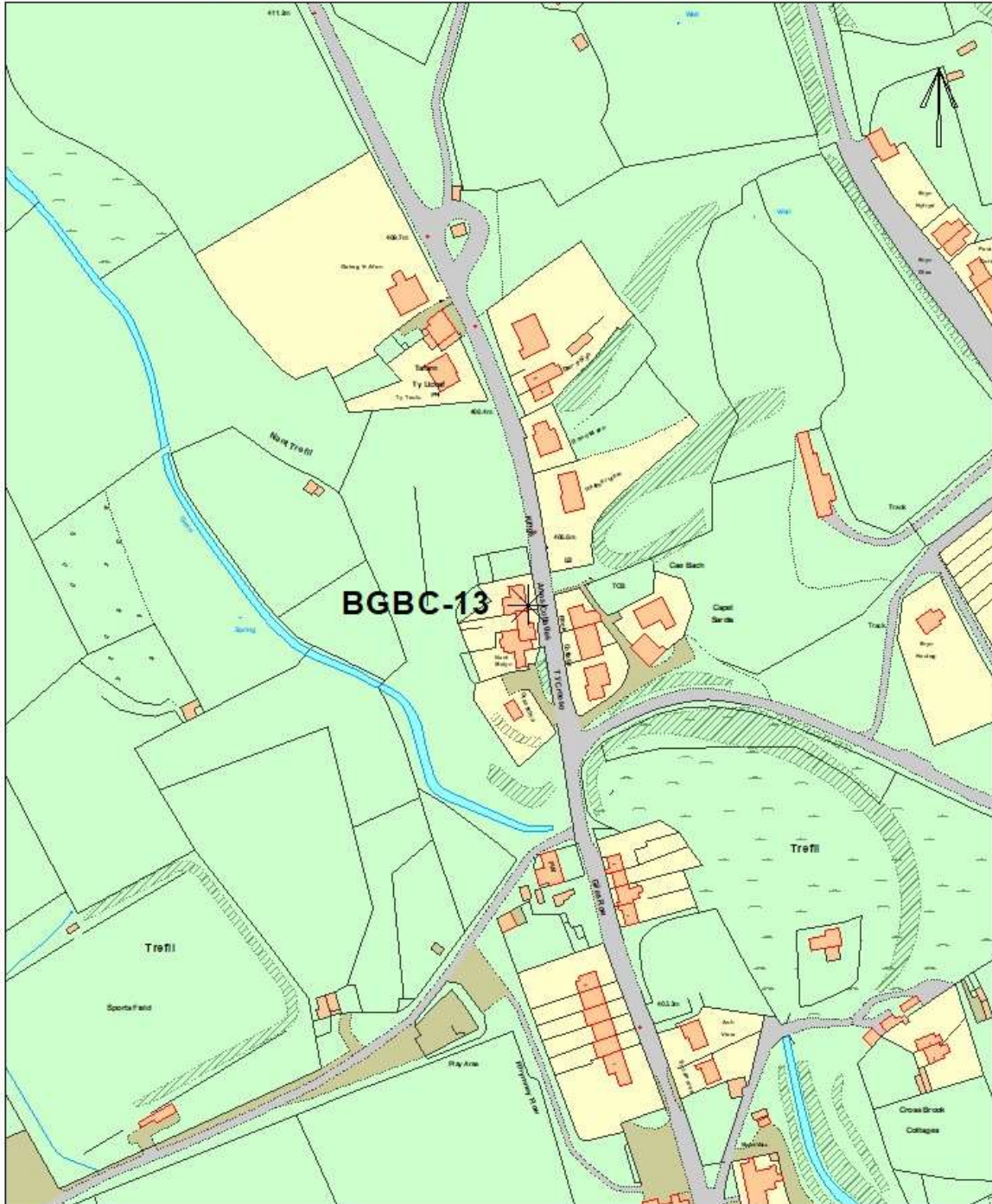


Blaenau Gwent County Borough Council

Location: BGBC-13- 3 Kings Arms Cottages, Trefil, Tredegar

Easting: 312004 **Northing:** 212779

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



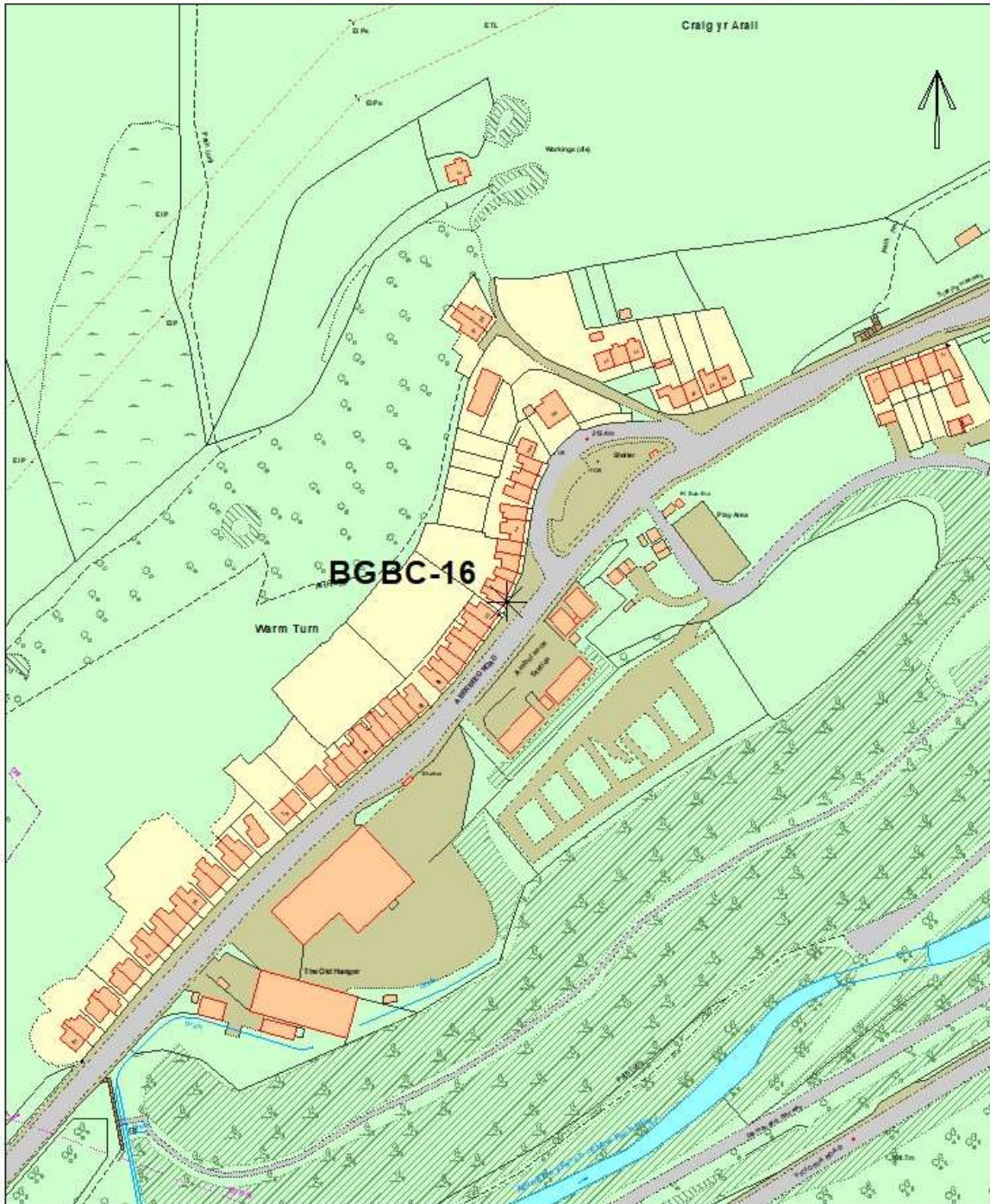


Blaenau Gwent County Borough Council

Location: BGBC-16- 49 Aberbeeg Road, Aberbeeg

Easting: 321432 **Northing:** 202667

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



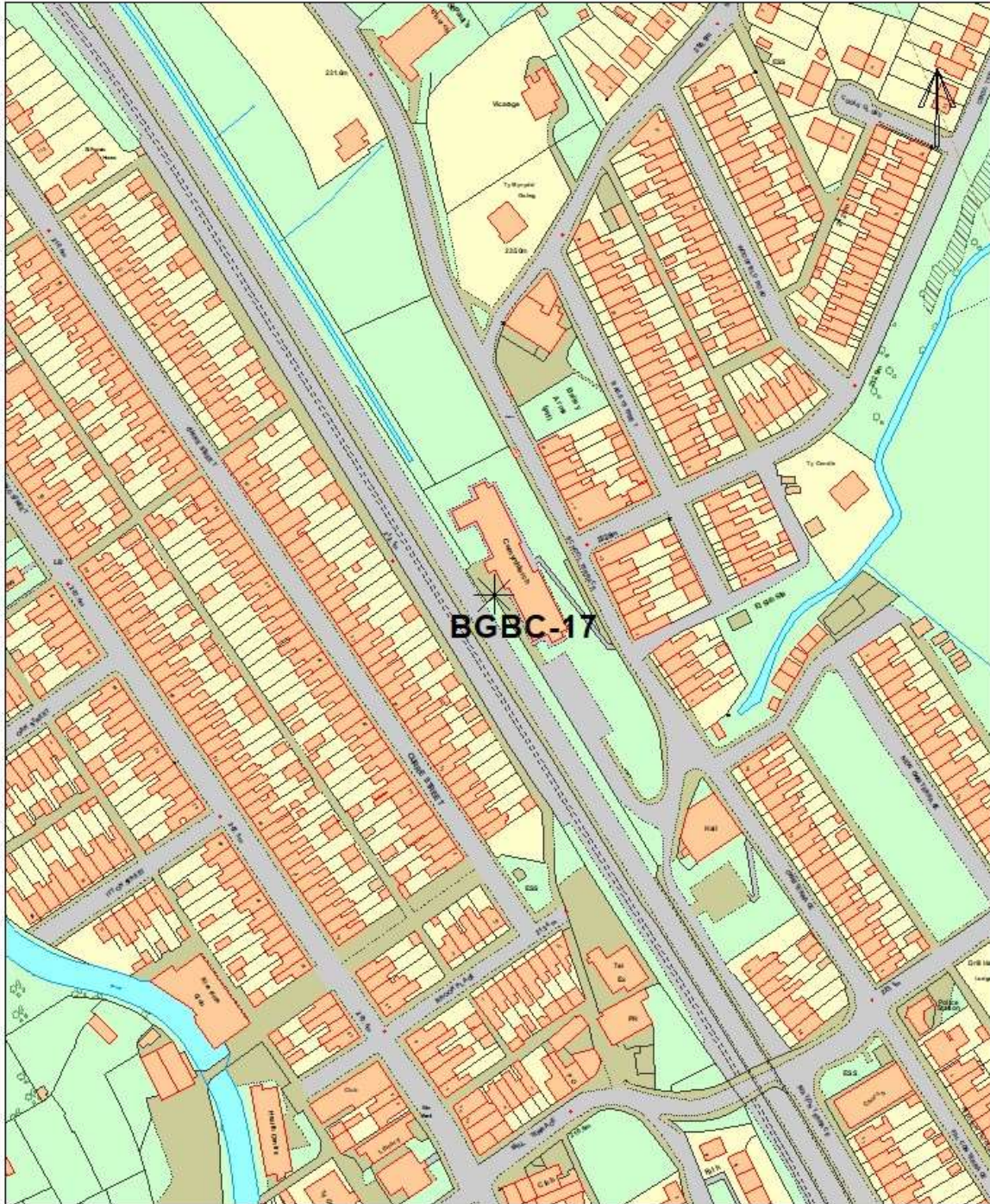


Blaenau Gwent County Borough Council

Location: BGBC-17- Cwmyrdderch Court, School Terrace, Cwm, E

Easting: 318437 **Northing:** 205529

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

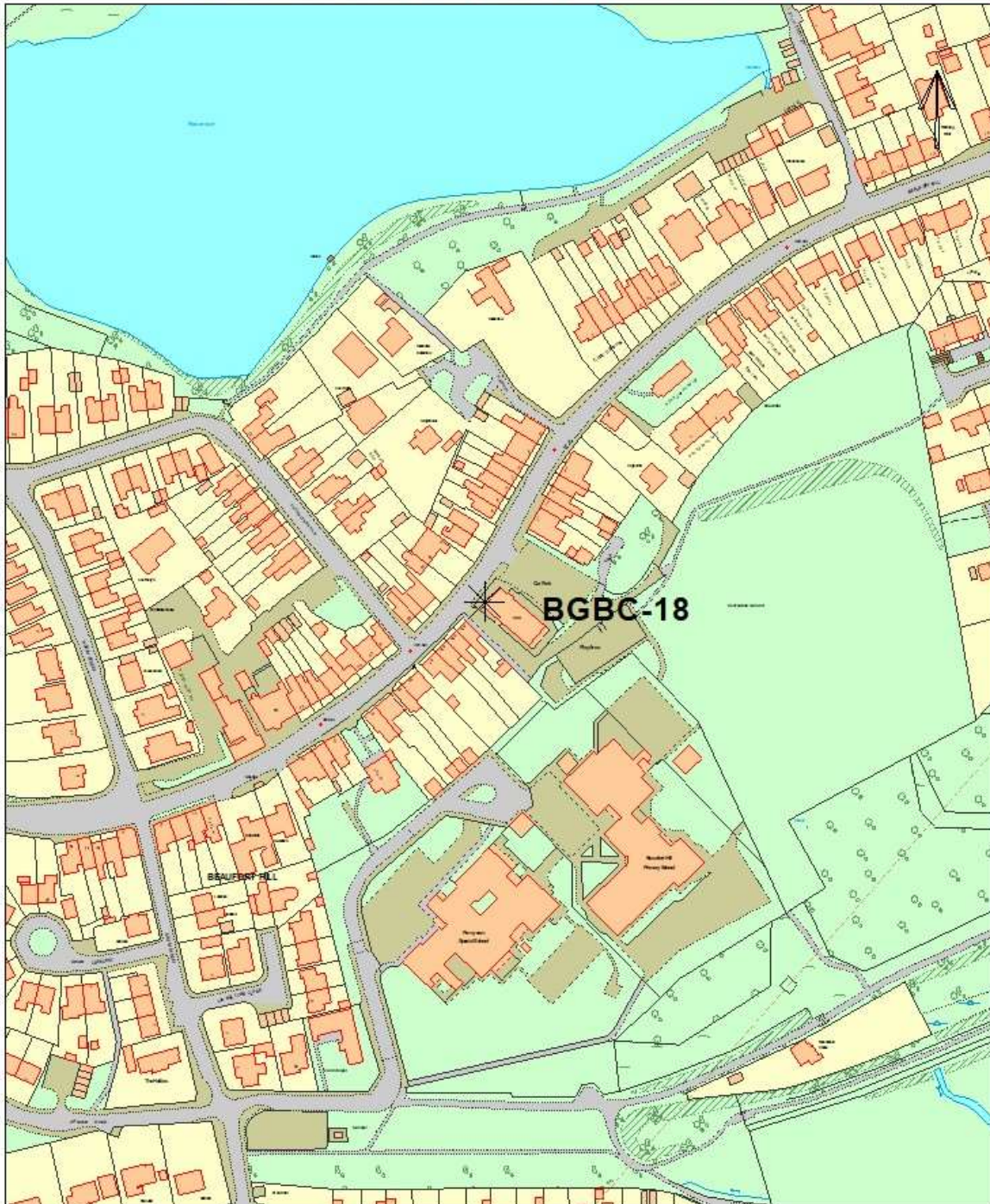
Location: BGBC-18- Welfare Hall, Beaufort Hill, Ebbw Vale

Easting: 317543 **Northing:** 211693

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-19- 42 Beaufort Rise, Ebbw Vale

Easting: 316672 **Northing:** 211595

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-20- 122 Beaufort Road, Tredegar

Easting: 314854 **Northing:** 210235

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyffa Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



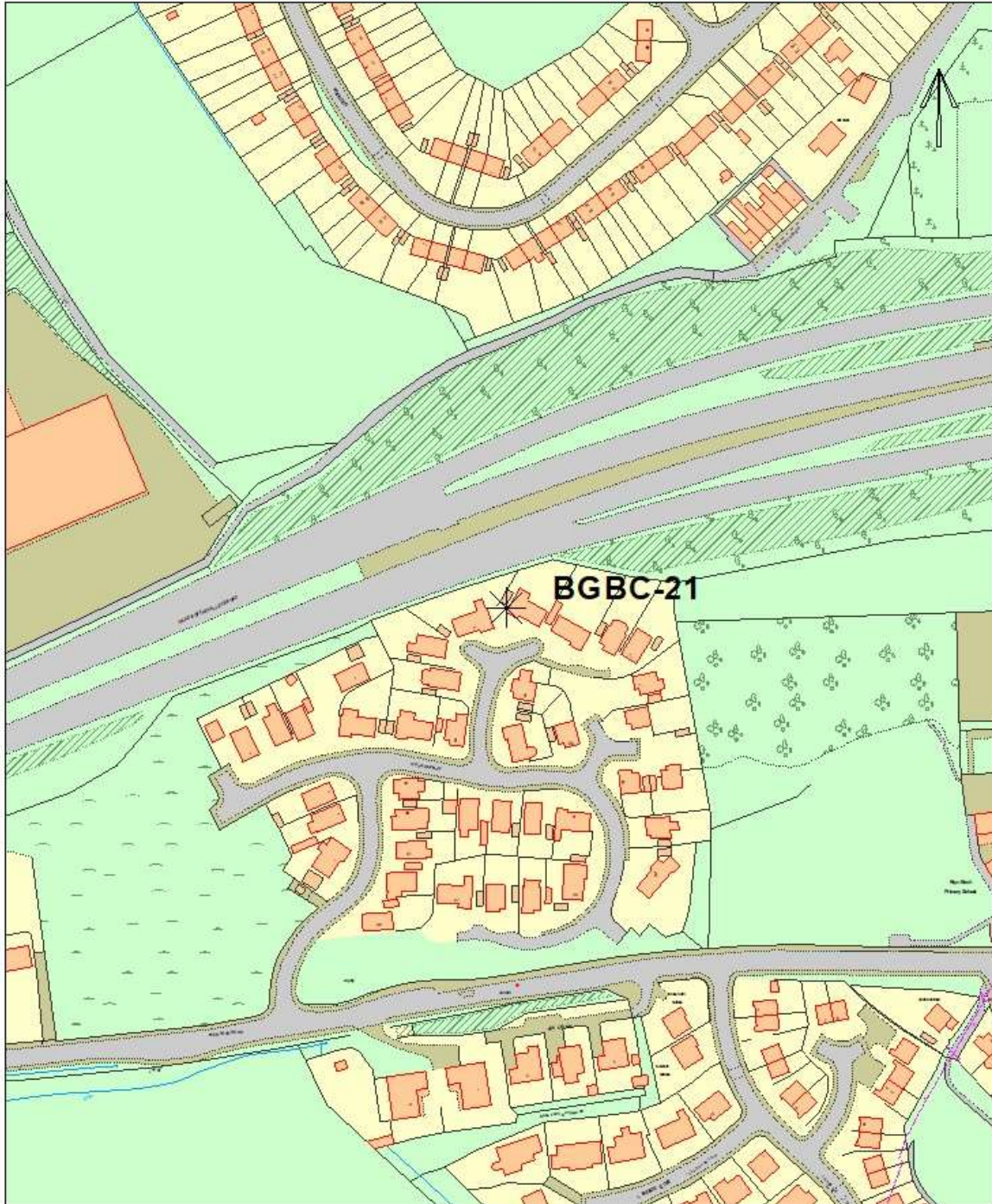


Blaenau Gwent County Borough Council

Location: BGBC-21- 14 Bryn Rhosyn, Merthyr Road, Tredegar

Easting: 312842 **Northing:** 210590

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-22- 2 King Street, Brynmawr

Easting: 319561 **Northing:** 212138

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyffia Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

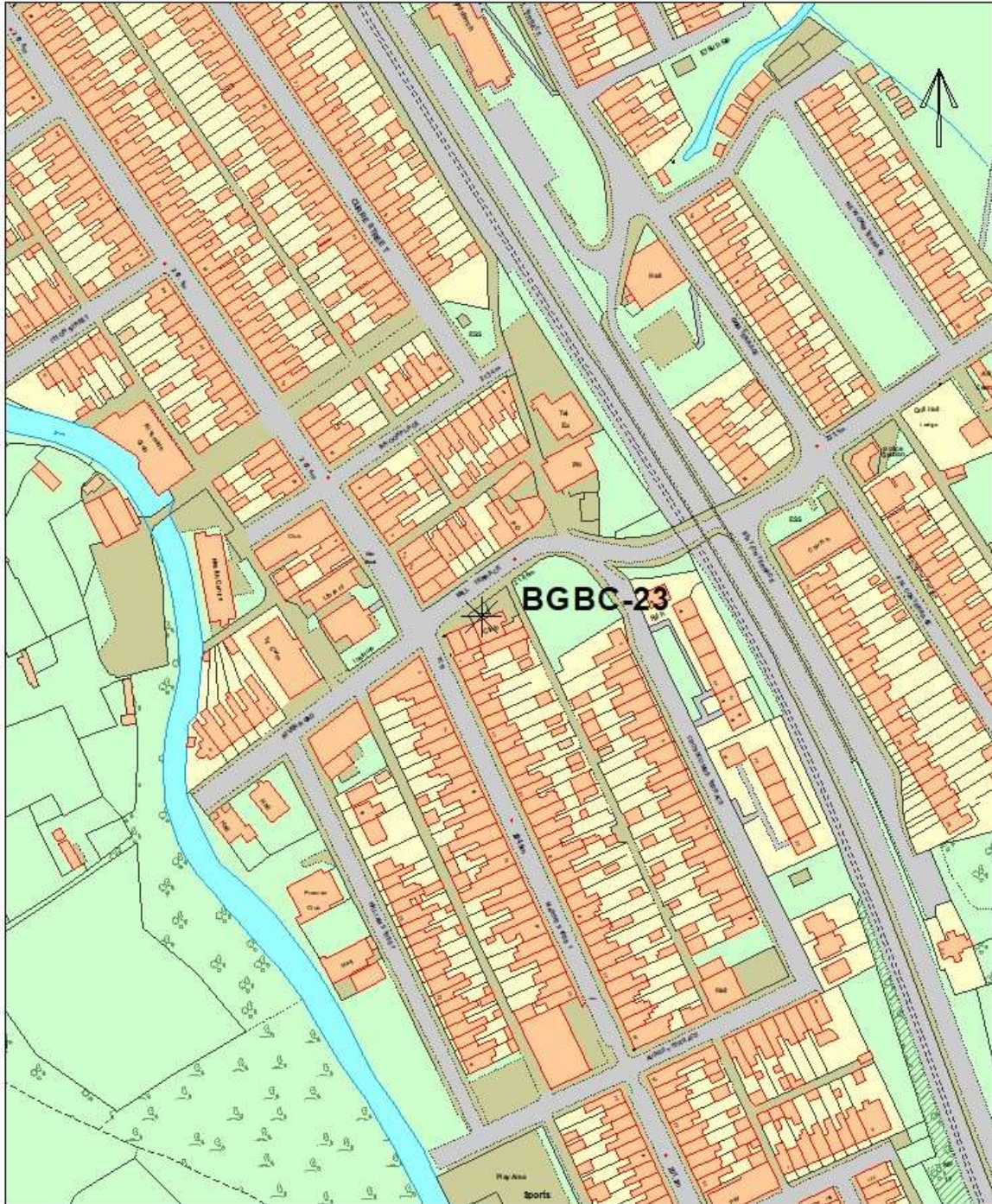
Location: BGBC-23- Cwm Conservative Club, Mill Terrace, Cwm

Easting: 318459 **Northing:** 205313

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyffia Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-24-4 Glen View, Nantybwhch, Tredegar

Easting: 313147 **Northing:** 210770

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyffa Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-25- Red Rose Care Centre, Park Road, Ebbw Val

Easting: 316990 **Northing:** 207896

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

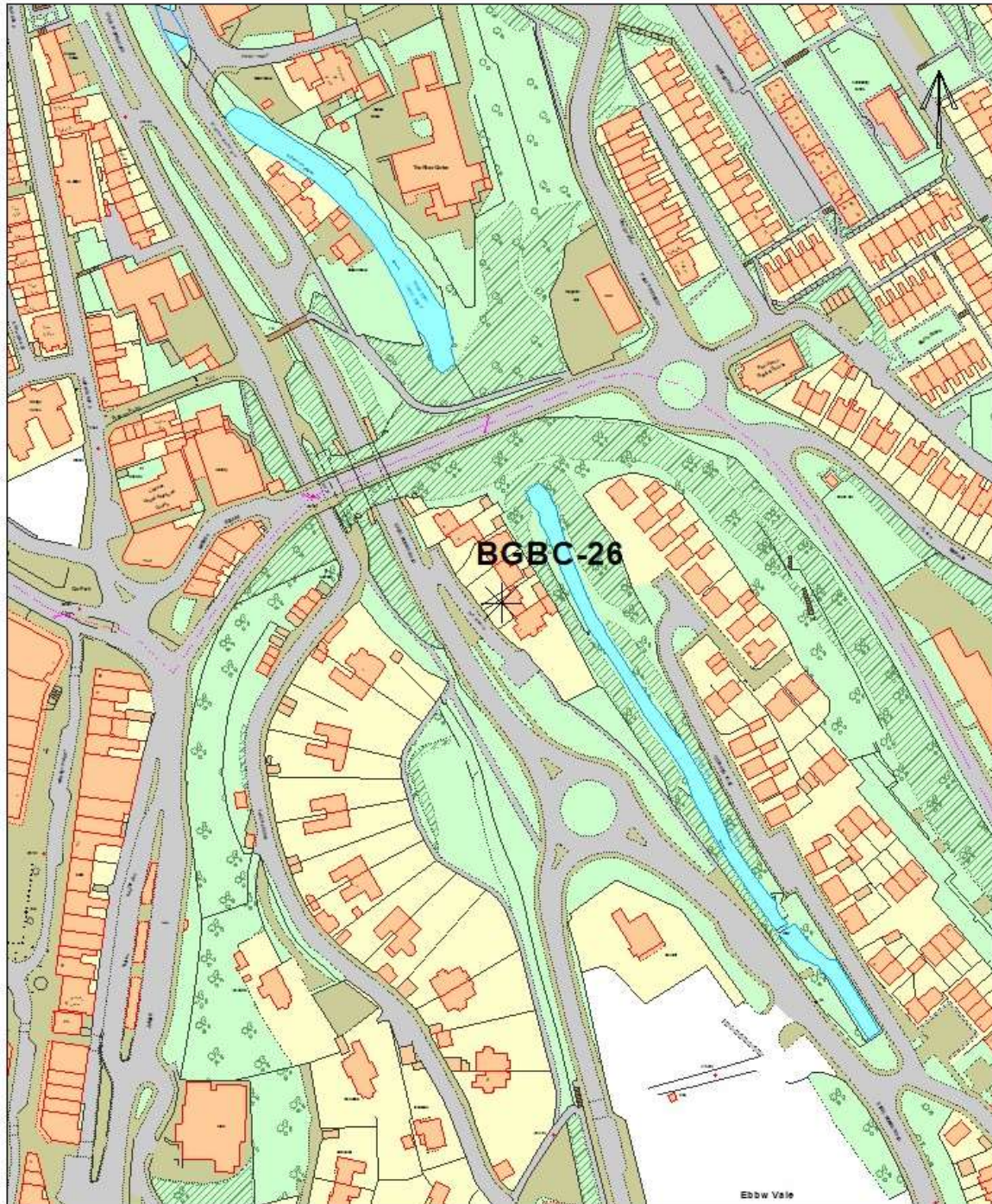
Location: BGBC-26- 2 The Dingle, Ebbw Vale

Easting: 316979 **Northing:** 209842

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



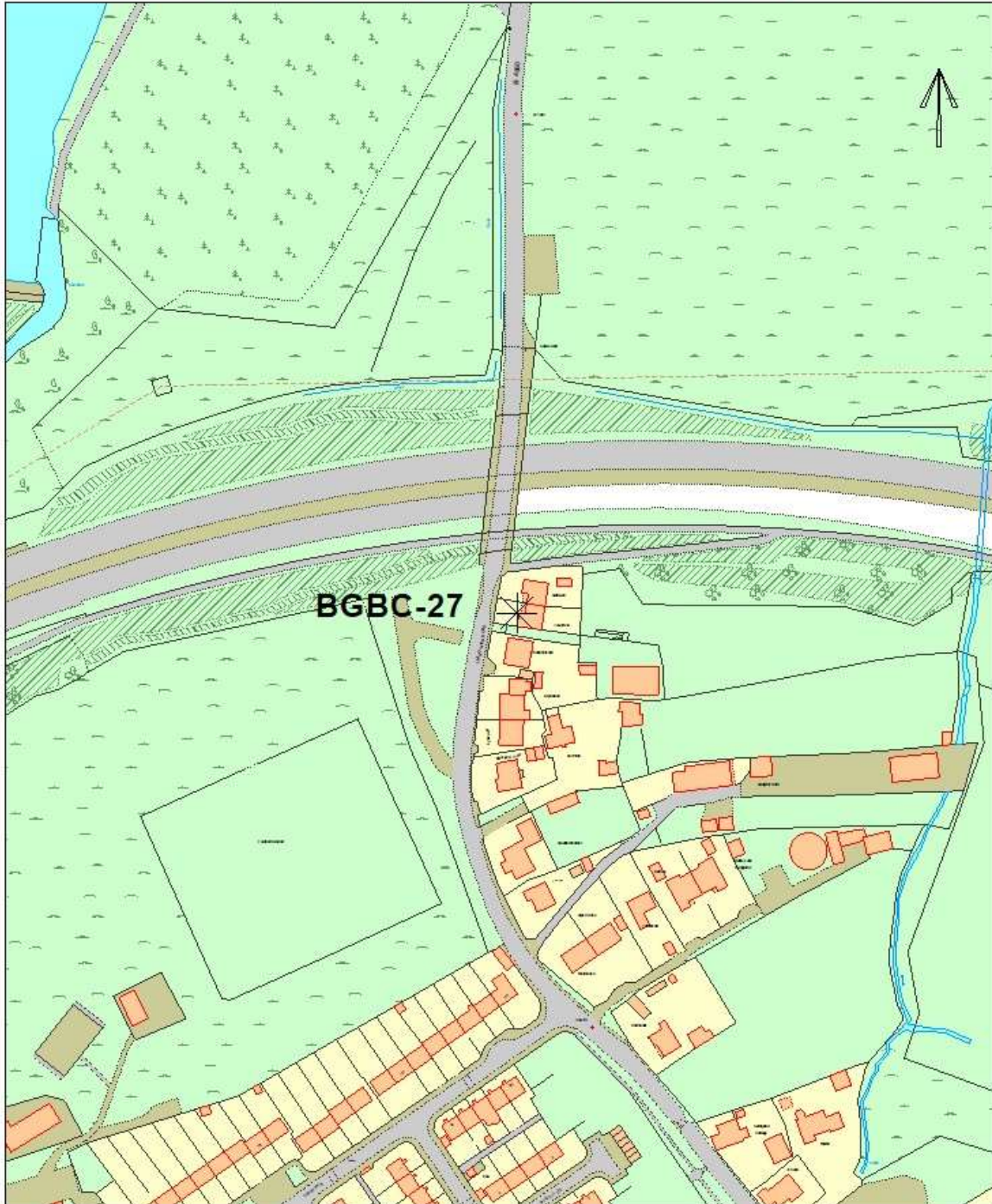


Blaenau Gwent County Borough Council

Location: BGBC-27- Tyn y Rhyn, Llangynidr Road, Ebbw Vale

Easting: 316712 **Northing:** 212801

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

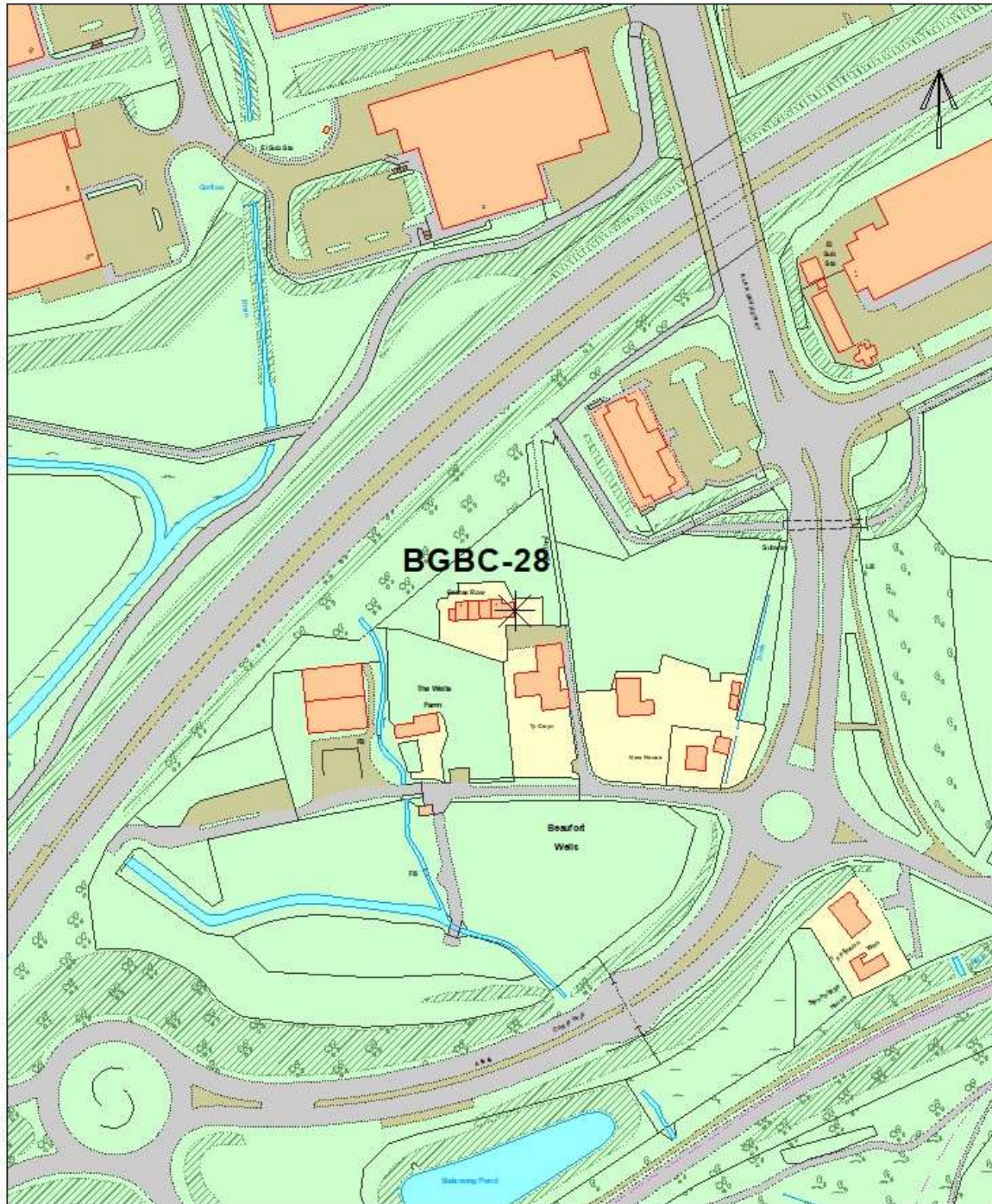
Location: BGBC-28- 1 Coates Row, Rassau, Ebbw Vale

Easting: 314491 **Northing:** 211644

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyffia Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

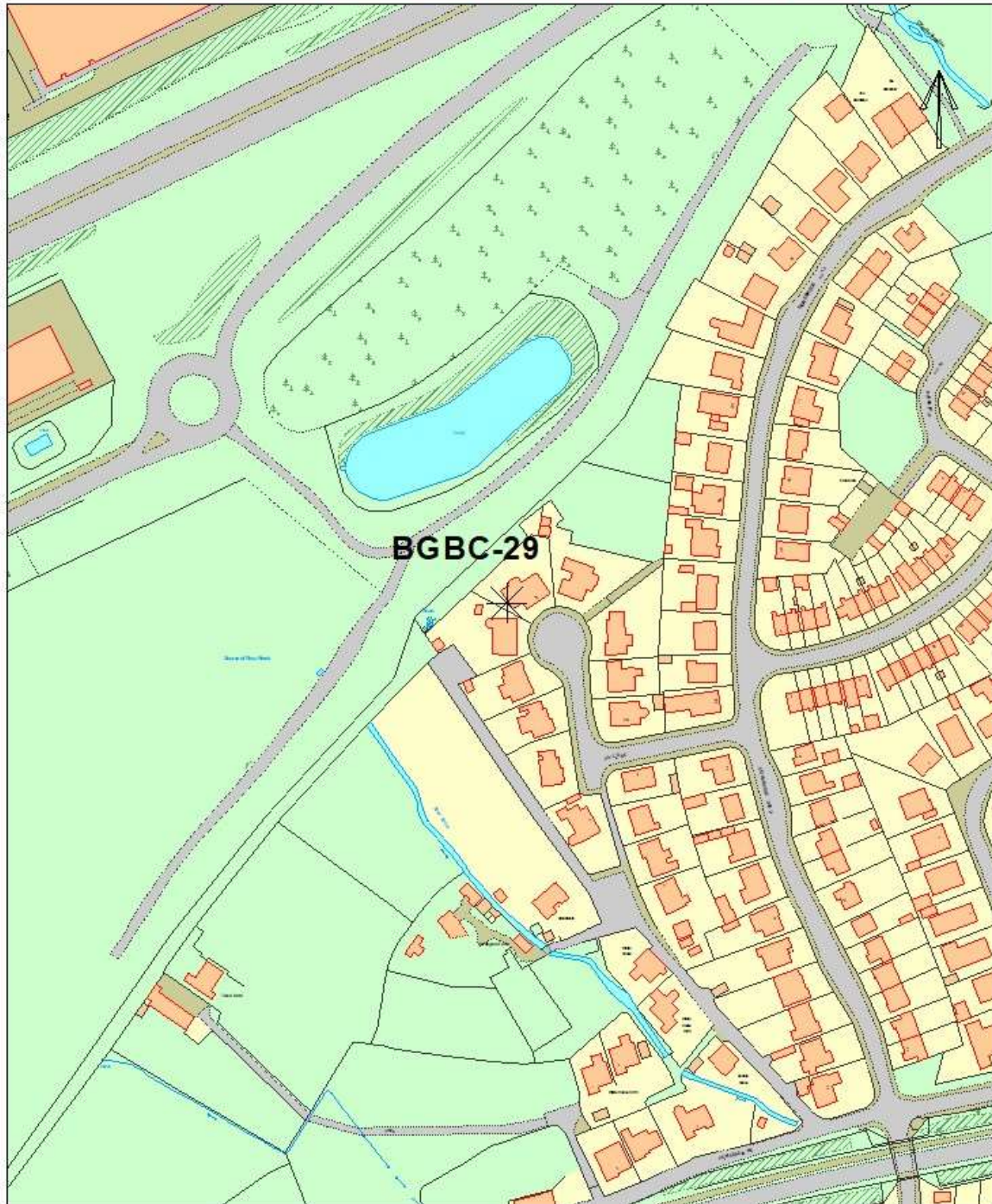
Location: BGBC-29- 10 Ivy Close, Rass au, Ebbw Vale.

Easting: 315323 **Northing:** 211938

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-30- 8 Annes Court, Ebbw Vale.

Easting: 316005 **Northing:** 210184

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



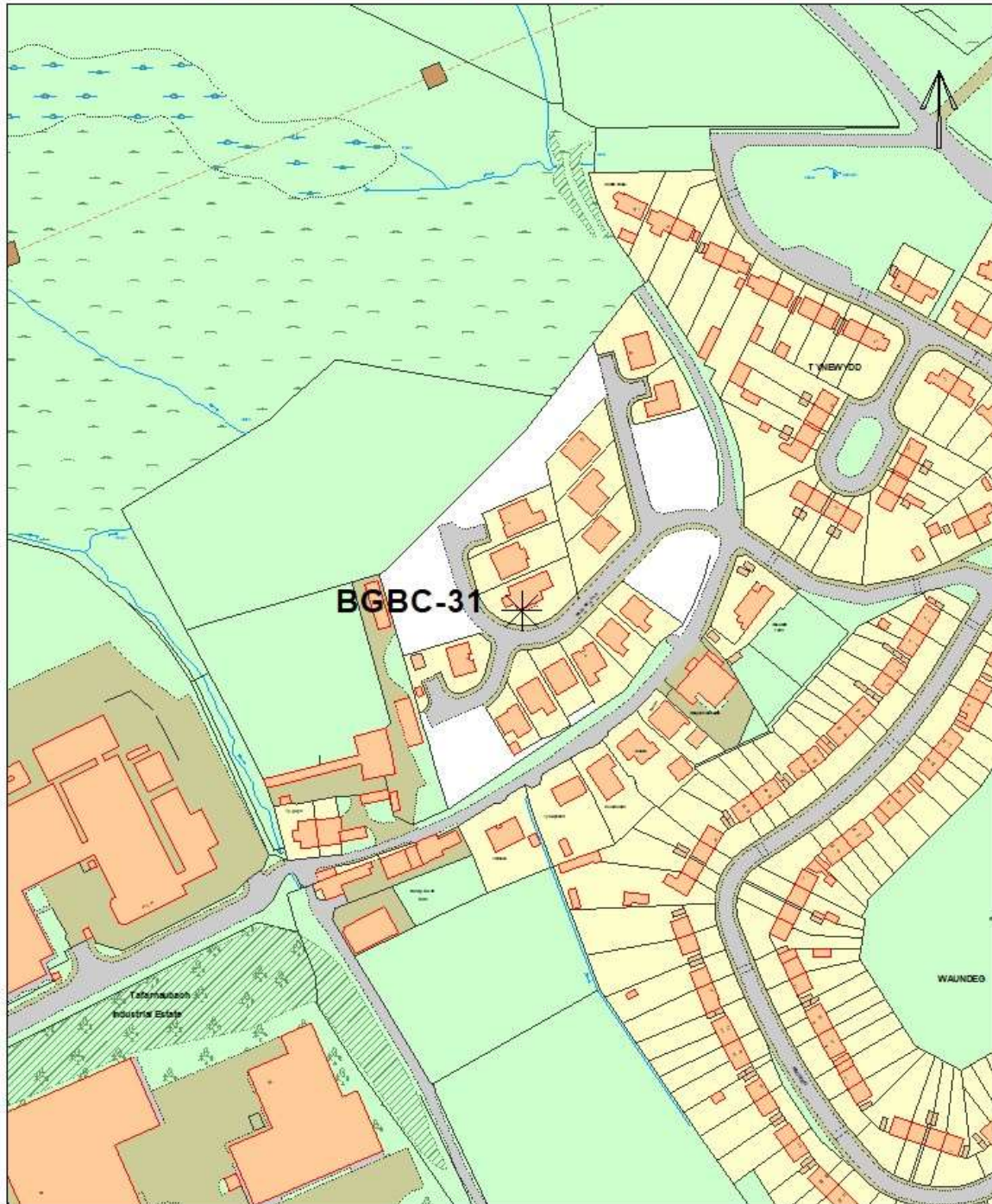


Blaenau Gwent County Borough Council

Location: BGBC-31- 18 Maes Morgan, Tredegar.

Easting: 312664 **Northing:** 210970

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

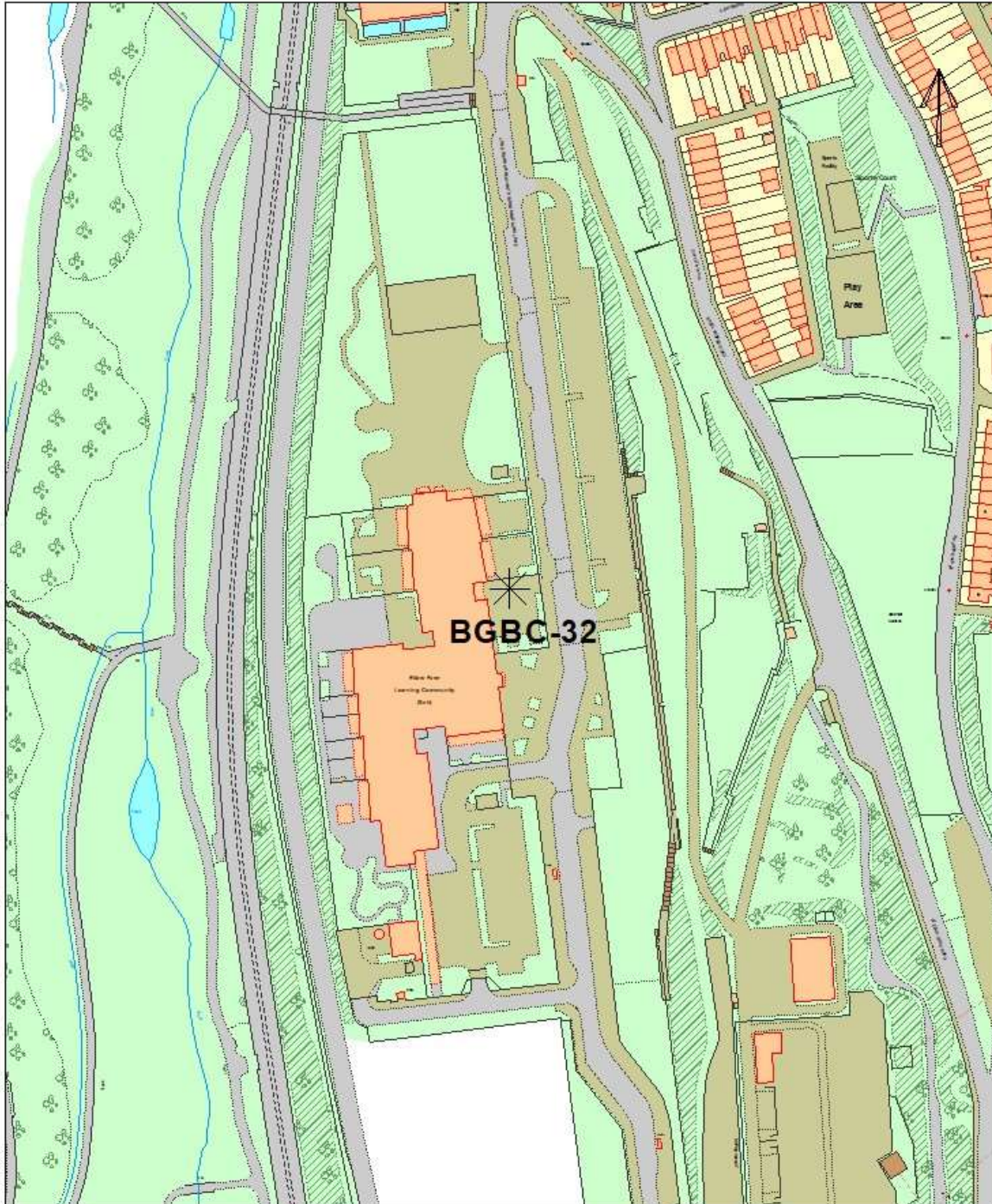
Location: BGBC-32- Ebbw Fawr Learning Campus, Primary School

Easting: 317389 **Northing:** 208312

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-34- Georgetown Primary School, Oakfield Road,

Easting: 314842 **Northing:** 208255

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L





Blaenau Gwent County Borough Council

Location: BGBC-35- Brynbach Primary School, Merthyr Road, Tr

Easting: 313056 **Northing:** 210464

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L.

Atgynhychwyd o Fapiau'r Ordnance Survey ohaniad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron.

Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



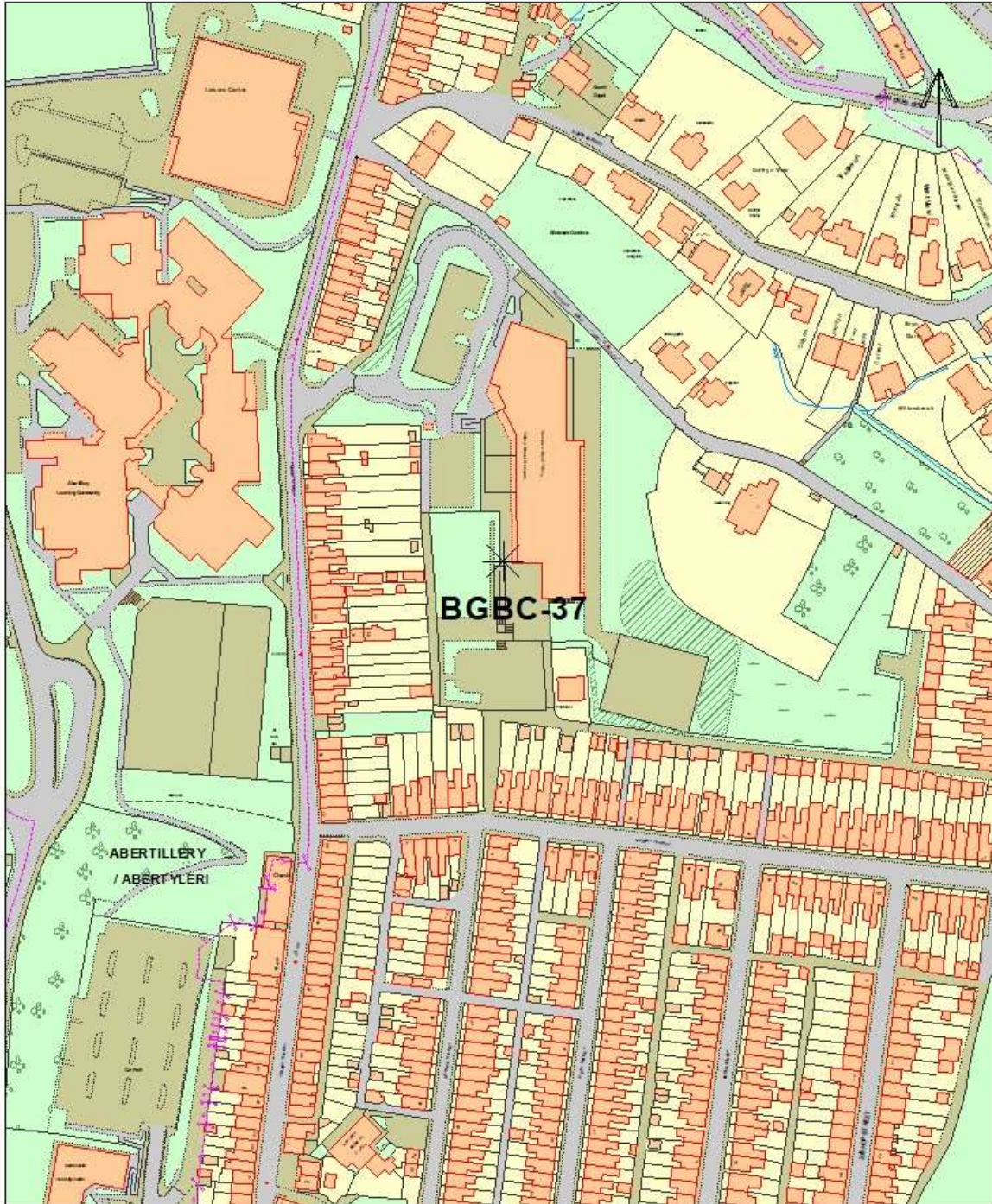


Blaenau Gwent County Borough Council

Location: BGBC-37 - Abertillery Learning Campus, Tillery Stre

Easting: 321892 **Northing:** 204585

Reproduced from the Ordnance Survey Mapping with the permission of Her Majesty's Stationary Office (C) Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. BGBC - LA09002L. Atgynhychwyd o Fapiau'r Ordnance Survey ohaniatad Rheolwr Llyfya Ei Mawrhydi (c) Hawffraint y Goron. Y mae atgynhychu heb awdurdod yn torri Hawffraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L



Glossary of Terms

Abbreviation	Description
AQAP	Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the LA intends to achieve air quality limit values'
AQMA	Air Quality Management Area – An area where air pollutant concentrations exceed / are likely to exceed the relevant air quality objectives. AQMAs are declared for specific pollutants and objectives
APR	Air quality Annual Progress Report
AURN	Automatic Urban and Rural Network (UK air quality monitoring network)
Defra	Department for Environment, Food and Rural Affairs
DMRB	Design Manual for Roads and Bridges – Air quality screening tool produced by Highways England
FDMS	Filter Dynamics Measurement System
LAQM	Local Air Quality Management
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
PM ₁₀	Airborne particulate matter with an aerodynamic diameter of 10µm (micrometres or microns) or less
PM _{2.5}	Airborne particulate matter with an aerodynamic diameter of 2.5µm or less
QA/QC	Quality Assurance and Quality Control
SO ₂	Sulphur Dioxide