





Subject:	Update on Local Air Quality Management Matters.
Date:	8 th September 2020.
Reporting Officer:	Siobhan Toland, Director of City Services
Contact Officer:	Valerie Brown, City Protection Manager

Restricted Reports	
Is this report restricted?	Yes No X
If Yes, when will the report become unrestricted?	
After Committee Decision	
After Council Decision	
Sometime in the future	
Never	
Call-in	
Is the decision eligible for Call-in?	Yes X No

1.0	Purpose of Report or Summary of main Issues
1.1	Members will recall that at the People and Communities Committee meeting of 3rd March
	2020, a paper was presented that provided an overview of preparations and progress at
	that time towards development of a new Air Quality Action Plan for the city, along with
	technical and other information relating to a proposed detailed assessment to be
	undertaken for the city for fine particulate matter (PM _{2.5}) and nitrogen dioxide (NO ₂).
1.2	
	This report serves to provide an update to the Committee on progress with both of these
	projects over the intervening time (within the Covid Pandemic) and to provide an overview
	of the outcome of the Belfast City Council Air Quality Progress Report 2020.
2.0	Recommendations
2.1	The Committee is asked to:

	note contents of this update report.
3.0	Main report
	Key Issues
3.1.1	Air Quality Action Plan. Members will be aware that the Council's current Belfast City Air Quality Action Plan is scheduled to conclude at the end of 2020. With this in mind, officers have commenced engagement with a range of government Departments, the Public Health Agency, local public transport providers, the Port of Belfast and sustainable environment and transport organisations in order to begin development of a new Air Quality Action Plan for implementation from April 2020. The focus of the new Air Quality Action Plan will be to address the few remaining nitrogen dioxide (NO ₂) hotspots across the city, associated principally with road transport emissions and to improve ambient air quality generally for the city.
3.1.2	To assist in development of the new Air Quality Action Plan, an Air Quality Steering Group has been convened and 'Terms of Reference' have been established for both the Group and for development of the new Plan. The Terms of Reference have been designed to ensure that the new Air Quality Action Plan contributes appropriately to the various ambient air quality outcomes detailed within the ' <i>Belfast Agenda</i> – <i>Your Future City'</i> community plan, as well as linking to the Programme for Government ' <i>Indicator 37: Improve air quality</i> ', where the lead measure is 'concentration of nitrogen dioxide (NO ₂)'. In addition, the Terms of Reference highlight that the Council's Living Here Board oversees delivery of the ' <i>Living Here</i> ' component of the Belfast Agenda community plan and that the ' <i>Living Here</i> ' work stream to ' <i>Maximise the benefit of our natural and built environment</i> ' includes a commitment to delivery of the city's Air Quality Action Plan(s).
3.1.3	As a consequence of the Covid-19 pandemic, Steering Group meetings to date have been delivered online. The next meeting of the Steering Group is scheduled for 7 th September 2020, where Steering Group members have been invited to bring forward mitigation measures on behalf of their organisations for inclusion in the new Action Plan to address the remaining nitrogen dioxide ' <i>hot spot</i> ' areas across the city and to improve general ambient air quality.

3.1.4	Members are advised that the new Air Quality Action Plan will have to be developed with
	regard to the various requirements of the DAERA Local Air Quality Management Policy
	Guidance – LAQM.PGNI(09). Accordingly, the Air Quality Action Plan is required to include
	the following components:
	Quantification of the source contributions to the predicted exceedences of the relevant
	objectives, thereby enabling the Action Plan measures to be effectively targeted;
	 Evidence that all available options have been considered;
	How the district council will use its powers and work in conjunction with other
	organisations and relevant authorities in pursuit of the air quality objectives;
	Clear timescales in which the district council and relevant authorities propose to
	implement the measures within the plan;
	• Quantification of the expected impacts of the proposed measures and an indication as to
	whether the measures will be sufficient to meet the air quality objectives and;
	• How the district council intends to monitor and evaluate the effectiveness of the plan.
	Moreover, the new Air Quality Action Plan will have to be independently appraised by the
3.1.5	Department for Environment, Food and Rural Affairs (Defra) technical assessors in order to
	ensure that the Plan is acceptable in terms of its proposed actions, adequacy and
	appropriateness, planned implementation, consultation and consistency with statutory
	guidance. Once the Air Quality Action Plan has been accepted by the assessors, it can
	then be implemented. Our original intention was that the new Air Quality Action Plan would
	have been ready for implementation by December 2020 but with the Covid 19 pandemic
	and allowing for any necessary consultation on the new Action Plan, the anticipated
	completion date is now April 2021. We have communicated this revision to the action
	planning timetable to DAERA.
3.2	
3.2.1	Detailed Assessment for Fine Particulate Matter (PM _{2.5}) and Nitrogen Dioxide (NO ₂).
0.2.1	Members are advised that officers have now completed development of a detailed
	technical specification for the appointment of a suitably qualified and experienced
	environmental consultancy to deliver the detailed assessment for fine particulate matter
	(PM _{2.5}) and nitrogen dioxide (NO ₂) for the city. The specification will be issued as local and
	European tenders in coming weeks.
3.2.2	It is proposed that the detailed assessment for $PM_{2.5}$ and NO_2 will involve three specific
	project components; (i) development of a detailed emissions inventory for the city to
	include road, rail, shipping, aircraft domestic, industrial and commercial emissions, etc.

within the city boundary; (ii) additional ambient monitoring across the city for fine particulate matter (PM_{2.5}) and nitrogen dioxide (NO₂) in order to fill any gaps in existing monitoring data and; (iii) detailed atmospheric dispersion modelling for the city in order to identify geographic areas where exceedances of NO₂ or PM_{2.5} objectives, limit values or WHO guideline values are predicted or known to occur.

3.2.3 The environmental consultancy appointed will also be expected to provide prioritised recommendations for achieving the air quality objectives, limit values or WHO guideline values for PM_{2.5} and NO₂ within any areas of exceedance, as well as for the city as a whole. It is anticipated that the duration of the detailed assessment project will be in the order of 2 years, but the project may in exceptional circumstances have to be extended or curtailed as a consequence of any new local or national Covid-19 pandemic restrictions.

3.3 Installation of an Ion Chromatogram type analyser at the Belfast Centre Lombard Street monitoring site.

- 3.3.1 As an addition to the detailed assessment for fine particulate matter (PM_{2.5}), Council officers are currently liaising with their DAERA counterparts and the UK Centre for Ecology and Hydrology regarding development of a project to identify and quantify the water-soluble gases and aerosols in air containing different sizes of particulate matter to aid in the better understanding of some of the chemical mechanisms involved in the formation of particulate matter in Belfast and across Northern Ireland. This project was initially proposed by DAERA however the analytical data generated will also help to inform the Council's detailed assessment for fine particulate matter (PM_{2.5}) for the city.
- 3.3.2 Accordingly, it is proposed that a **M**onitor for **A**e**R**osols and **G**ases (MARGA) ion chromatogram type ambient air quality analyser be installed at the DAERA managed Belfast Centre site, initially for a period of around 4 months, commencing from early 2021. The MARGA instrument will be able to measure ambient gases including hydrochloric acid, nitric acid, nitrous acid, sulphur dioxide and ammonia. In addition, it will be capable of measuring aerosol ions including chloride, nitrate, sulphate, ammonium, potassium, calcium and magnesium. As advised previously, this project is to be delivered in partnership with DAERA and the UK Centre for Ecology and Hydrology. DAERA have however sought support from the Council in the installation and operation of the chromatographic equipment. Further updates will be provided to Committee as necessary as the project is further developed

3.4	Belfast City Council Air Quality Progress Report 2020.
	In accordance with the timetable detailed within the government's local air quality
	management technical guidance document LAQM.TG(16), Belfast City Council provided its
	2020 Air Quality Progress Report to the Defra technical assessors on 30 th June 2020.
3.4.1	Air Quality Progress Reports are required to include the following types of air quality information:
	 An overview of air quality actions being taken in the local authority area;
	A brief discussion of the LAQM regime;
	Actions to improve air quality:
	A description of currently declared AQMAs
	 A section discussing the progress, and impact of Action Plan measures.
	A summary of air quality monitoring data collated over the past 5 years, and a
	comparison of the latest available results against the Air Quality Strategy objectives and;
	 Additional supporting information including screening assessments for new
	developments within the local authority area or changes in existing sources of pollution
	over the past year, or detailed dispersion modelling of emissions to support the
	declaration / amendment or revocation of AQMAs.
3.4.2	Although the Progress Report is dated June 2020, Members are advised that the
	monitoring data included within the report relates to the 2019 calendar monitoring year.
	Accordingly, during 2019, the Council continued to operate its automatic monitoring sites
	for nitrogen dioxide (NO ₂) and particulate matter (PM_{10}) at Stockmans Lane and its
	automatic monitoring sites for nitrogen dioxide (NO_2) at the A12 Westlink, Ormeau Road
	and Upper Newtownards Road. Annual mean nitrogen dioxide concentrations recorded
	during 2019 at the A12 Westlink, Ormeau Road and Upper Newtownards Road sites were
	all less than the 40 μ gm ⁻³ objective, but the annual mean nitrogen dioxide concentration
	recorded at the Stockmans Lane site was 45 μ gm ⁻³ , although this was a 4 μ gm ⁻³ reduction
	on the 2018 annual mean concentration of 49 $\mu\text{gm}^{\text{-3}}.$ There were no recorded exceedances
	of the nitrogen dioxide 200 $\mu gm^{\text{-3}}$ 1-hour mean objective during 2019.
3.4.3	The Council also continued to operate passive nitrogen dioxide diffusion tubes at 55
	monitoring locations across the city during 2019. Exceedences of the nitrogen dioxide 40
	$\mu gm^{\text{-}3}$ annual mean objective were recorded at Stockmans Lane (45 $\mu gm^{\text{-}3}$ in 2019 and 48
	$\mu gm^{\text{-3}}$ in 2018); Blacks Road (42 $\mu gm^{\text{-3}}$ in 2019 and 36 $\mu gm^{\text{-3}}$ in 2018); Great George's

 Street (45 μgm⁻³ in 2019 and 44 μgm⁻³ in 2018); 45 μgm⁻³ at a new 2019 monitoring location at the entrance to the RVH at Mulhouse Road on the A12 Westlink and; 53 μgm⁻³ at a new 2019 monitoring location at Henry Place adjacent to the A12 Westlink. 3.4.4 Monitoring sites at, or close to the nitrogen dioxide annual mean objective during 2019 included Short Strand 40 μgm⁻³; Albert Clock 40 μgm⁻³; Chichester Street 40 μgm⁻³; Peter's Hill 40 μgm⁻³; Balmoral Avenue 39 μgm⁻³ and; Glenmachan Street 38 μgm⁻³. 3.4.5 This 2019 nitrogen dioxide monitoring data has already been communicated to the Air Quality Action Plan Steering Group in order to help inform the development of targeted mitigation measures for the new Action Plan. 3.4.6 Annual mean particulate matter (PM₁₀) concentrations at the Belfast Centre, Lombard Street and Stockmans Lane monitoring sites were 15 and 18 μgm⁻³ respectively during 2019; significantly below the 40 μgm⁻³ annual mean objective. No exceedences of the 24 hour mean PM₁₀ objective were recorded at either monitoring site during 2019. 3.4.7 The annual mean PM_{2.5} concentration recorded at the Belfast Centre, Lombard Street site in 2019 was 11 μgm⁻³. This concentration is similar to that recorded in 2018 - 10 μgm⁻³, 2017 - 9.0 μgm⁻³ and 2016 - 10 μgm⁻³; and significantly below the 25 μgm⁻³ annual mean target value to be achieved by 2020. 3.4.8 There were no exceedences of any objective for sulphur dioxide (SO₂) recorded at the Belfast Centre, Lombard Street site during 2019. 3.4.9 The Council has not yet received a response concerning the appraisal of its 2020 Belfast City Council Air Quality Progress Report. However, once the Report has been formally accepted, an electronic copy of the report will be provided for the Members' Library. 3.4.10 As an addendum, Members are advised that the various travel and other movement restrictions associated with the Covid-19 pandemic have resulted		
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 in 2019 was 11 µgm⁻³. This concentration is similar to that recorded in 2018 - 10µgm⁻³, 2017 - 9.0 µgm⁻³ and 2016 - 10 µgm⁻³; and significantly below the 25 µgm⁻³ annual mean target value to be achieved by 2020. 3.4.8 There were no exceedences of any objective for sulphur dioxide (SO₂) recorded at the Belfast Centre, Lombard Street site during 2019. 3.4.9 The Council has not yet received a response concerning the appraisal of its 2020 Belfast City Council Air Quality Progress Report. However, once the Report has been formally accepted, an electronic copy of the report will be provided for the Members' Library. 3.4.10 As an addendum, Members are advised that the various travel and other movement restrictions associated with the Covid-19 pandemic have resulted in reduced roadside nitrogen dioxide concentrations during 2020. For example, the nitrogen dioxide mean value at the Stockmans Lane site during January – August 2019 was 44.8 µgm⁻³. Similar 	3.4.7	The appual mean PM concentration recorded at the Bolfast Centre. Lembard Street site
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		at the Stockmans Lane site during January – August 2019 was 44.8 μ gm ⁻³ , whereas for the
reductions have been observed at other nitrogen dioxide roadside monitoring sites across		same period in 2020, the mean nitrogen dioxide concentration is 30.8 μ gm ⁻³ . Similar
		reductions have been observed at other nitrogen dioxide roadside monitoring sites across

	the city. It is presently unclear whether nitrogen dioxide and other ambient pollutant
	concentrations will recover to their pre Covid-19 levels as Belfast and Northern Ireland
	continue to emerge from the pandemic.
3.5	Financial & Resource Implications
	Permission for the public advertisement of Tender T2044 for ambient air quality
	assessment within the Council boundary for $PM_{2.5}$ and NO_2 ambient pollutants was
	obtained at the Strategic Policy and Resources Committee meeting of Friday 24 th January
	2020. Funding of up to £125,000 to support delivery of the detailed assessment project has
	been secured from the DAERA Local Air Quality Management grant scheme for 2020-
	2021. It is proposed that the tender documentation will be issued during the week
	commencing 7 th September 2020 and that the tender will remain open for a period of 30
	days. The various submissions will be assessed thereafter, and the tender is likely to be
	awarded towards the end of October 2020.
3.6	Equality or Good Relations Implications /Rural Needs Assessments
	None
4.0	Appendices – Documents Attached
	None