

Woodfibre LNG Air Quality Monitoring Station Report for July 2025

September 9, 2025

Prepared for:
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Project/File:
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Limitations and Sign-off

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Executive Summary

This report provides a summary of the ambient air quality monitoring data for July 2025 that has been collected in fulfilment of the requirements established in the Floatel Air Quality Monitoring and Mitigation Plan (Rev 6, July 5, 2024) (Woodfibre LNG 2024). Table ES.1 below presents the monthly averages, ranges, and maximum values for key air contaminant concentrations measured during July 2025, along with additional information on air quality exceedances and complaints received during this period. This report provides an overview of ambient air quality conditions and regulatory compliance actions taken during July 2025.

Table ES.1 July 2025 Air Quality Monitoring Station Summary

Air Contaminant		Units	Monthly Average	Monthly Range (Min - Max)
PM _{2.5} (24-hour average)		µg/m³	8.8	6.4 - 11.4
PM ₁₀ (24-hour average)		µg/m³	24.8	13.8 - 38.7
TSP (24-hour average)		µg/m³	37.4	16.4 - 71.3
NO ₂ (24-hour average)		ppb	6.3	3.6 - 9.8
NO ₂ (1-hour average)		ppb	6.3	0.0 - 22.8
SO ₂	Jul 3 – Aug 1, 2025	ppb	<0.2 ^a	
VOC as Hexane			3.3	
Number of Air Quality Exceedances Recorded			None	
Number of Complaints Received			None	

Notes:

^a Concentrations below the Reported Detection Limit (RDL) are indicated with a '<' symbol.



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Acronyms / Abbreviations

AGAT	AGAT Laboratories
AQMS	Air Quality Monitoring Station
AQO	British Columbia Air Quality Objective(s)
BC	British Columbia
BC ENV	British Columbia Ministry of Environment and Climate Change Strategy (2017–2024)
BC ENVP	British Columbia Ministry of Environment and Parks (2024–Present)
CAAQS	Canadian Ambient Air Quality Standard(s)
CCME	Canadian Council of Ministers of the Environment
EAO	British Columbia Environmental Assessment Office
Floatel	The marine-based work camp, associated facilities and mooring infrastructure dedicated to house approximately 650 Workers during the Construction and Operations of the Project
FAQMMP	Floatel Air Quality Monitoring and Mitigation Plan
FEM	Federal Equivalent Method
NO ₂	Nitrogen Dioxide
PM	Particulate Matter
PM _{2.5}	Fine Particulate Matter (less than 2.5 microns (µm) in aerodynamic diameter)
PM ₁₀	Particulate Matter (less than 10 microns (µm) in aerodynamic diameter)
QA/QC	Quality Assurance and Quality Control
SO ₂	Sulphur Dioxide
TSP	Total Suspended Particulate (less than 100 microns (µm) in aerodynamic diameter)
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
Woodfibre LNG	Woodfibre LNG General Partner Inc.



1 Introduction

Woodfibre LNG General Partner Inc. (Woodfibre LNG) is developing the Woodfibre Liquefied Natural Gas Project (the Project) at the former Woodfibre Pulp Mill site, approximately seven kilometres southwest of Skwxwú7mesh (Squamish), British Columbia (BC). To support onsite ambient air quality monitoring, Stantec Consulting Ltd. (Stantec) prepared the Floatel Air Quality Monitoring and Mitigation Plan (FAQMMP; Rev 6, July 5, 2024) on behalf of Woodfibre LNG (Woodfibre LNG 2024). The FAQMMP was developed to comply with Condition 30 of the Environmental Assessment Office (EAO) Amendment #3 (EAO 2023), which pertains specifically to Floatel air quality monitoring. The monitoring is intended to demonstrate compliance with ambient air quality standards and assists Woodfibre LNG in determining whether mitigation during the Project's construction phase is required. Further details regarding the purpose, duration, and compliance framework are available in the FAQMMP Rev 6 July 5, 2024 (Woodfibre LNG 2024).

FAQMMP Rev 7 is currently in development through consultation with BC ENVP, BC MOH, BCER, EAO, VCH and designated Aboriginal Groups participating in the review process. The trigger levels for SO₂ and VOC from Rev 7 are applied in this monthly air quality report for comparison purpose.

The air quality monitoring station (AQMS) continuously measures PM_{2.5}, PM₁₀, TSP, and NO₂ concentrations, along with passive sampling and analysis for SO₂ and VOCs. Data processing, quality assurance, and quality control (QA/QC) of the air quality monitoring equipment are performed, and the data presented in this monthly report is based on a Level 0 data validation as described by the British Columbia Field Sampling Manual – Part B (BC ENVP 2020, formerly British Columbia Ministry of Environment & Climate Change Strategy (BC ENV, 2017–2024); now Ministry of Environment & Parks (BC ENVP), 2024–present).

The location of the AQMS (UTM Easting 481,569 m and Northing 5,501,374 m, NAD83 datum, zone 10U) is adjacent to the existing meteorology station (UTM Easting 481,610 m and Northing 5,501,369 m, NAD83 datum, zone 10U) currently in operation at the Woodfibre LNG site as recommended in the FAQMMP. Figure 1.1 provides a map of the Woodfibre LNG site. This July 2025 monthly air quality report provides data on air quality and meteorology conditions monitored at the Woodfibre LNG Project site close to the Floatel. The monitoring and reporting support regulatory compliance. These monthly reports track ambient air quality trends, address potential issues, and help the Project meet project-specific and regulatory requirements.



2 Key Components Assessed

Two key sets of measurements are reported: a) meteorology data, including ambient temperature, wind speed and direction, relative humidity, barometric pressure, and total rainfall, and b) ambient concentrations of air contaminants measured at the AQMS.

2.1 Meteorology

Meteorology data supporting the Woodfibre LNG AQMS are acquired from the nearby Woodfibre LNG meteorology station. This meteorology data supports the long-term ambient air quality monitoring program. The meteorology variables measured at the station are listed in Table 2.1.

Table 2.1 Variables Measured at the Woodfibre LNG Site Meteorology Station

Parameter	Units
Wind Speed	m/s
Wind Direction	Degrees
Air Temperature	°C
Rainfall	mm
Relative Humidity	%
Barometric Pressure	hPa

2.2 Air Contaminants of Interest

The air contaminants being measured are described below according to the type of monitoring.

2.2.1 Continuous Sampling

- Fine particulate matter with aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5})
- Coarse particulate matter with aerodynamic diameter less than or equal to 10 microns (PM₁₀)
- Total suspended particulate (TSP) with aerodynamic diameter less than or equal to 100 microns
- Nitrogen dioxide (NO₂)

2.2.2 Passive Sampling

- Sulphur dioxide (SO₂)
- Volatile organic compounds (VOCs)



2.3 Air Quality Criteria

The air contaminants monitored at the AQMS, along with their corresponding Canadian Ambient Air Quality Standards (CAAQS) (CCME 2024) and British Columbia Air Quality Objectives (BCAQO) (BC ENVP 2021) regulatory criteria, are presented in Table 2.2 and Table 2.3, respectively.

Table 2.2 Summary of 2020 and 2025 Canadian Ambient Air Quality Standards for the Contaminants of Potential Concern

Substance	Averaging Period	Concentration ^a			
		(µg/m ³) ^{b,c}		(ppbv) ^d	
		2020	2025	2020	2025
Nitrogen Dioxide (NO ₂)	1-hour ^e	113	79	60	42
	Annual ^f	32	23	17.0	12.0
Sulphur Dioxide (SO ₂)	1-hour ^g	183	170	70	65
	Annual ^h	13	10.4	5.0	4.0
Fine Particulate Matter (PM _{2.5})	24-hour ⁱ	27	— ^j	—	—
	Annual ^k	8.8	— ^j	—	—

Notes:

^a Canadian Ambient Air Quality Standards (CCME 2024) for 2020 and 2025.

^b µg/m³ is the mass of the substance in micrograms per cubic meter of air.

^c Standard conditions of 25°C and 101.325 kPa are used to convert from µg/m³ to ppbv.

^d ppbv is the volume of the substance (parts) per billion volumes of air.

^e The 3-year average of the annual 98th percentile of the daily maximum 1-hour average concentration.

^f The average over a single calendar year of all 1-hour average concentrations.

^g The 3-year average of the annual 99th percentile of the daily maximum 1-hour average concentrations.

^h The average over a single calendar year of all 1-hour average concentrations.

ⁱ The 3-year average of the annual 98th percentile of the daily 24-hour average concentrations.

^j Currently under review by the CCME

^k The 3-year average of the annual average of the daily 24-hour average concentrations.



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Section 2: Key Components Assessed

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Table 2.3 British Columbia Ambient Air Quality Objectives

Substance	Averaging Period	Air Quality Objective ^a	
		µg/m ³ ^{b,c}	ppbv ^d
Nitrogen Dioxide (NO ₂)	1-hour ^e	113	60
	Annual ^f	32	17
Sulphur Dioxide (SO ₂)	1-hour ^g	183	70
	Annual ^h	13	5
Fine Particulate Matter (PM _{2.5})	24-hour ⁱ	25	—
	Annual ^j	8.0	—
Coarse Particulate Matter (PM ₁₀)	24-hour	50	—
Total Suspended Particulate (TSP)	24-hour	120	—
	Annual ^k	60	—

Notes:

^a British Columbia Air Quality Objectives (BC ENVP 2021).

^b µg/m³ is the mass of the substance in micrograms per cubic meter of air.

^c Standard conditions of 25°C and 101.325 kPa are used to convert from µg/m³ to ppbv.

^d ppbv is the volume of the substance (parts) per billion volumes of air.

^e Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

^f Achievement based on annual average of 1-hour average concentrations over one year.

^g Achievement based on annual 99th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

^h Achievement based on annual average of 1-hour concentrations over one year.

ⁱ Achievement based on annual 98th percentile of daily average, averaged over one year.

^j Achievement based on annual average, averaged over one year.

^k Based on geometric mean.

In addition to comparing measured concentrations against the applicable BCAQOs, project-specific trigger levels have been established to provide early warnings of potential air quality concerns. These trigger levels are set at two-thirds of the BCAQOs and are used to notify the project team when elevated concentrations are being recorded, prompting mitigation actions if needed. The project-specific trigger levels are:

- 16.7 µg/m³ for 24-hour average PM_{2.5}
- 33.3 µg/m³ for 24-hour average PM₁₀
- 80 µg/m³ for 24-hour average TSP
- 40 ppb for 1-hour average NO₂

The passive sampling of SO₂ and total VOCs allows for monthly and annual concentration values, rather than 1-hour and daily concentrations. There are no applicable monthly BCAQO for SO₂ and VOC but there is an annual BCAQO for SO₂ to compare the monitoring results to. The monthly trigger limit for the passive monitoring of SO₂ and VOC are:



- 5 ppb for monthly passive SO₂
- > 15 times of the previous monthly passive VOC

These SO₂ (5 ppb) and VOC (>15x previous month) values were introduced in draft Rev 7 of the FAQMMP as requested by the Squamish Nation. These trigger levels support proactive air quality management and are not regulatory limits.

3 Instrument Summary

The AQMS is currently being operated to measure the ambient concentrations of the air contaminants mentioned above. The instrumentation used to monitor ambient air quality at the AQMS is summarized in Table 3.1. The NO–NO₂–NO_x gas analyzer could not collect valid data for the following periods: July 6 at 20:00 hours to July 11 at 00:00 hours, July 12 at 01:00 hours to July 15 at 04:00 hours, and July 30 at 19:00 hours to July 31 at 23:00 hours due to daily span test results exceeding the acceptance criteria. The NO–NO₂–NO_x gas analyzer was recalibrated on August 6, 2025.

Passive sampling of SO₂ and VOCs uses AGAT's Passive Sampler system. The Woodfibre LNG personnel exchange the monthly samples and submit them to AGAT for laboratory analysis.

Table 3.1 Summary of Instrumentation used at the Woodfibre LNG Air Quality Monitoring Station

Parameter	Instrumentation
PM _{2.5} , PM ₁₀ , and TSP	Met One Instruments BAM 1020 Beta Attenuation Mass Monitors
NO ₂	Thermo Fisher Scientific – Model 42i (NO–NO ₂ –NO _x) Analyzer
SO ₂ and total VOCs	AGAT's Passive Sampler system

3.1 Continuous Monitoring of PM and NO₂

Particulate matter (PM_{2.5}, PM₁₀, and TSP) was continuously monitored following the Standard Operating Procedure for the Continuous Measurements of Ambient PM Using a Beta Attenuation Monitor (Reference No: SOP-05a). The NO₂ concentrations were continuously monitored following the Standard Operating Procedure for the Continuous Measurement of Ambient NO_x (Reference No: SOP-03) in Part B1 of the British Columbia Field Sampling Manual (BC ENVP 2020).

3.2 Passive Monitoring of SO₂ and VOC

The SO₂ and VOC ambient concentrations were monitored following the Standard Operating Procedure for the Passive/Diffusive Method of Air Sample Collection (Reference No: SOP-07) in Part B1 of the British Columbia Field Sampling Manual (BC ENVP 2020).



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Section 3: Instrument Summary

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4 Ambient Air Quality Monitoring Results

The measured data presented for passive and continuous monitoring includes a) ambient air quality data collected at the AQMS (Appendix A: Figure A.1 to Figure A.10; Appendix B: Table B.1), and b) meteorology data acquired from the Woodfibre LNG meteorology station (Appendix A: Figure A.11 to Figure A.17; Appendix B: Table B.2).

4.1 Continuous Monitoring of PM and NO₂

A summary of the hourly ambient air monitoring results for PM_{2.5}, PM₁₀, TSP, and NO₂ for July 2025 is presented in Appendix A, Figure A.1 to Figure A.5, along with the corresponding regulatory criteria and comparisons with Langdale Elementary (BC ENVP 2025a) and Squamish Elementary (BC ENVP 2025b) regional ambient air quality monitoring stations. Langdale Elementary and Squamish Elementary were selected as reference points due to their relative proximity to the Woodfibre LNG construction site and the availability of relevant ambient air quality data. The BC ENVP air quality monitoring station at Langdale Elementary provides measurements for PM_{2.5}, PM₁₀, NO₂, and SO₂, while Squamish Elementary monitors PM_{2.5}, NO₂, and SO₂. There are no BC ENVP ambient air quality monitoring stations near the Woodfibre LNG project site that measure TSP and VOCs.

During July 2025, the hourly PM_{2.5} concentrations ranged from 2 to 20 µg/m³, the hourly PM₁₀ concentrations ranged from 6 to 113 µg/m³, the hourly TSP concentrations ranged from 6 to 264 µg/m³, and the hourly NO₂ concentrations ranged from 0¹ to 22.8 ppb. The NO–NO₂–NO_x gas analyzer data was invalidated during the data QA/QC process for the following periods: July 6 at 20:00 hours to July 11 at 00:00 hours, July 12 at 01:00 hours to July 15 at 04:00 hours, and July 30 at 19:00 hours to July 31 at 23:00 hours, and are excluded from this report. This was due to daily span test results exceeding the acceptance criteria, where data should be invalidated to the last point in time when measurements were valid (span test pass). The hourly results for the NO₂ concentration monitoring during this period, excluding the invalidated data periods, were less than the BCAQO regulatory standard of 60 ppb. The hourly air quality objective regulatory standard for NO₂ is based on the 3-year average of the annual 98th percentile of the daily maximum 1-hour average concentration (CCME 2024; BC ENVP 2021).

Similarly, a summary of the daily (24-hour average) ambient air quality monitoring results for PM_{2.5}, PM₁₀, TSP, and NO₂ for July 2025 is presented in Appendix B: Table B.1 and Figure A.6 to Figure A.10 (Appendix A), with corresponding regulatory criteria and comparisons with Langdale Elementary and Squamish Elementary regional air quality monitoring stations. The NO₂ gas analyzer could not collect 24-hour average valid data for the following periods: July 7-10, July 12 -14 and on July 31, 2025, due to the daily span check failures. The 24-hour regulatory standards for PM₁₀ and TSP monitoring are 50 µg/m³ and 120 µg/m³, respectively. The 24-hour BCAQO regulatory standard for PM_{2.5} is 25 µg/m³,

¹ The 42i NO–NO₂–NO_x gas analyzer recording the NO₂ concentrations may occasionally report slightly negative values when the concentrations are very low near the detection limit. Both the BCFSM (BC ENVP 2020) and the National Air Pollution Surveillance (NAPS, CCME 2019) program provide data validation criteria for gas concentration measurements: values between -3 and 0 ppb are adjusted to 0, while values below -3 ppb are further investigated prior to setting to zero. This approach has been consistently applied in the data validation program.



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Section 4: Ambient Air Quality Monitoring Results

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based on the 3-year average of the annual 98th percentile of the daily 24-hour average concentrations (CCME 2024; BC ENVP 2021).

During July 2025, the 24-hour average PM_{2.5} concentrations ranged from 6.4 to 11.4 µg/m³, 24-hour average PM₁₀ concentrations ranged from 13.8 to 38.7 µg/m³, 24-hour average TSP concentrations ranged from 16.4 to 71.3 µg/m³, and 24-hour average NO₂ concentrations ranged from 3.6 to 9.8 ppb. The 24-hour average PM_{2.5}, PM₁₀ and NO₂ concentrations recorded at the Woodfibre LNG AQMS site were generally higher than those observed at the Langdale Elementary and Squamish Elementary regional air quality monitoring stations, which is expected given the proximity of the AQMS site to active construction activities.

The available data for July 2025 is insufficient to compare with the annual regulatory standards set for NO₂, PM_{2.5}, and TSP by BCAQO and CAAQS. The monthly average NO₂ concentration in July 2025 is 6.3 ppb. The combined average NO₂ concentration from January to July 2025 is 8.4 ppb, less than the BCAQO and CAAQS annual regulatory standards of 17 ppb and 12 ppb, respectively.

The July 2025 monthly average PM_{2.5} concentration is 8.8 µg/m³. The combined average for January to July 2025 is 6.6 µg/m³ and is less than the BCAQO and CAAQS annual regulatory standards of 8.0 and 8.8 µg/m³, respectively. However, this seven-month average does not represent a yearly valid average for comparison with these regulatory standards. Similarly, the July monthly average TSP concentration is 37.4 µg/m³. The combined average TSP concentration from January to July 2025 is 30.1 µg/m³, less than the BCAQO annual regulatory standard of 60 µg/m³.

A summary of the 24-hour average PM_{2.5}, PM₁₀, TSP and NO₂ concentrations measured during July 2025 is presented in Appendix A (Figure A.6 to Figure A.10) and Appendix B, Table B.1. The results for PM_{2.5}, PM₁₀, and TSP were less than the BCAQO regulatory standards of 25 µg/m³, 50 µg/m³, and 120 µg/m³, respectively, and no air quality non-conformances were recorded for these air contaminants of interest. However, four measured PM₁₀ concentrations at the on-site AQMS were greater than the project-specific trigger level of 33.3 µg/m³ during July 2025, on July 16, 17, 18, and 31, with values of 35.3, 37.8, 38.2, and 38.7 µg/m³, respectively. During the same days, PM₁₀ concentrations measured at the Langdale Elementary regional air quality station were substantially lower, at 14.3, 14.0, 13.2, and 12.4 µg/m³, respectively. As a mitigation effort, water trucks were operated on site to suppress dust and help minimize project-related contributions. No air quality complaints were received from the Floatel residents during July 2025. The weekly AQMS reports are presented in Appendix C.



4.2 Passive Monitoring of SO₂ and VOC

The passive sample media for SO₂ and total VOCs were swapped on August 1, 2025. This report includes the results for samples collected for the exposure period from July 3, 2025, to August 1, 2025. The laboratory analysis report is presented in Appendix D.

The results for SO₂ and VOC samples show an ambient average SO₂ concentration of <0.2 ppb and an ambient average VOC concentration of 3.3 ppb. The instrument-reported detection limits (RDL) are 0.2 ppb and 0.7 ppb, respectively. In comparison, the regional monitoring stations reported higher ambient SO₂ concentrations in July 2025, with Squamish Elementary and Langdale Elementary both recorded 0.8 ppb. The measured SO₂ concentration at the AQMS remained below 0.2 ppb, meaning it was lower than the levels recorded at Squamish Elementary and Langdale Elementary regional air quality stations. In May and June 2025, the SO₂ concentrations were 0.4 ppb and <0.2 ppb, respectively, while VOC concentrations in both months remained below the RDL of 0.7 ppb.

4.3 Meteorology

A summary of the meteorology conditions during July 2025 is presented in Appendix A, Figure A.11 to Figure A.17 and Appendix B, Table B.2. Daily average and maximum wind speeds are shown in Figure A.11. The highest hourly average wind speed was recorded on July 25, 2025, at 12:00 (11.6 m/s), and the highest 24-hour average wind speed was also recorded on the same day (2.7 m/s). Figure A.12 presents a wind rose illustrating wind direction and speed for July 2025 at the Woodfibre LNG meteorology station. The prevailing wind direction is from the northwest and northeast. Additionally, Figure A.13 includes four wind roses capturing specific time intervals: between 0:00 and 8:00 hours, 9:00 and 12:00 hours, 13:00 and 19:00 hours, and 20:00 and 00:00 hours throughout July 2025.

The daily ambient temperature data is presented in Figure A.14. The maximum hourly air temperature of 30.1°C was recorded on July 13, 2025, at 15:00, while the minimum hourly temperature of 12.3°C occurred on July 4, 2025, at 04:00. The monthly average temperature for July 2025 was 19.3°C.

The daily and total monthly rainfall data, presented in Figure A.15 and Table B.2, show that the highest single-day rainfall of 16.6 mm occurred on July 8, 2025. The total rainfall for July 2025 was 29.2 mm.

The daily average relative humidity ranged from 25.8% to 87.7% in July 2025. The daily minimum, maximum, and average relative humidity values recorded at the Woodfibre LNG station are presented in Figure A.16 and Table B.2. The daily average barometric pressure values ranged from 1,010.2 hPa to 1,022.8 hPa in July 2025, with a monthly average of 1,016.1 hPa. The daily barometric pressure values are presented in Figure A.17 and Table B.2.



5 Summary of Ambient Air Quality Monitoring Results

The ambient air quality monitoring results for July 2025 indicate that the PM_{2.5}, PM₁₀, and TSP concentrations remained less than the BC Air Quality Objective regulatory standards. The hourly measured NO₂ concentrations were less than the BCAQO regulatory standard. The meteorology data, including wind speed, temperature, and rainfall, support accurate interpretation of the ambient air quality monitoring trends. No air quality complaints from the Floatel residents were received during July 2025.



6 References

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Appendices



Appendix A Figures



Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix A: Figures: Figures

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Figure A.1 Hourly PM Concentrations Recorded at the AQMS during July 2025

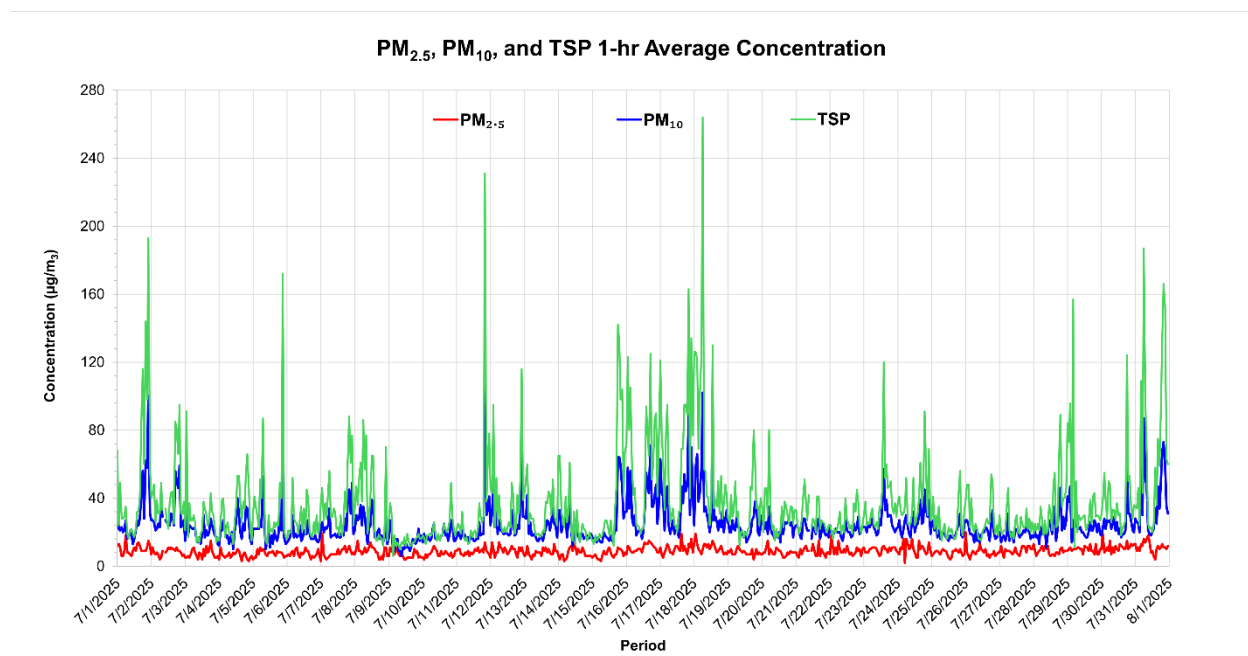
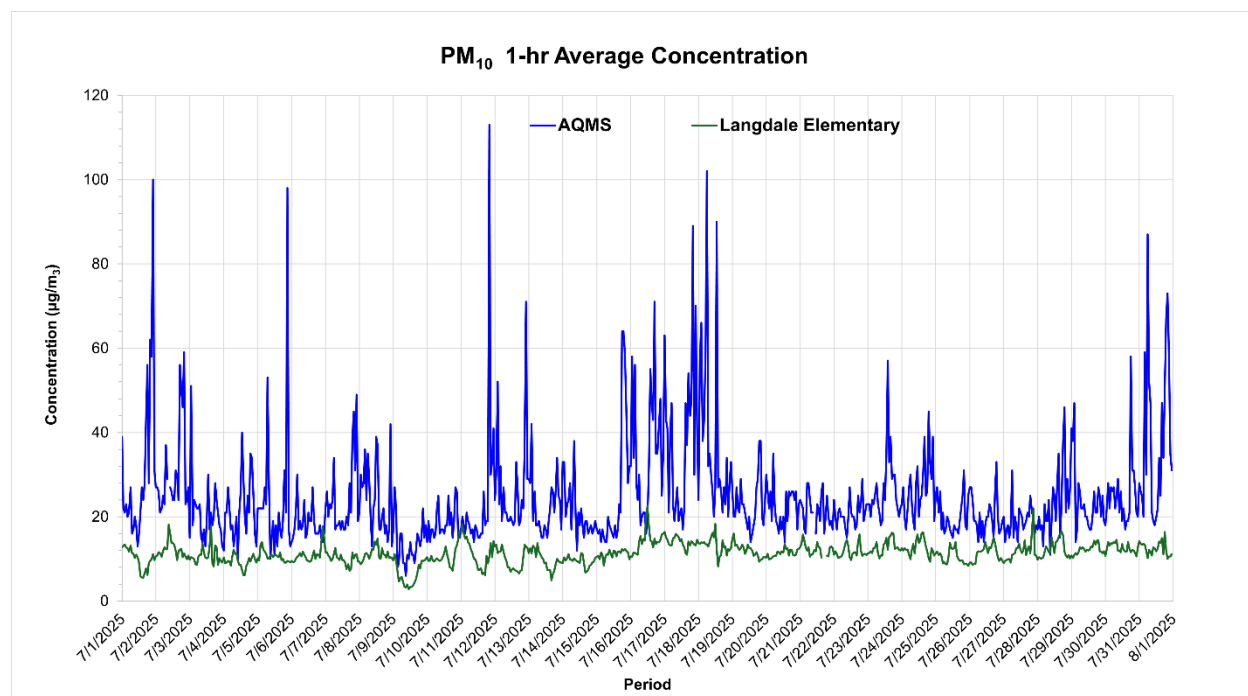


Figure A.2 Hourly PM_{2.5} Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during July 2025



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Appendix A: Figures: Figures

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Figure A.3 Hourly PM₁₀ Concentrations Recorded at the AQMS, and the Langdale Regional Air Quality Station during July 2025

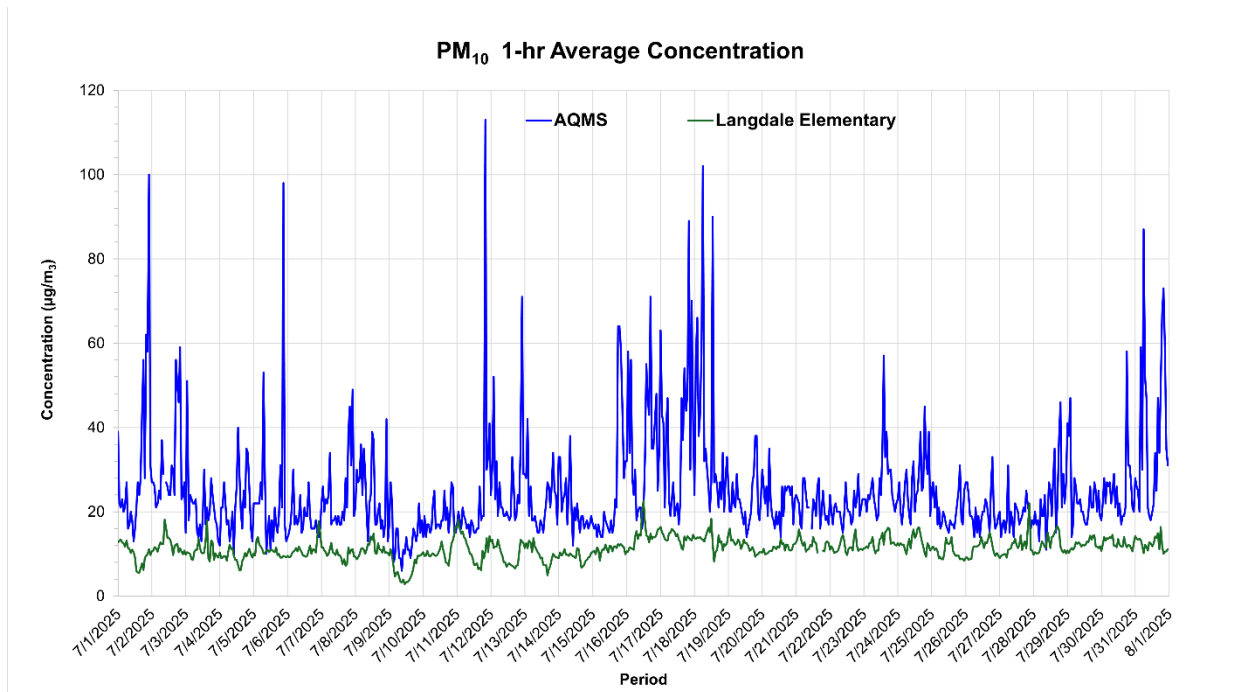
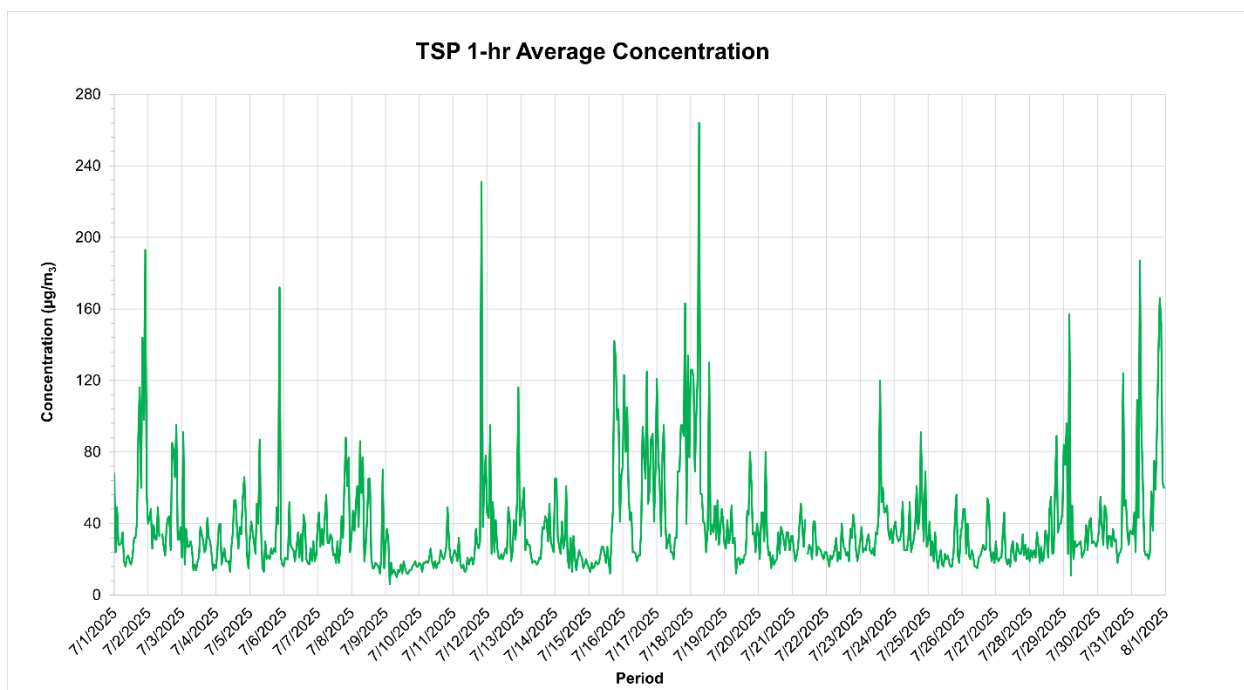


Figure A.4 Hourly TSP Concentrations Recorded at the AQMS during July 2025

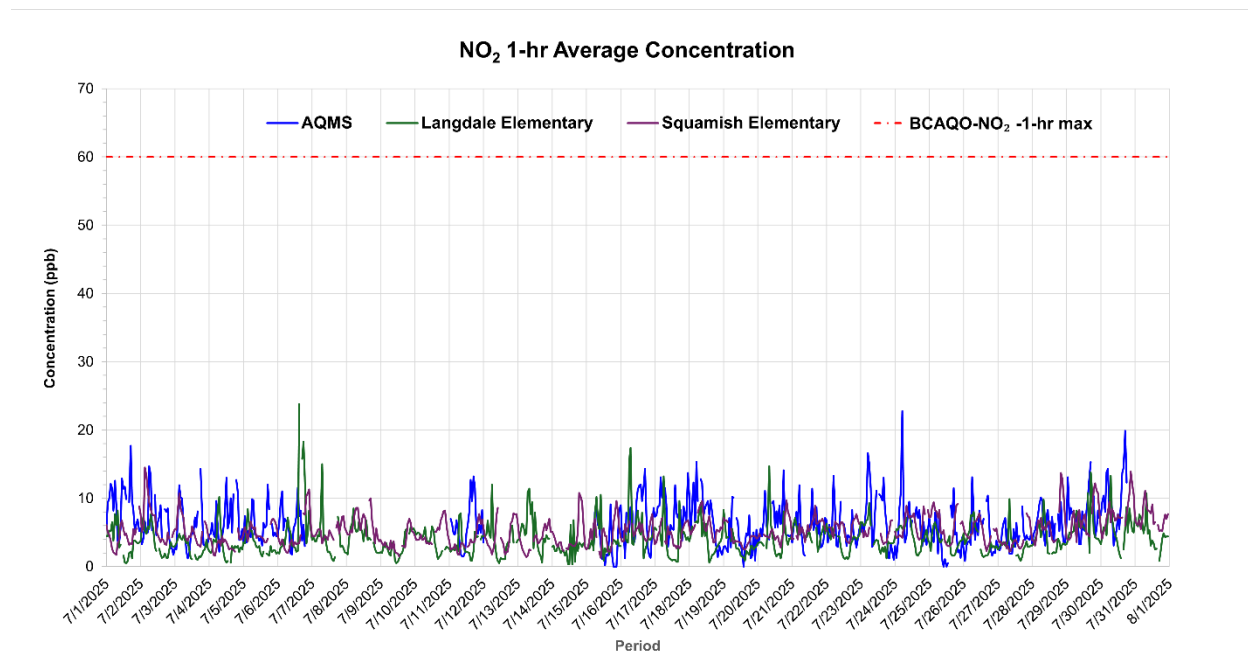


Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix A: Figures: Figures

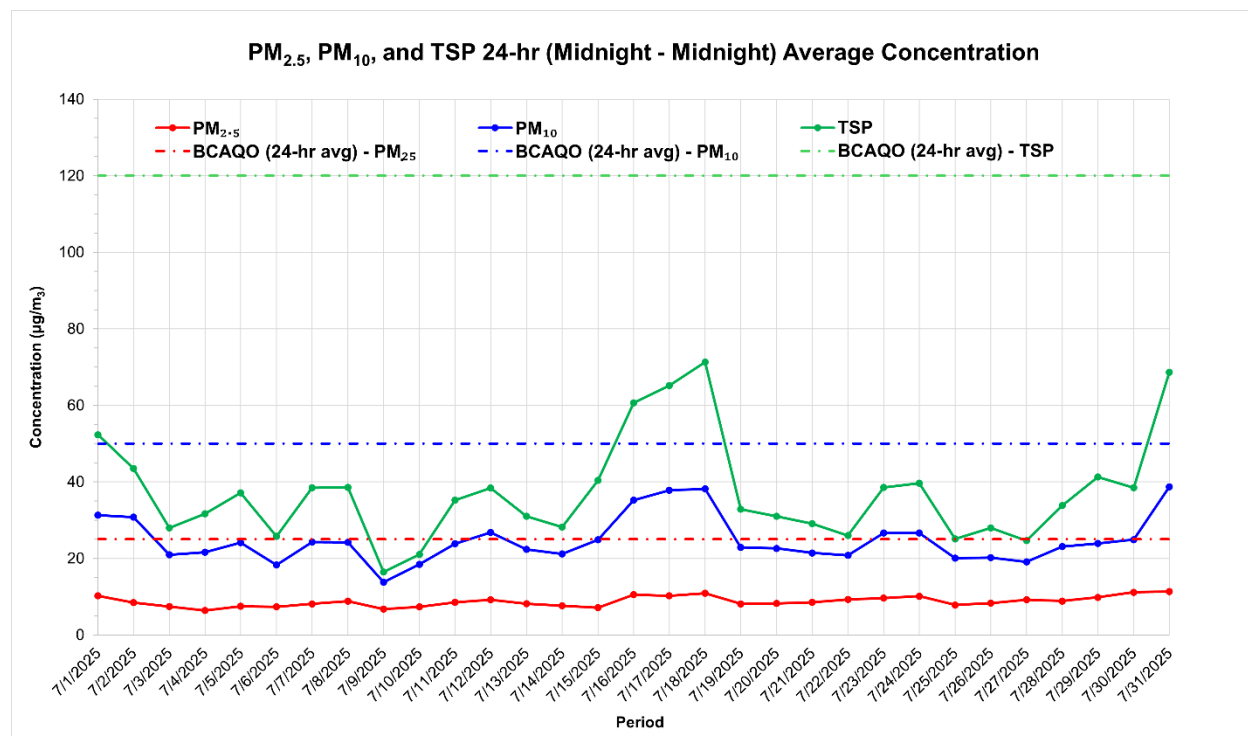
September 9, 2025

Figure A.5 Hourly NO₂ Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during July 2025



Note: NO₂ data for the following periods is invalid and is excluded from this report: July 6 at 20:00 hours to July 11 at 00:00 hours, July 12 at 01:00 hours to July 15 at 04:00 hours, and July 30 at 19:00 hours to July 31 at 23:00 hours.

Figure A.6 24-Hour Average PM Concentrations Recorded at the AQMS during July 2025



Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix A: Figures: Figures

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Figure A.7 24-Hour Average PM_{2.5} Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during July 2025

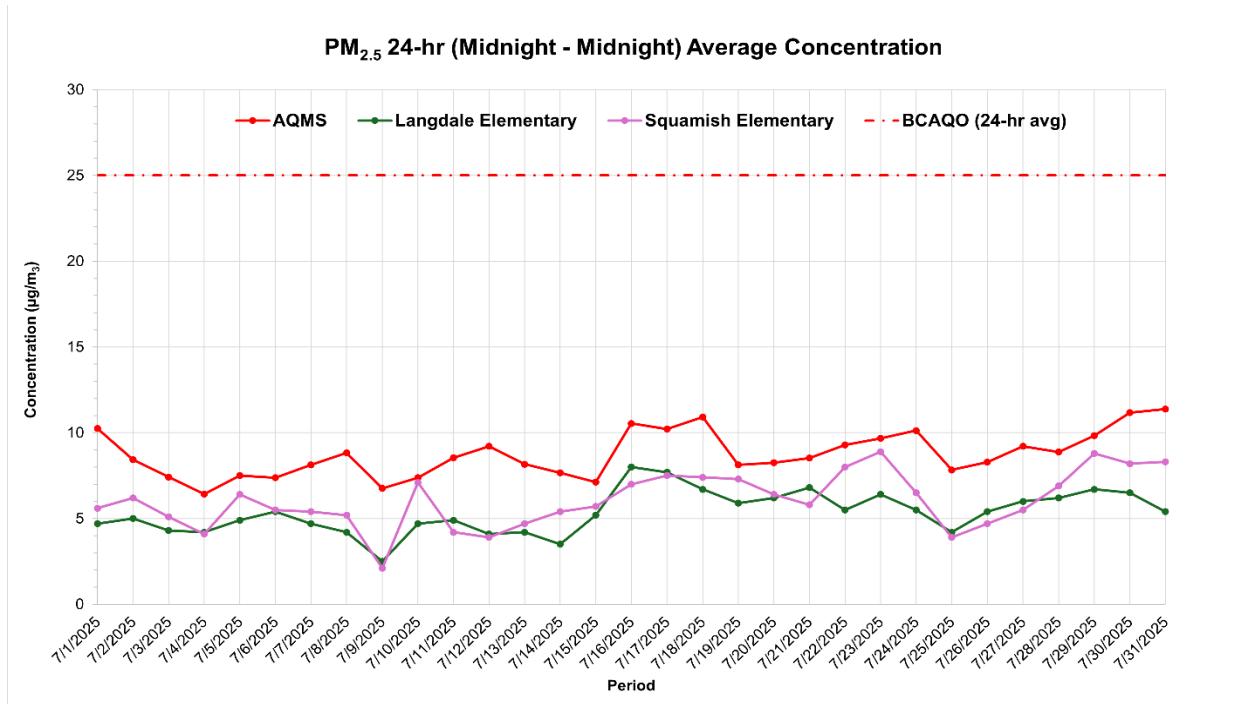
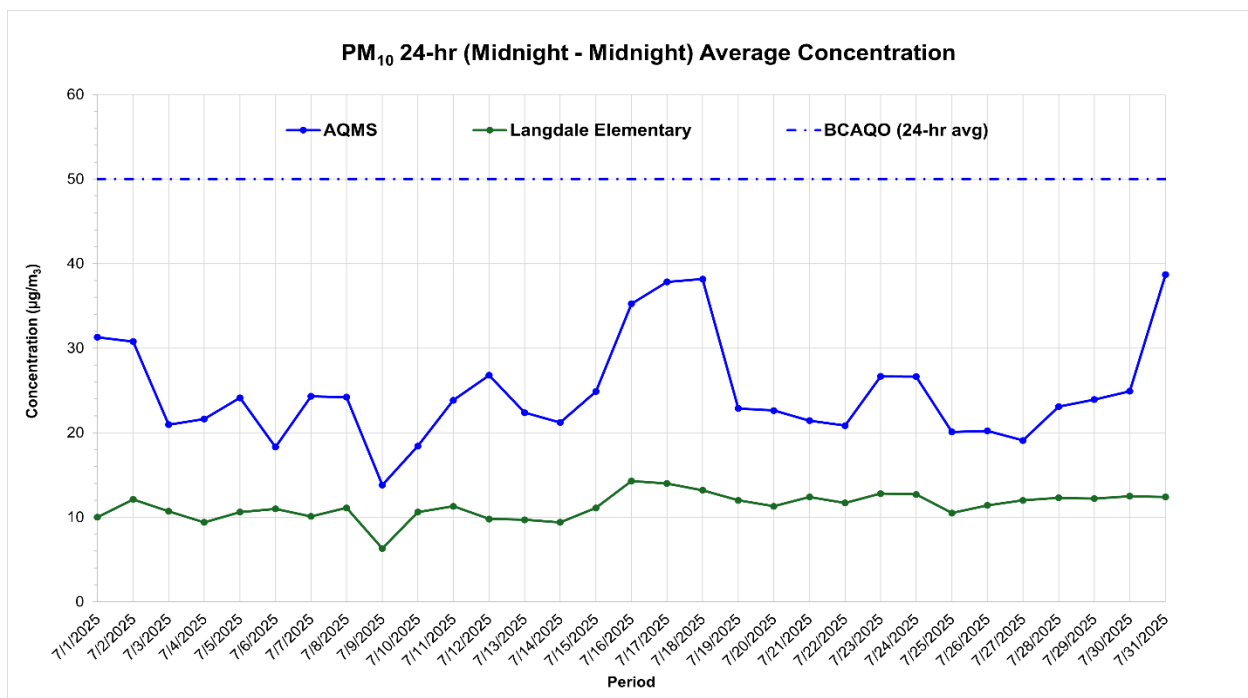


Figure A.8 24-Hour Average PM₁₀ Concentrations Recorded at the AQMS, and the Langdale Regional Air Quality Station during July 2025



Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix A: Figures: Figures

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Figure A.9 24-Hour Average TSP Concentrations Recorded at the AQMS during July 2025

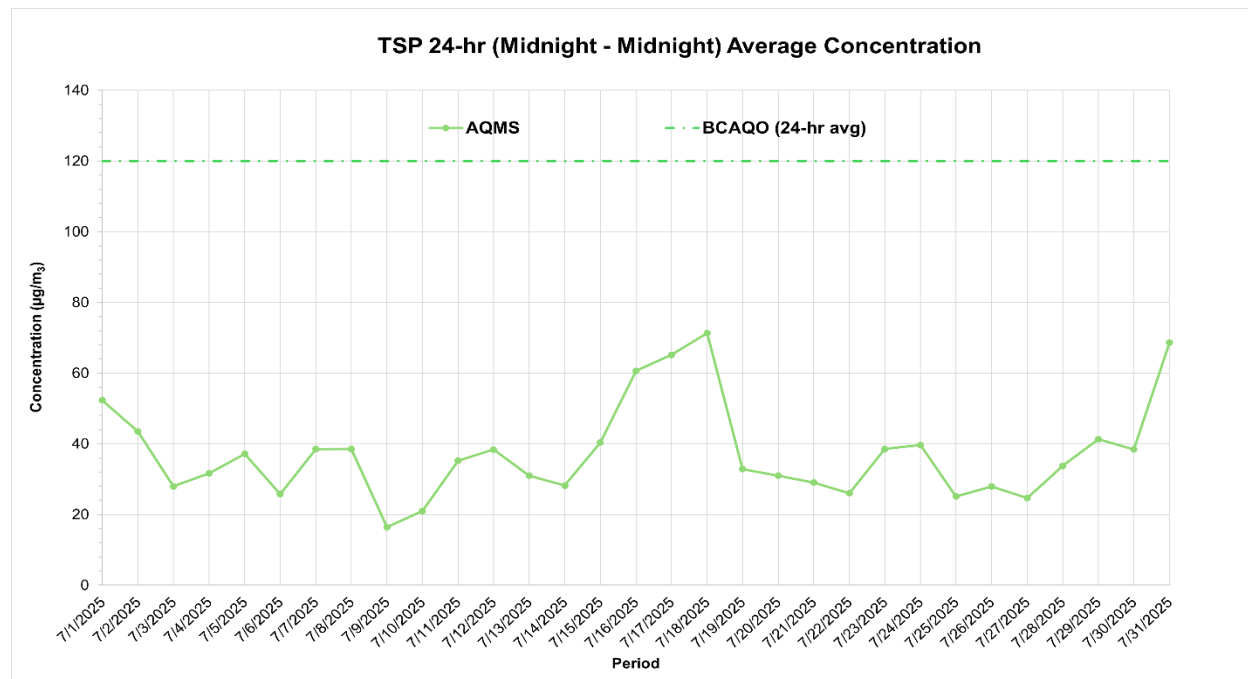
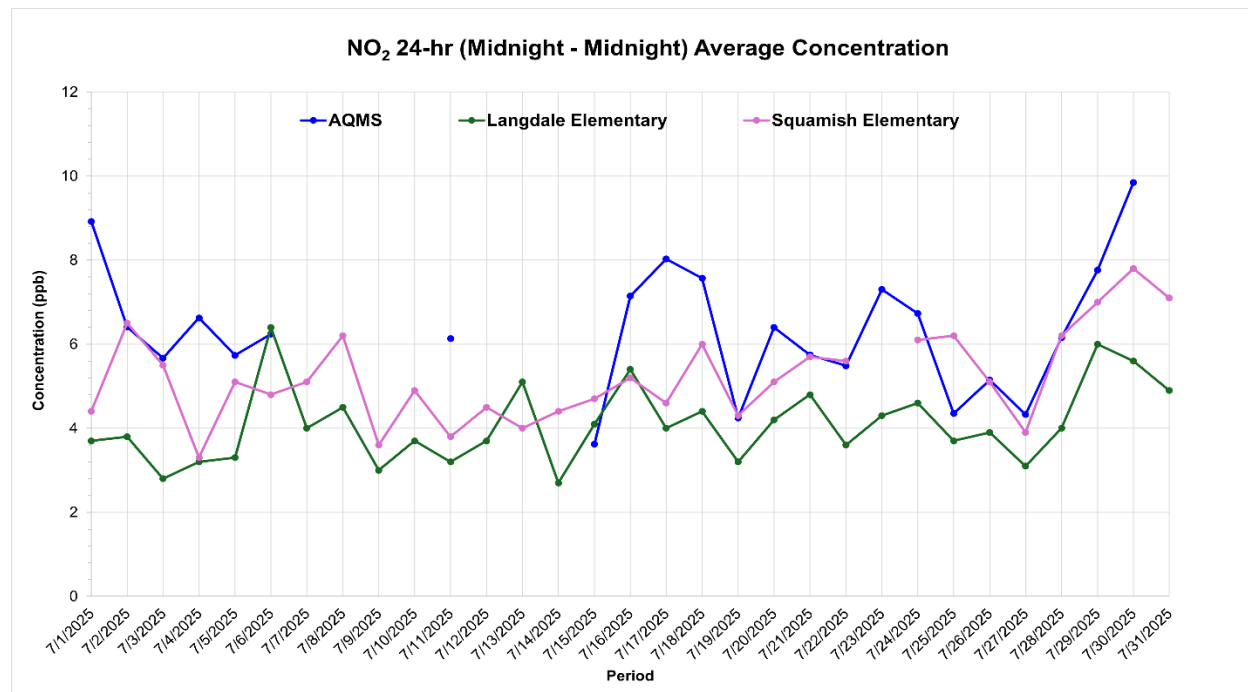


Figure A.10 24-Hour Average NO₂ Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during July 2025



Note: 24-hour average NO₂ data for July 7-10, July 12-14, and July 31 is invalid and is excluded from this report.



Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix A: Figures: Figures

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Figure A.11 Daily Average and Maximum Wind Speed Recorded at the Woodfibre LNG Meteorology Station during July 2025

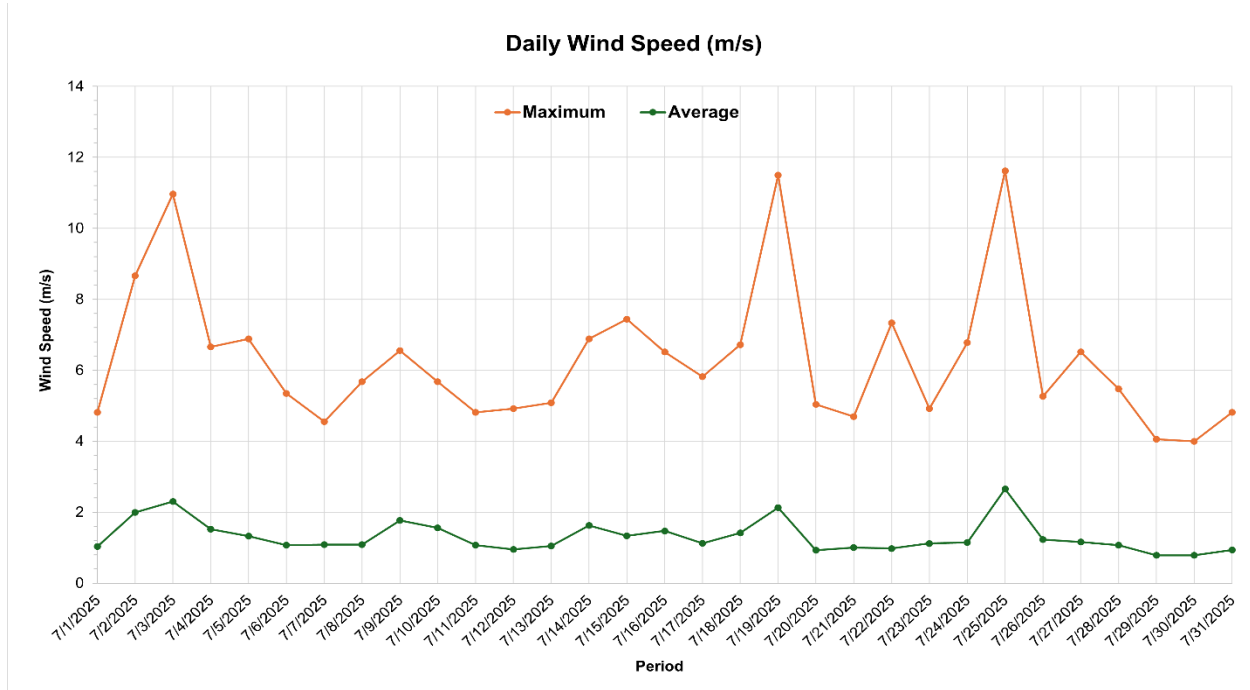
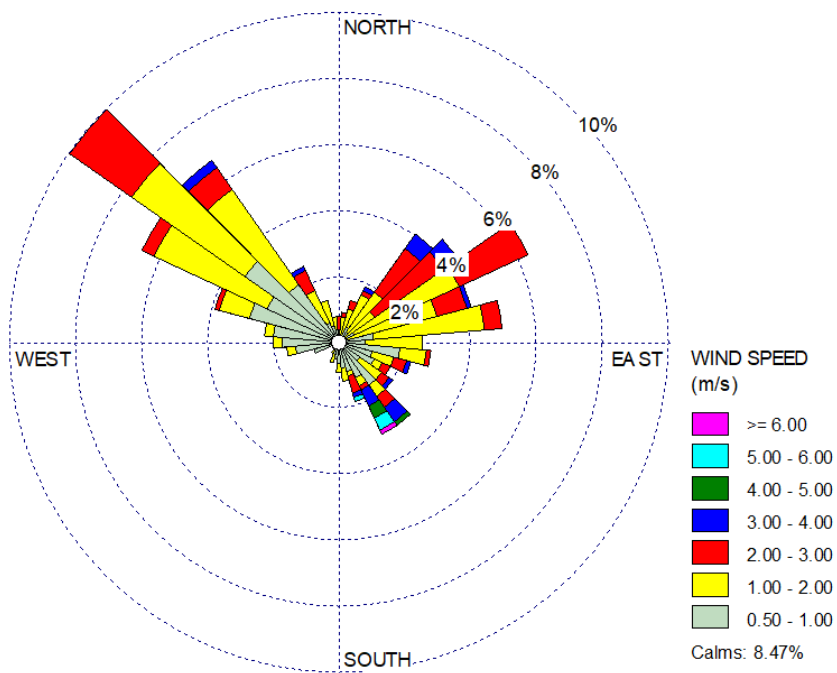


Figure A.12 Windrose for Woodfibre LNG Meteorology Station during July 2025

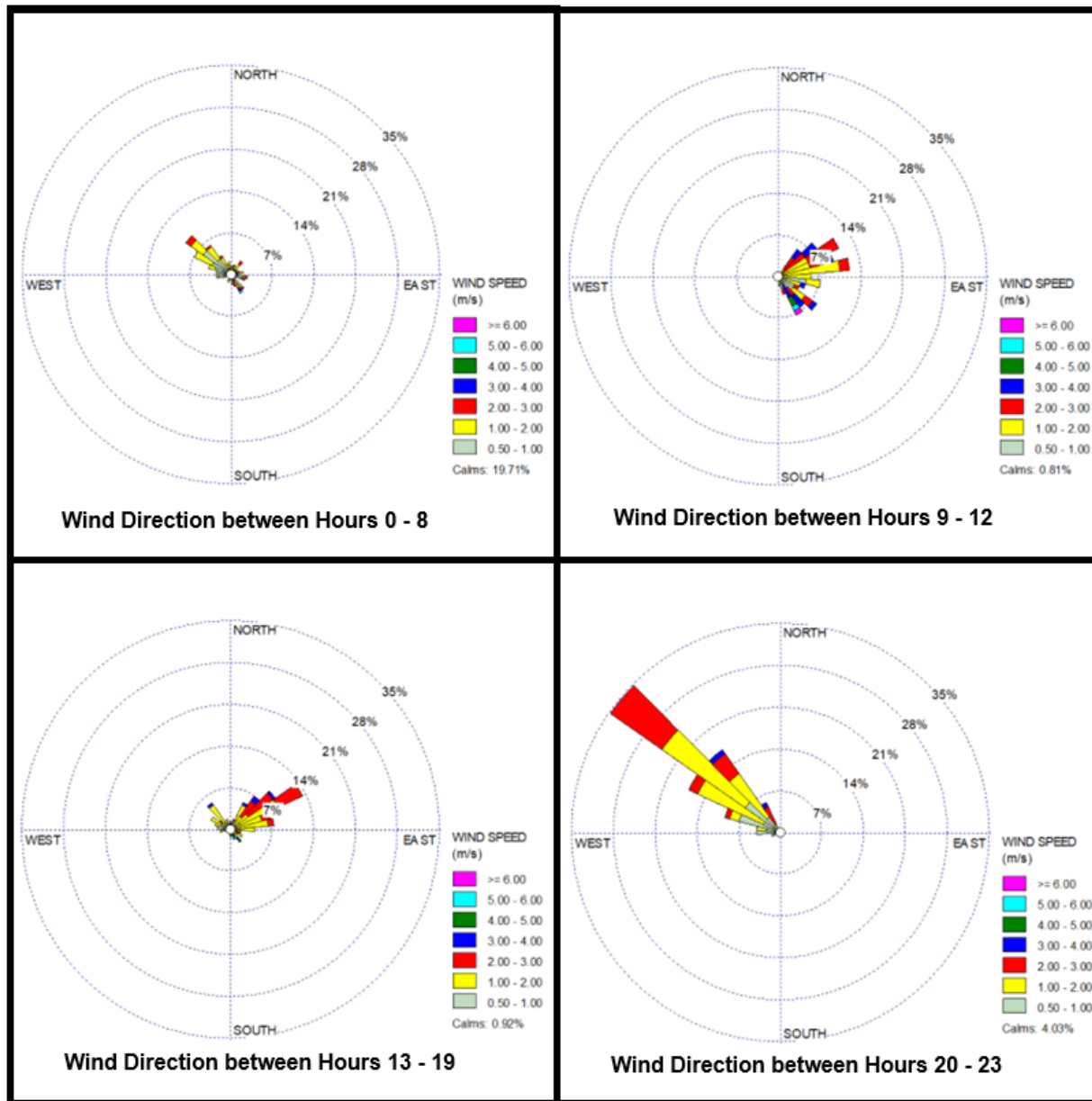


Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix A: Figures: Figures

September 9, 2025

Figure A.13 Windrose for Woodfibre LNG Meteorology Station for the hours of 0000 - 0800, 0900 - 1200, 1300 - 1900, and 2000 - 2300 (July 2025)



Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix A: Figures: Figures

September 9, 2025

Figure A.14 Daily Average, Minimum, and Maximum Air Temperature Recorded at the Woodfibre LNG Meteorology Station during July 2025

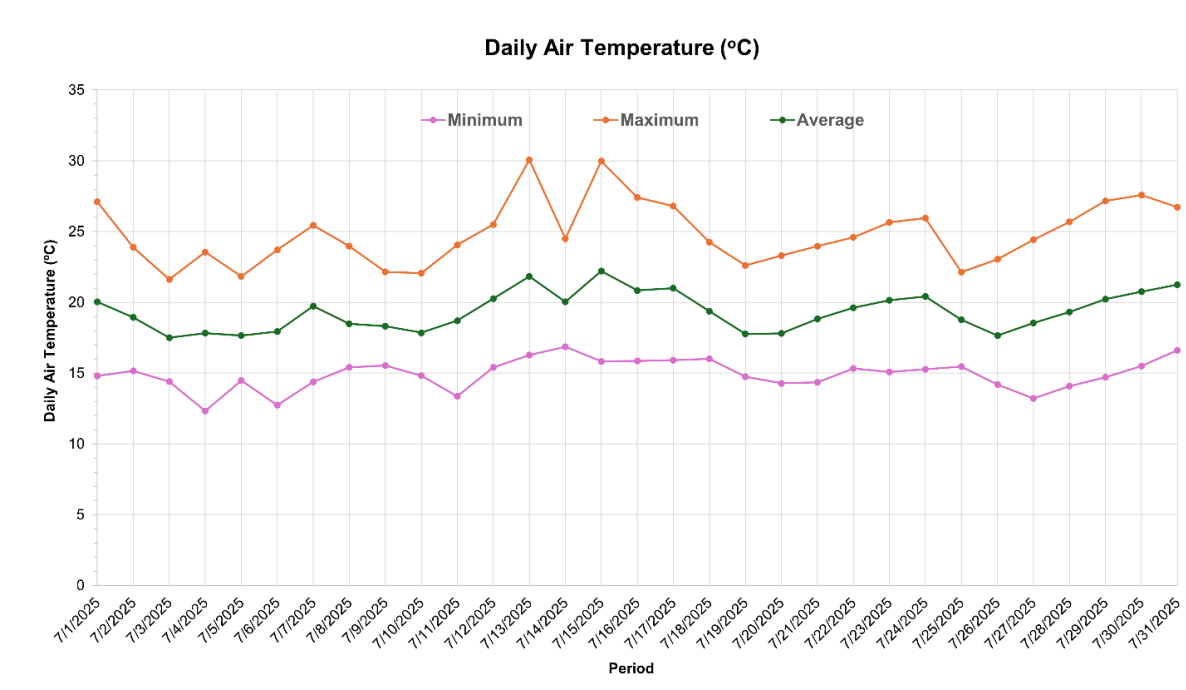
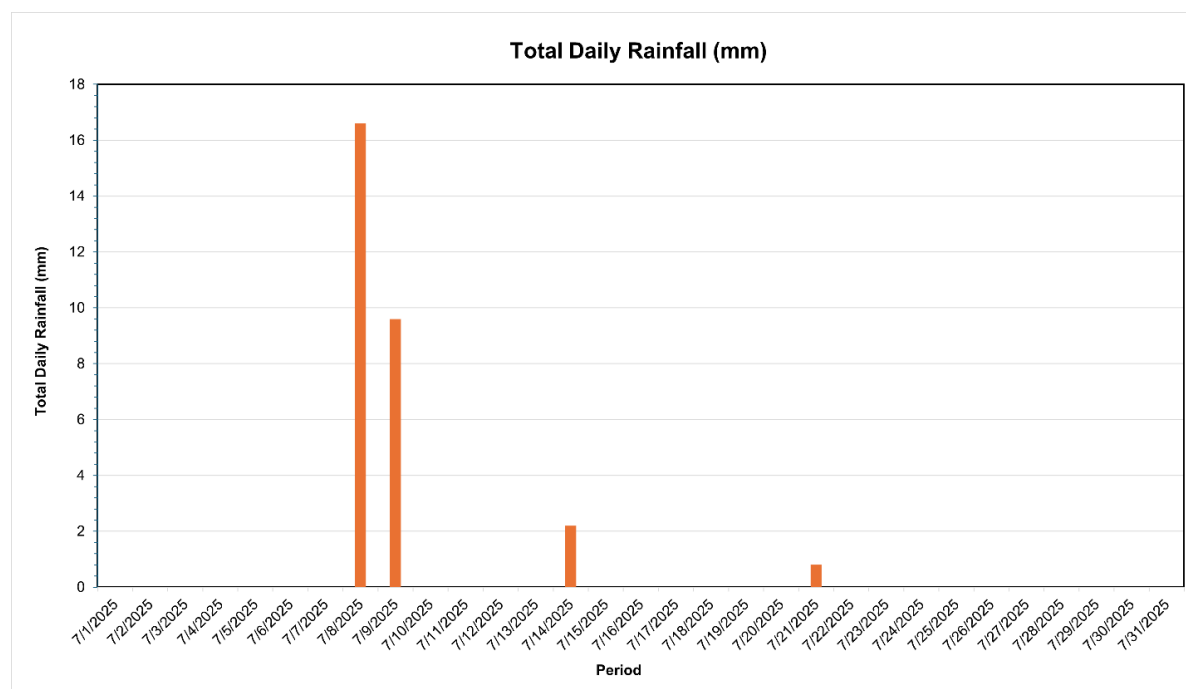


Figure A.15 Daily Rainfall Recorded at the Woodfibre LNG Meteorology Station during July 2025



Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix A: Figures: Figures
September 9, 2025

Figure A.16 Daily Average, Minimum, and Maximum Relative Humidity Recorded at the Woodfibre LNG Meteorology Station during July 2025

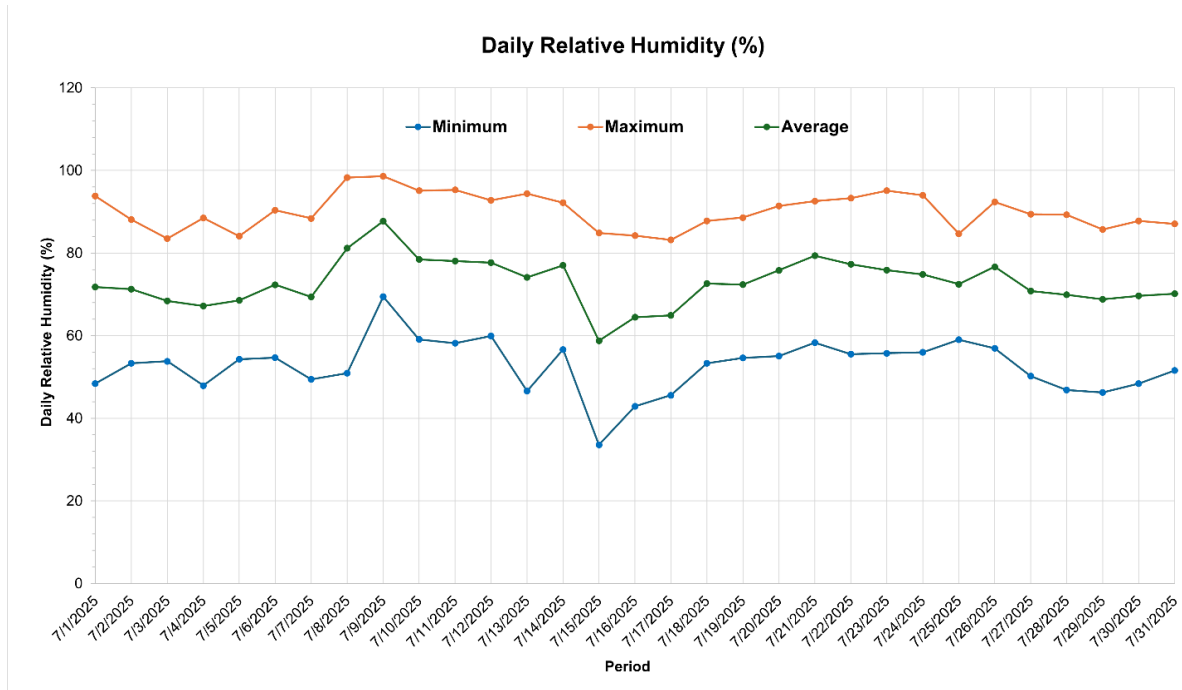
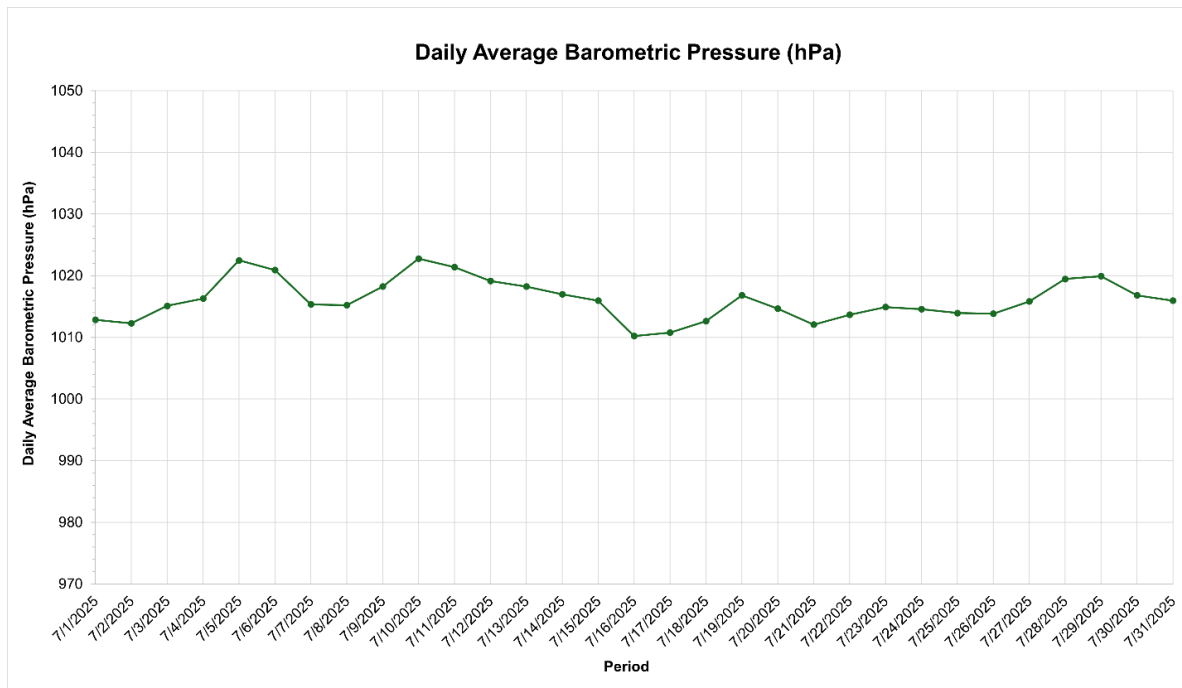


Figure A.17 Daily Average Barometric Pressure Recorded at the Woodfibre LNG Meteorology Station during July 2025



Appendix B Data Tables



Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix B: Data Tables: Data Tables

September 9, 2025

Table B.1 Daily PM_{2.5}, PM₁₀, TSP, and NO₂ Concentrations Recorded at the AQMS for July 2025

Date	AQMS (24-hr Average)				AQMS (1-hr Max)
	PM _{2.5}	PM ₁₀	TSP	NO ₂	NO ₂
	µg/m ³	µg/m ³	µg/m ³	ppb	ppb
7/1/2025	10.3	31.3	52.3	8.9	17.7
7/2/2025	8.4	30.8	43.5	6.4	14.7
7/3/2025	7.4	21.0	28.0	5.7	14.3
7/4/2025	6.4	21.6	31.7	6.6	13.0
7/5/2025	7.5	24.1	37.2	5.7	12.0
7/6/2025	7.4	18.3	25.8	6.2	11.6
7/7/2025	8.1	24.3	38.5	— ^a	— ^a
7/8/2025	8.8	24.2	38.5	— ^a	— ^a
7/9/2025	6.8	13.8	16.4	— ^a	— ^a
7/10/2025	7.4	18.4	21.0	— ^a	— ^a
7/11/2025	8.5	23.8	35.3	6.1	13.2
7/12/2025	9.2	26.8	38.4	— ^a	— ^a
7/13/2025	8.2	22.4	31.0	— ^a	— ^a
7/14/2025	7.7	21.2	28.2	— ^a	— ^a
7/15/2025	7.1	24.9	40.4	3.6	9.1
7/16/2025	10.5	35.3	60.6	7.1	14.3
7/17/2025	10.2	37.8	65.2	8.0	13.7
7/18/2025	10.9	38.2	71.3	7.6	15.3
7/19/2025	8.1	22.9	32.9	4.2	10.2
7/20/2025	8.3	22.6	31.0	6.4	14.1
7/21/2025	8.5	21.4	29.1	5.7	11.9
7/22/2025	9.3	20.8	26.0	5.5	13.3
7/23/2025	9.7	26.7	38.5	7.3	16.6
7/24/2025	10.1	26.6	39.7	6.7	22.8
7/25/2025	7.8	20.1	25.1	4.4	11.5
7/26/2025	8.3	20.2	28.0	5.1	13.1
7/27/2025	9.2	19.1	24.7	4.3	8.8
7/28/2025	8.9	23.1	33.8	6.2	10.1
7/29/2025	9.8	23.9	41.3	7.8	15.3
7/30/2025	11.2	24.9	38.5	9.8	19.9
7/31/2025	11.4	38.7	68.6	— ^a	— ^a

Note

^a Data unavailable due to the NO–NO₂–NO_x analyzer (Thermo Fisher Scientific – Model 42i) being unable to provide valid data during this period.



Woodfibre LNG Air Quality Monitoring Station Report for July 2025

Appendix B: Data Tables: Data Tables

September 9, 2025

Table B.2 Daily Wind Speed, Air Temperature, Relative Humidity, Barometric Pressure, and Rainfall Recorded at the Woodfibre LNG Meteorology Station for July 2025

Date	Daily Wind Speed (m/s)		Daily Air Temperature (°C)			Daily Relative Humidity (%)			Daily Average Pressure (hPa)	Daily Total Rainfall (mm)
	Max	Avg	Min	Max	Avg	Min	Max	Avg		
7/1/2025	4.8	1.0	14.8	27.1	20.0	48.4	93.8	71.8	1012.9	0.0
7/2/2025	8.7	2.0	15.2	23.9	18.9	53.3	88.1	71.3	1012.3	0.0
7/3/2025	11.0	2.3	14.4	21.6	17.5	53.8	83.5	68.4	1015.1	0.0
7/4/2025	6.7	1.5	12.3	23.6	17.8	47.9	88.5	67.2	1016.3	0.0
7/5/2025	6.9	1.3	14.5	21.8	17.7	54.3	84.1	68.5	1022.5	0.0
7/6/2025	5.3	1.1	12.7	23.7	17.9	54.7	90.4	72.3	1020.9	0.0
7/7/2025	4.5	1.1	14.4	25.4	19.7	49.4	88.4	69.4	1015.3	0.0
7/8/2025	5.7	1.1	15.4	24.0	18.5	50.9	98.3	81.2	1015.2	16.6
7/9/2025	6.6	1.8	15.5	22.2	18.3	69.5	98.6	87.7	1018.2	9.6
7/10/2025	5.7	1.6	14.8	22.1	17.9	59.1	95.1	78.4	1022.8	0.0
7/11/2025	4.8	1.1	13.4	24.1	18.7	58.2	95.3	78.1	1021.4	0.0
7/12/2025	4.9	1.0	15.4	25.5	20.3	59.9	92.8	77.7	1019.1	0.0
7/13/2025	5.1	1.0	16.3	30.1	21.8	46.6	94.4	74.1	1018.2	0.0
7/14/2025	6.9	1.6	16.9	24.5	20.0	56.7	92.2	77.1	1017.0	2.2
7/15/2025	7.4	1.3	15.8	30.0	22.2	33.6	84.9	58.8	1015.9	0.0
7/16/2025	6.5	1.5	15.9	27.4	20.8	42.9	84.2	64.5	1010.2	0.0
7/17/2025	5.8	1.1	15.9	26.8	21.0	45.6	83.2	64.9	1010.8	0.0
7/18/2025	6.7	1.4	16.0	24.3	19.4	53.3	87.8	72.6	1012.6	0.0
7/19/2025	11.5	2.1	14.8	22.6	17.8	54.6	88.6	72.4	1016.8	0.0
7/20/2025	5.0	0.9	14.3	23.3	17.8	55.1	91.4	75.8	1014.6	0.0
7/21/2025	4.7	1.0	14.3	24.0	18.8	58.3	92.6	79.4	1012.1	0.8
7/22/2025	7.3	1.0	15.3	24.6	19.6	55.5	93.3	77.3	1013.6	0.0
7/23/2025	4.9	1.1	15.1	25.7	20.1	55.8	95.1	75.9	1014.9	0.0
7/24/2025	6.8	1.1	15.3	26.0	20.4	56.0	94.0	74.8	1014.6	0.0
7/25/2025	11.6	2.7	15.5	22.1	18.8	59.0	84.7	72.5	1013.9	0.0
7/26/2025	5.3	1.2	14.2	23.0	17.7	56.9	92.4	76.7	1013.8	0.0
7/27/2025	6.5	1.2	13.2	24.4	18.5	50.2	89.4	70.8	1015.8	0.0
7/28/2025	5.5	1.1	14.1	25.7	19.3	46.8	89.3	69.9	1019.5	0.0
7/29/2025	4.1	0.8	14.7	27.2	20.2	46.3	85.7	68.8	1019.9	0.0
7/30/2025	4.0	0.8	15.5	27.6	20.8	48.4	87.8	69.7	1016.8	0.0
7/31/2025	4.8	0.9	16.6	26.7	21.2	51.6	87.1	70.1	1015.9	0.0



Appendix C Weekly AQMS Reports



WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from June 30 to July 6, 2025.

Objective

This report summarizes the air quality monitoring data for the week June 30 to July 6, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

Date	PM _{2.5} (µg/m ³)			PM ₁₀ (µg/m ³)			TSP (µg/m ³)			NO ₂ (ppb)		
	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
30 Jun	4	16	8.4	12	39	20.6	17	62	29.1	1.6	18.2	7.7
1 Jul	6	18	10.3	13	100	31.3	16	193	52.3	3.5	17.7	8.9
2 Jul	4	11	8.4	21	59	30.8	22	95	43.5	1.7	14.7	6.4
3 Jul	4	15	7.4	13	51	21.0	14	91	28.0	1.2	14.3	5.7
4 Jul	3	11	6.4	10	40	21.6	13	66	31.7	2.2	13.0	6.6
5 Jul	4	11	7.5	10	98	24.1	13	172	37.2	3.1	12.0	5.7
6 Jul	4	11	7.4	14	30	18.3	16	52	25.8	1.8	11.6	6.2

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 µg/m³ - Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM₁₀: 50 µg/m³ - Achievement based on the daily (24-hr) average.
- TSP: 120 µg/m³ - Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb - Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicate that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

Table 2: Weekly Averages Summary – PM_{2.5}, PM₁₀, TSP and NO₂

Pollutant	Units	1-hr Min	1-hr Max	Weekly average	Trigger Limits (2/3 of the AQO)	Time Above Trigger Limit (Days)	Time Above AQO (Days)
PM _{2.5}	µg/m ³	3	18	8.0	16.7 (24-hr avg)	0	0
PM ₁₀	µg/m ³	10	100	24.0	33.3 (24-hr avg)	0	0
TSP	µg/m ³	13	193	35.4	80 (24-hr avg)	0	0
NO ₂	ppb	1.2	18.2	6.7	40 (1-hr avg max)	0	0

Table 3: Summary of Meteorological Station Results

Date	Wind Speed (m/s)		Ambient Temperature (°C)			Total Precipitation (mm)
	Max	24-hr Avg	Min	Max	24-hr Avg	
30 Jun	3.3	0.7	14.3	27.8	19.7	0.0
1 Jul	4.8	1.0	14.8	27.1	20.0	0.0
2 Jul	8.7	2.0	15.2	23.9	18.9	0.0
3 Jul	11.0	2.3	14.4	21.6	17.5	0.0
4 Jul	6.7	1.5	12.3	23.6	17.8	0.0
5 Jul	6.9	1.3	14.5	21.8	17.7	0.0
6 Jul	5.3	1.1	12.7	23.7	17.9	0.0

Table 4: Passive SO₂ and VOC Sampling

Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments
30-Jun to 6-Jul	Yes	Yes	Yes	No	NA

Note: SO₂ and VOC passive samples are swapped on a monthly basis. Passive samples were swapped on July 3, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details
Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from June 30 to July 6, construction activities included hauling and loading rock from the 4100 stockpile to 1200D and the East Creek Diversion, rock breaking in 1200D, trenching and sand bedding in the FIWP-03 and 1300 areas, backfilling around sumps at P10 and M02, shaping berms and laydown spaces in 1200D and the West Pond, grading and cleaning around foundation areas, and mechanical scaling at MS03. Dust mitigation measures included site cleanup, wash car top-ups, ongoing water truck operations and erosion and sediment controls.

Summary of Daily Reports and Action Taken

Category	Details	Action Taken	Resolution Status / Anticipated Completion Date
AQ Exceedances Report	No AQ exceedances recorded for this Period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaints were received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all instruments operated as intended, successfully collecting air quality data throughout the reporting period. No air quality exceedances of the British Columbia Air Quality Objectives were recorded.

WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from July 7 to July 13, 2025.

Objective

This report summarizes the air quality monitoring data for the week July 7 to July 13, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

Date	PM _{2.5} (µg/m ³)			PM ₁₀ (µg/m ³)			TSP (µg/m ³)			NO ₂ (ppb) ¹		
	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
7 Jul	3	19	8.1	17	49	24.3	18	88	38.5	–	–	–
8 Jul	4	15	8.8	13	42	24.2	12	86	38.5	–	–	–
9 Jul	4	11	6.8	6	27	13.8	6	37	16.4	–	–	–
10 Jul	4	12	7.4	14	27	18.4	13	49	21.0	–	–	–
11 Jul	6	14	8.5	14	113	23.8	13	231	35.3	1.5	13.2	6.1
12 Jul	5	14	9.2	18	71	26.8	19	116	38.4	–	–	–
13-Jul	4	13	8.2	15	42	22.4	17	60	31.0	–	–	–

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 µg/m³ - Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM₁₀: 50 µg/m³ - Achievement based on the daily (24-hr) average.
- TSP: 120 µg/m³ - Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb - Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicate that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

¹ Data is unavailable due to the NO₂ gas analyzer being unable to collect valid data.

Table 2: Weekly Averages Summary – PM_{2.5}, PM₁₀, TSP and NO₂

Pollutant	Units	1-hr Min	1-hr Max	Weekly average	Trigger Limits (2/3 of the AQO)	Time Above Trigger Limit (Days)	Time Above AQO (Days)
PM _{2.5}	µg/m ³	3	19	8.1	16.7 (24-hr avg)	0	0
PM ₁₀	µg/m ³	6	113	22.0	33.3 (24-hr avg)	0	0
TSP	µg/m ³	6	231	31.3	80 (24-hr avg)	0	0
NO ₂ ¹	ppb	1.5	13.2	6.1	40 (1-hr avg max)	0	0

Note: ¹ The NO₂ weekly average is based on data collected from a single day, July 11, 2025.

Table 3: Summary of Meteorological Station Results

Date	Wind Speed (m/s)		Ambient Temperature (°C)			Total Precipitation (mm)
	Max	24-hr Avg	Min	Max	24-hr Avg	
7 Jul	4.5	1.1	14.4	25.4	19.7	0.0
8 Jul	5.7	1.1	15.4	24.0	18.5	16.6
9 Jul	6.6	1.8	15.5	22.2	18.3	9.6
10 Jul	5.7	1.6	14.8	22.1	17.9	0.0
11 Jul	4.8	1.1	13.4	24.1	18.7	0.0
12 Jul	4.9	1.0	15.4	25.5	20.3	0.0
13-Jul	5.1	1.0	16.3	30.1	21.8	0.0

Table 4: Passive SO₂ and VOC Sampling

Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments
7-Jul to 13-Jul	No	No	No	No	No sample swap or lab analysis was performed during this period.

Note: This table mostly contains "No" entries because SO₂ and VOC passive samples are swapped on a monthly basis, and this reporting period may not coincide with the sampling schedule. Passive samples were swapped on July 3, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details
Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from July 7 to July 13, construction activities included rock breaking at the North Access Road (Flare Stack Anchor B area) and along the 1100 North wall, slope stabilization and rock exposure at the MSE wall location, excavation between M02 and the Batch Plant, grading at the Batch Plant, and backfilling near M10. Dust mitigation measures implemented during this period included general site cleanup, continuous wet curing of concrete surfaces, and ongoing erosion and sediment control activities.

Summary of Daily Reports and Action Taken

Category	Details	Action Taken	Resolution Status / Anticipated Completion Date
AQ Exceedances Report	No AQ exceedances recorded for this Period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaints were received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all particulate matter monitoring instruments operated as intended, successfully collecting air quality data throughout the reporting period. However, the NO₂ gas analyzer could not collect valid data during the week except on July 11. No air quality exceedances of the British Columbia Air Quality Objectives were recorded.

WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from July 14 to July 20, 2025.

Objective

This report summarizes the air quality monitoring data for the week July 14 to July 20, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

Date	PM _{2.5} (µg/m ³)			PM ₁₀ (µg/m ³)			TSP (µg/m ³)			NO ₂ (ppb) ¹		
	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
14 Jul	3	13	7.7	12	38	21.2	13	65	28.2	–	–	–
15 Jul	3	11	7.1	14	64	24.9	12	142	40.4	0.0	9.1	3.6
16 Jul	7	15	10.5	16	71	35.3	19	125	60.6	1.2	14.3	7.1
17 Jul	5	19	10.2	17	89	37.8	20	163	65.2	2.9	13.7	8.0
18 Jul	7	19	10.9	20	102	38.2	24	264	71.3	1.4	15.3	7.6
19 Jul	4	12	8.1	14	38	22.9	12	80	32.9	0.0	10.2	4.2
20 Jul	5	15	8.3	14	35	22.6	15	80	31.0	3.2	14.1	6.4

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 µg/m³ - Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM₁₀: 50 µg/m³ - Achievement based on the daily (24-hr) average.
- TSP: 120 µg/m³ - Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb - Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicate that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

¹ Data is unavailable for July 14, 2025, due to the NO₂ gas analyzer being unable to collect valid data.

Table 2: Weekly Averages Summary – PM_{2.5}, PM₁₀, TSP and NO₂

Pollutant	Units	1-hr Min	1-hr Max	Weekly average	Trigger Limits (2/3 of the AQO)	Time Above Trigger Limit (Days)	Time Above AQO (Days)
PM _{2.5}	µg/m ³	3	19	9.0	16.7 (24-hr avg)	0	0
PM ₁₀	µg/m ³	12	102	29.0	33.3 (24-hr avg)	3	0
TSP	µg/m ³	12	264	47.1	80 (24-hr avg)	0	0
NO ₂	ppb	0.0	15.3	6.2	40 (1-hr avg max)	0	0

Table 3: Summary of Meteorological Station Results

Date	Wind Speed (m/s)		Ambient Temperature (°C)			Total Precipitation (mm)
	Max	24-hr Avg	Min	Max	24-hr Avg	
14 Jul	6.9	1.6	16.9	24.5	20.0	2.2
15 Jul	7.4	1.3	15.8	30.0	22.2	0.0
16 Jul	6.5	1.5	15.9	27.4	20.8	0.0
17 Jul	5.8	1.1	15.9	26.8	21.0	0.0
18 Jul	6.7	1.4	16.0	24.3	19.4	0.0
19 Jul	11.5	2.1	14.8	22.6	17.8	0.0
20 Jul	5.0	0.9	14.3	23.3	17.8	0.0

Table 4: Passive SO₂ and VOC Sampling

Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments
14-Jun to 20-Jul	No	No	No	No	No sample swap or lab analysis was performed during this period.

Note: This table mostly contains "No" entries because SO₂ and VOC passive samples are swapped on a monthly basis, and this reporting period may not coincide with the sampling schedule. Passive samples were swapped on July 3, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details
Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from July 14 to July 20, construction activities included rock breaking at the North Access Road (Flare Stack Anchor B area) and Area 1100, excavation at M08 East and 1200A, backfilling in M09, 1200D, 1300, and 4200, material loading and stockpiling from 1200A to 1300, and rock face cleaning in Zone 5 and Area 1100. Dust mitigation measures included general site cleanup and the extension of construction fencing.

Summary of Daily Reports and Action Taken

Category	Details	Action Taken	Resolution Status / Anticipated Completion Date
AQ Exceedances Report	No AQ exceedances recorded for this Period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaints were received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all instruments operated as intended, successfully collecting air quality data throughout the reporting period. On July 16, 17, and 18, 24-hour average ambient PM₁₀ concentrations were above the trigger level of 33.3 µg/m³. As a mitigation measure, water trucks were deployed, and their operating frequency was increased to reduce dust emissions. No air quality exceedances of the British Columbia Air Quality Objectives were recorded.

WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from July 21 to July 27, 2025.

Objective

This report summarizes the air quality monitoring data for the week July 21 to July 27, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

Date	PM _{2.5} (µg/m ³)			PM ₁₀ (µg/m ³)			TSP (µg/m ³)			NO ₂ (ppb)		
	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
21 Jul	5	15	8.5	16	28	21.4	19	51	29.1	1.6	11.9	5.7
22 Jul	6	18	9.3	15	29	20.8	16	45	26.0	2.8	13.3	5.5
23 Jul	6	12	9.7	18	57	26.7	22	120	38.5	1.0	16.6	7.3
24 Jul	2	16	10.1	17	45	26.6	24	91	39.7	1.3	22.8	6.7
25 Jul	4	10	7.8	15	31	20.1	15	56	25.1	0.0	11.5	4.4
26 Jul	4	20	8.3	14	33	20.2	15	54	28.0	0.8	13.1	5.1
27 Jul	5	12	9.2	14	31	19.1	16	46	24.7	1.9	8.8	4.3

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 µg/m³ - Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM₁₀: 50 µg/m³ - Achievement based on the daily (24-hr) average.
- TSP: 120 µg/m³ - Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb - Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicate that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

Table 2: Weekly Averages Summary – PM_{2.5}, PM₁₀, TSP and NO₂

Pollutant	Units	1-hr Min	1-hr Max	Weekly average	Trigger Limits (2/3 of the AQO)	Time Above Trigger Limit (Days)	Time Above AQO (Days)
PM _{2.5}	µg/m ³	2	20	9.0	16.7 (24-hr avg)	0	0
PM ₁₀	µg/m ³	14	57	22.1	33.3 (24-hr avg)	0	0
TSP	µg/m ³	15	120	30.1	80 (24-hr avg)	0	0
NO ₂	ppb	0.0	22.8	5.6	40 (1-hr avg max)	0	0

Table 3: Summary of Meteorological Station Results

Date	Wind Speed (m/s)		Ambient Temperature (°C)			Total Precipitation (mm)
	Max	24-hr Avg	Min	Max	24-hr Avg	
21 Jul	4.7	1.0	14.3	24.0	18.8	0.8
22 Jul	7.3	1.0	15.3	24.6	19.6	0.0
23 Jul	4.9	1.1	15.1	25.7	20.1	0.0
24 Jul	6.8	1.1	15.3	26.0	20.4	0.0
25 Jul	11.6	2.7	15.5	22.1	18.8	0.0
26 Jul	5.3	1.2	14.2	23.0	17.7	0.0
27 Jul	6.5	1.2	13.2	24.4	18.5	0.0

Table 4: Passive SO₂ and VOC Sampling

Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments
21-Jul to 27-Jul	No	No	No	No	No sample swap or lab analysis was performed during this period.

Note: This table mostly contains "No" entries because SO₂ and VOC passive samples are swapped on a monthly basis, and this reporting period may not coincide with the sampling schedule. Passive samples were swapped on July 3, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details
Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from July 21 to July 27, construction activities included offloading an aggregate barge and stockpiling in the 4200 Area, excavation in the 4200 Area, backfilling in the 1300 Area, M02, M09, and FIWP 3 Areas, grading around M02 and M09, and placing bedding sand in the P08 ground grid trench. Dust mitigation measures included general site and walkway cleanup.

Summary of Daily Reports and Action Taken

Category	Details	Action Taken	Resolution Status / Anticipated Completion Date
AQ Exceedances Report	No AQ exceedances recorded for this Period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaints were received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all instruments operated as intended, successfully collecting air quality data throughout the reporting period. No air quality exceedances of the British Columbia Air Quality Objectives were recorded.

WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from July 28 to Aug 3, 2025.

Objective

This report summarizes the air quality monitoring data for the week July 28 to Aug 3, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

Date	PM _{2.5} (µg/m ³)			PM ₁₀ (µg/m ³)			TSP (µg/m ³)			NO ₂ (ppb) ¹		
	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
28 Jul	6	13	8.9	11	46	23.1	18	89	33.8	3.1	10.1	6.2
29 Jul	7	13	9.8	14	47	23.9	11	157	41.3	3.3	15.3	7.8
30 Jul	7	19	11.2	17	58	24.9	18	124	38.5	3.1	19.9	9.8
31 Jul	4	18	11.4	18	87	38.7	20	187	68.6	–	–	–
1 Aug	6	14	10.4	18	45	27.9	19	70	43.1	–	–	–
2 Aug	5	17	10.3	16	40	24.0	18	90	35.5	–	–	–
3 Aug	3	17	9.6	15	33	19.2	15	45	23.3	–	–	–

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 µg/m³ - Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM₁₀: 50 µg/m³ - Achievement based on the daily (24-hr) average.
- TSP: 120 µg/m³ - Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb - Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicate that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

¹ Data is unavailable from July 31 to August 3 due to the NO₂ gas analyzer being unable to collect valid data.

Table 2: Weekly Averages Summary – PM_{2.5}, PM₁₀, TSP and NO₂

Pollutant	Units	1-hr Min	1-hr Max	Weekly average	Trigger Limits (2/3 of the AQO)	Time Above Trigger Limit (Days)	Time Above AQO (Days)
PM _{2.5}	µg/m ³	3	19	10.2	16.7 (24-hr avg)	0	0
PM ₁₀	µg/m ³	11	87	26.0	33.3 (24-hr avg)	1	0
TSP	µg/m ³	11	187	40.6	80 (24-hr avg)	0	0
NO ₂ ¹	ppb	3.1	19.9	7.9	40 (1-hr avg max)	0	0

Note: ¹ The NO₂ weekly average is based on data collected from July 28 to July 30, 2025.

Table 3: Summary of Meteorological Station Results

Date	Wind Speed (m/s)		Ambient Temperature (°C)			Total Precipitation (mm)
	Max	24-hr Avg	Min	Max	24-hr Avg	
28 Jul	5.5	1.1	14.1	25.7	19.3	0.0
29 Jul	4.1	0.8	14.7	27.2	20.2	0.0
30 Jul	4.0	0.8	15.5	27.6	20.8	0.0
31 Jul	4.8	0.9	16.6	26.7	21.2	0.0
1 Aug	4.7	1.0	16.7	26.3	21.0	0.0
2 Aug	6.9	1.2	16.2	26.6	20.2	0.0
3 Aug	9.7	1.3	15.3	23.5	18.8	0.0

Table 4: Passive SO₂ and VOC Sampling

Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments
28-Jul to 3-Aug	Yes	Yes	Yes	Yes	Exposure Period (June): SO ₂ = <0.2 ppb & VOC = <0.7 ppb.

Note: SO₂ and VOC passive samples are swapped on a monthly basis. Passive samples were swapped on August 1, 2025, and shipped to AGAT Labs. The laboratory analysis report for the exposure periods from June 2 to July 3 (VOC and SO₂) was received on July 28, 2025.

On-Site Dust Observation Report and Work Activities Details
Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from July 28 to Aug 3, construction activities included backfilling at FIWP 3, Trench 3, and the Flare Stack; excavation and piping placement preparation at FIWP 09; slope stabilization at the MSE wall location; west pond clean-up; and finishing snap-back protection at the East Barge ramp. Dust mitigation measures included water truck making rounds throughout the night.

Summary of Daily Reports and Action Taken

On July 31, the recorded PM₁₀ concentration was 38.7 µg/m³, which was above the trigger level of 33.3 µg/m³, and as mitigation, the water truck was operating on that date.

Category	Details	Action Taken	Resolution Status / Anticipated Completion Date
AQ Exceedances Report	No AQ exceedances recorded for this Period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaints were received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all particulate matter monitoring instruments operated as intended, successfully collecting air quality data throughout the reporting period. However, the NO₂ gas analyzer could not collect valid data from July 31 to August 3, 2025. NO₂ gas analyzer was recalibrated on August 6, 2025. No air quality exceedances of the British Columbia Air Quality Objectives were recorded.

Appendix D Passive SO₂ and VOC Samples – Lab Analysis Report



CLIENT NAME: STANTEC CONSULTING LTD
100-75 24TH STREET
EAST SASKATOON, SK S7K 0K3

ATTENTION TO: Dan Jarratt/Kashif Choudhry

PROJECT: Woodfibre LNG

AGAT WORK ORDER: 25C332424

AIR QUALITY MONITORING REVIEWED BY: Carmen Andrei, AQM Lab Supervisor

DATE REPORTED: Aug 21, 2025

PAGES (INCLUDING COVER): 6

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 299-2000

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



AGAT Laboratories

Air Quality Summary

AGAT WORK ORDER: 25C332424

PROJECT: Woodfibre LNG

3650 – 21 Street NE
CALGARY, ALBERTA
CANADA T2E 6V6
TEL (403)299-2000

<http://www.agatlabs.com>

CLIENT NAME: STANTEC CONSULTING LTD

SAMPLING SITE:

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLED BY:

Parameter	Unit	Number of Samples	Peak Reading	Network Average
Ambient Sulfur Dioxide	ppbv	2	<0.2	<0.2
Ambient VOC as Hexane	ppbv	2	3.9	3.3



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 25C332424

PROJECT: Woodfibre LNG

3650 – 21 Street NE
CALGARY, ALBERTA
CANADA T2E 6V6
TEL (403)299-2000

<http://www.agatlabs.com>

CLIENT NAME: STANTEC CONSULTING LTD

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLING SITE:

SAMPLED BY:

Passive Air Quality Sampling

DATE RECEIVED: 2025-08-13

DATE REPORTED: 2025-08-21

		Site#01/ 03Jul/25,12:55 01Aug/25,13:10		Site#01/ 03Jul/25,12:55 01Aug/25,13:10	
		SAMPLE DESCRIPTION: /SO2		/TVOC	
		SAMPLE TYPE: FILTER		FILTER	
		DATE SAMPLED:			
Parameter	Unit	G / S	RDL	6964357	6964360
Ambient Sulfur Dioxide	ppbv		0.2	<0.2	-
Ambient VOC as Hexane	ppbv		0.7	-	3.9

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6964357-6964360 All samples are field blank subtracted.

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 25C332424

PROJECT: Woodfibre LNG

3650 – 21 Street NE
CALGARY, ALBERTA
CANADA T2E 6V6
TEL (403)299-2000

<http://www.agatlabs.com>

CLIENT NAME: STANTEC CONSULTING LTD

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLING SITE:

SAMPLED BY:

Passive Quality Assurance

DATE RECEIVED: 2025-08-13

DATE REPORTED: 2025-08-21

		Site#01/DUP		BLANK/		Site#01/DUP		BLANK/	
		03Jul/25,12:55		03Jul/25,12:55		03Jul/25,12:55		03Jul/25,12:55	
		01Aug/25,13:10		01Aug/25,13:10		01Aug/25,13:10		01Aug/25,13:10	
SAMPLE DESCRIPTION:		/SO2		/SO2		/TVOC		/TVOC	
SAMPLE TYPE:		FILTER		FILTER		FILTER		FILTER	
DATE SAMPLED:									
Parameter	Unit	G / S	RDL	6964358	6964359	6964361	6964362		
Ambient Sulfur Dioxide	ppbv		0.2	<0.2	<0.2	-	-		
Ambient VOC as Hexane	ppbv		0.7	-	-	2.7	<0.7		

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: STANTEC CONSULTING LTD

PROJECT: Woodfibre LNG

SAMPLING SITE:

AGAT WORK ORDER: 25C332424

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLED BY:

Air Quality Monitoring

RPT Date: Aug 21, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Passive Air Quality Sampling

Ambient Sulfur Dioxide	255	6964358	<0.2	<0.2	NA	< 0.2	104%	90%	110%	106%	80%	120%	97%	80%	120%
Ambient VOC as Hexane	188	6964361	3.9	2.7	NA	< 0.7	103%	60%	140%	119%	60%	140%			

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.
Sample spikes and duplicates are not from the same sample.

Certified By:



Method Summary

CLIENT NAME: STANTEC CONSULTING LTD

AGAT WORK ORDER: 25C332424

PROJECT: Woodfibre LNG

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Air Quality Monitoring			
Ambient Sulfur Dioxide	AQM-43-16007	Inhouse Method	ION CHROMATOGRAPH
Ambient VOC as Hexane	IHF-60-25003	Modified NIOSH-1500,1501,1003	GC/MS

Date Revised: Aug 03, 2023