Woodfibre LNG Air Quality Monitoring Station Report for March 2025

May 7, 2025

Prepared for: Woodfibre LNG General Partner Inc.

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Executive Summary

This report provides a summary of the ambient air quality monitoring data for March 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 E.1 below presents the monthly averages, ranges, and maximum values for key air contaminant concentrations measured during March 2025, along with additional information on any air quality exceedances and complaints received during this period. This report provides an overview of ambient air quality conditions and any regulatory compliance actions taken during March 2025.

Air Contaminant		Units	Monthly Average Monthly Range (Min		
PM _{2.5} (24-hour ave	erage)	µg/m³	4.8	2.8 - 7.3	
PM ₁₀ (24-hour ave	rage)	µg/m³	11.7	9.2 - 16.3	
TSP (24-hour aver	age) ^a	µg/m³	18.0	12.3 - 27.8	
NO ₂ (24-hour average)		ppb	8.3	4.5 - 12.7	
NO ₂ (1-hour average)		ppb	8.5	0.0 - 34.6	
SO ₂	Mar 7 – Apr 1, 2025	nnh		<0.2 ^b	
VOC as Hexane	Mar 3 – Apr 1, 2025	ррb		<0.7 ^b	
Number of Air Quality Exceedances Recorded			None		
Number of Complaints Received			None		

Table E.1 March 2025 Air Quality Monitoring Station Summary

Notes:

^a Monthly average concentration and range are based on valid measurements collected between March 1 and March 31, 2025.

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



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Acronyms / Abbreviations

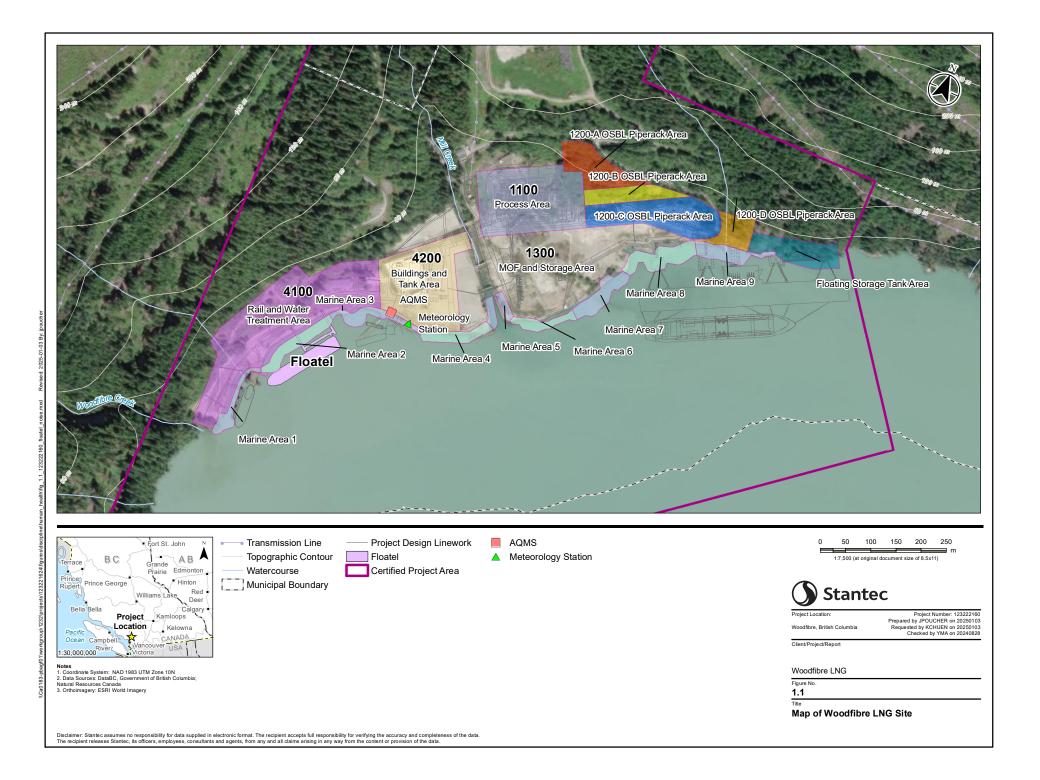
AGAT	AGAT Laboratories
AQMS	Air Quality Monitoring Station
AQO	British Columbia Air Quality Objective(s)
BC	British Columbia
BC ENV	British Columbia Ministry of Environment and Climate Change Strategy (2017–2024)
BC ENVP	British Columbia Ministry of Environment and Parks (2024–Present)
CAAQS	Canadian 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	Code born Disorida
	Sulphur Dioxide
TSP	Total Suspended Particulate
TSP US EPA	•
	Total Suspended Particulate

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). 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 March 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, 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. While the table includes all measured parameters, this report explicitly presents data for wind, air temperature, and rainfall only as these parameters are important to the FAAQMP. Pressure and relative humidity are excluded here. However, these parameters are reported in the Woodfibre LNG Export Facility Meteorology Technical Data Report – Draft that covers the monitoring period from September 25, 2023, and March 31, 2025 (Woodfibre LNG 2025).

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

 Table 2.1
 Parameters Measured at the Woodfibre LNG Site Meteorology Station

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

- Particulate matter with aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5})
- Particulate matter with aerodynamic diameter less than or equal to 10 microns (PM₁₀)
- Total suspended particulate (TSP)
- 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 2.2Summary of 2020 and 2025 Canadian Ambient Air Quality Standards for the
Contaminants of Potential Concern

Substance	Averaging	Concentration ^a					
	Period	(µg/m³) ^{b,c}		(ppbv) ^d			
		2020	2025	2020	2025		
Nitrogen Dioxide	1-hour ^e	113	79	60	42		
(NO ₂)	Annual ^f	32	23	17.0	12.0		
Sulphur Dioxide	1-hour ^g	183	170	70	65		
(SO ₂)	Annual ^h	13	10.4	5.0	4.0		
Fine Particulate	24-hour ⁱ	27	j	—	—		
Matter (PM _{2.5})	Annual ^k	8.8	i	—	—		

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.

 $^\circ~$ Standard conditions of 25°C and 101.325 kPa are used to convert from $\mu g/m^3$ 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.

⁹ 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.

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	_	

Table 2.3 British Columbia Ambient Air Quality Objectives

Notes:

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

 $^{b}\ \ \mu\text{g/m}^{3}$ 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.

3 Instrument Summary

The AQMS is currently being operated to measure the ambient concentrations of the air contaminants mentioned above. A site visit took place from March 25 to March 27, 2025. The following summarizes the key instrument activities and observations for March:

Before the March field visit, routine data QA/QC identified the following issues:

- The BAM PM₁₀ sampler exhibited flow fluctuations starting on March 10, 2025, accompanied by a flow alarm error. Attempts to resolve the issue through system restart, self-tests and a power cycle, with assistance from on-site staff, were unsuccessful.
- Daily NO₂ span checks failed on March 24 and 25, 2025.

The following maintenance activities were undertaken during the site visit between March 25 and March 27:

- <u>March 26:</u>
 - The BAM PM₁₀ pump was replaced, and a calibration was performed.
 - NO₂ analyzer fittings along the zero-air pathway were tightened to resolve elevated zero values and span check failures.
- <u>March 27:</u>
 - The BAM PM_{2.5} sampling time was adjusted from 50 minutes back to 42 minutes to meet US EPA FEM requirements for PM_{2.5} monitoring (BC ENVP 2020, US EPA 2024, and Met One Instruments 2024).
 - The malfunctioning BAM TSP unit was replaced with a spare unit, and calibration was performed.

Data Validation Notes:

- As noted in the February 2025 Monthly Report, TSP concentrations were invalid following the replacement of the TSP unit on February 11, 2025, due to consistently lower readings compared to PM_{2.5} and PM₁₀. As such, TSP data from March 1 to March 27, 2025, have been invalidated and are excluded from this report.
- Due to the BAM PM₁₀ sampler's flow instability that started on March 10, 2025, PM₁₀ data from March 10 to March 26, 2025, have been invalidated and are excluded from this report.
- Although PM_{2.5} data collected between February 11 and March 27, 2025, were collected using a non-designated method (due to an increased sample time of 50 minutes), the instrument operated without errors. Therefore, PM_{2.5} data collected during March 2025 are considered valid and have been included in this report.



 Due to failed NO₂ span checks on March 24 and 25, 2025, and maintenance performed on March 26 without an as-found verification record, NO₂ data from the last passed span check on March 23, 2025, until the successful zero/span check completed on March 26, 2025, at 19:00, have been invalidated and are excluded from this report. Missing NO₂ data on March 28, 2025, is due to remote system checks. Missing NO₂ data on March 28, 2025, is due to remote system checks.

The passive sampling of SO_2 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 3.1Summary 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 NOx (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).



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.15; 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 March 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 2024a) and Squamish Elementary (BC ENVP 2024b) 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. 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. The hourly air quality objective threshold 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).

During March 2025, the hourly $PM_{2.5}$ concentrations ranged from 0¹ to 16 µg/m³, the hourly PM_{10} concentrations ranged from 3 to 82 µg/m³ (based on sampling between March 1 and March 10, and then from March 26 and March 31), the hourly TSP concentrations ranged from 6 to 183 µg/m³ (based on sampling between March 27 and March 31, after the TSP unit was replaced), and the hourly NO₂ concentrations ranged from 0² to 34.6 ppb. The hourly results for the NO₂ concentration monitoring during this period were less than the BCAQO threshold value of 60 ppb.

Similarly, a summary of the daily (24-hour average) ambient air quality monitoring results for PM_{2.5}, PM₁₀, TSP, and NO₂ for March 2025 is presented in Table E.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 AQMS's BAM PM₁₀ sampler's pump was replaced on March 26, 2025, and the BAM TSP sampler was replaced on March 27, 2025. Calibration of both instruments

² The 42i NO-NO₂-NOx gas analyzer recording the NO₂ concentrations may occasionally report slightly negative values when the are very low. 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.



¹ The BAM 1020 instrument recording the PM_{2.5} concentrations may occasionally report slightly negative values when the are very low. Therefore, both the BCFSM (BC ENVP 2020) and the National Air Pollution Surveillance (NAPS, CCME 2019) program provide data validation criteria for PM_{2.5} measurements: values between -3 and 0 μg/m³ are adjusted to 0, while values below -3 μg/m³ are flagged as invalid. This approach has been followed for PM_{2.5} data validation program.

was performed following the replacements, as documented in Appendix C.

The 24-hour regulatory standards for PM_{10} and TSP monitoring are 50 µg/m³ and 120 µg/m³, respectively. The 24-hour BCAQO threshold value for $PM_{2.5}$ is 25 µg/m³, based on the 3-year average of the annual 98th percentile of the daily 24-hour average concentrations (CCME 2024; BC ENVP 2021).

During March 2025, the 24-hour average $PM_{2.5}$ concentrations of ranged from 2.8 to 7.3 µg/m³, 24-hour average PM_{10} concentrations of ranged from 9.2 to 16.3 µg/m³ (based on valid data collected between March 1 and March 10, and then from March 27 to March 31), 24-hour average TSP concentrations ranged from 12.3 to 27.8 µg/m³ (based on valid data collected between March 28 and March 31, before the TSP unit was replaced on March 27; the data collected on March 27 was excluded due to less than 75% data completeness), and 24-hour average NO₂ concentrations of ranged from 4.5 to 12.7 ppb.

The 24-hour average $PM_{2.5}$, PM_{10} and NO_2 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 March 2025 is insufficient to compare with the annual thresholds set for NO_2 , $PM_{2.5}$, and TSP by BCAQO and CAAQS. However, the monthly average NO_2 concentration in March 2025 is 8.3 ppb. The combined average from January to March 2025 is 7.9 ppb, less than the BCAQO and CAAQS annual threshold of 17 ppb and 12 ppb, respectively.

The March 2025 monthly average $PM_{2.5}$ concentration is 4.8 µg/m³. The combined average for January and March 2025 is 5.5 µg/m³ is less than the BCAQO and CAAQS annual threshold values of 8.0 and 8.8 µg/m³, respectively. However, this three-month average does not represent a yearly valid average for comparison with these thresholds due to the limited duration of monitoring data. Similarly, the March monthly average TSP concentration is 18.0 µg/m³ (based on valid data collected between March 28 and March 31, after the TSP unit was replaced). The combined average TSP concentration from January to March 2025 is 25.2 µg/m³, below the BCAQO annual threshold of 60 µg/m³.

A summary of the 24-hour average $PM_{2.5}$, PM_{10} , TSP and NO_2 concentrations measured during March 2025 is presented in Appendix A (Figure A.6 to Figure A.10) and Appendix B, Table B.1. The results for $PM_{2.5}$, PM_{10} , and TSP were less than the BCAQO threshold values of 25 µg/m³, 50 µg/m³, and 120 µg/m³, respectively, and no air quality exceedances were recorded for these contaminants. Additionally, no complaints were received from the Floatel residents during March 2025 that required further investigation or mitigation actions. The weekly AQMS reports are presented in Appendix D.

4.2 Passive Monitoring of SO₂ and VOC

The passive sample media for SO_2 and total VOCs were swapped on April 1, 2025. This report includes the results for samples collected for the exposure period from March 3, 2025, to April 1, 2025, for VOCs, and from March 7, 2025, to April 1, 2025, for SO₂. The laboratory analysis report is presented in .



The results for SO₂ and VOC samples show an ambient average SO₂ concentration of <0.2 ppb and an ambient average VOC concentration of <0.7 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 March 2025, with Squamish Elementary recording 0.7 ppb and Langdale Elementary recording 0.9 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.

4.3 Meteorology

A summary of the meteorology conditions during March 2025 is presented in Appendix A, Figure A.11 to Figure A.15 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 March 9, 2025, at 11:00 (10.6 m/s), and the highest 24-hour average wind speed occurred on March 9 and March 20 (2.0 m/s). Figure A.12 presents a wind rose illustrating wind direction and speed for March 2025 at the Woodfibre LNG meteorology station. The prevailing wind direction is from the northwest. 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 March 2025.

The daily ambient temperature data is presented in Figure A.14. The maximum hourly air temperature of 17.3°C was recorded on March 30, 2025, at 14:00, while the minimum hourly temperature of 0.0°C occurred on March 18, 2025, at 06:00. The monthly average temperature for March 2025 was 6.3°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 80.0 mm occurred on March 8, 2025. The total rainfall for March 2025 was 420.6 mm.

5 Summary of Ambient Air Quality Monitoring Results

The ambient air quality monitoring results for March 2025 indicate that the $PM_{2.5}$, PM_{10} , and TSP concentrations remained less than the BC Air Quality Objective threshold values. The hourly measured NO_2 concentrations were less than the BCAQO Threshold. The meteorology data, including wind speed, temperature, and rainfall, support accurate interpretation of the ambient air quality monitoring trends. No complaints from the Floatel residents were received that required further investigation or a mitigation plan during March 2025.

6 References

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Appendices

Appendix A Figures



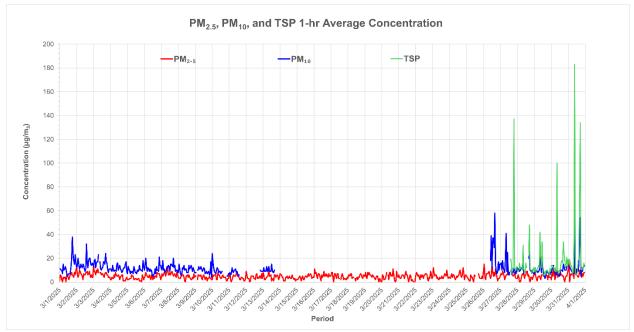
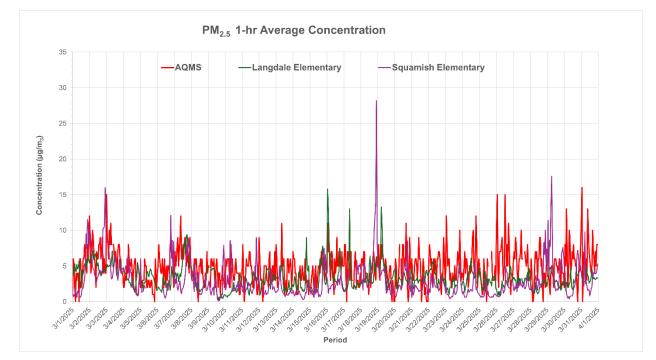
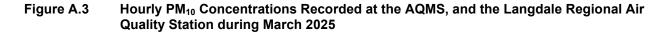


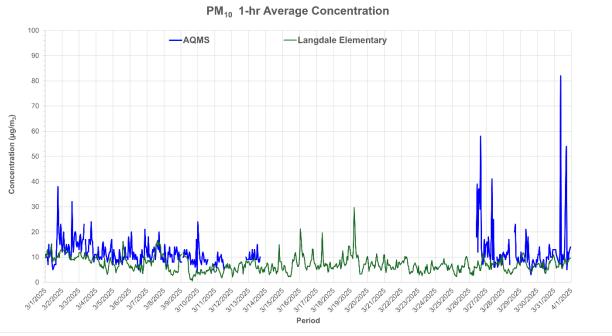
Figure A.1 Hourly PM Concentrations Recorded at the AQMS during March 2025

Note: Missing hourly data for PM_{10} between March 10 and March 26, 2025, is due to flow errors caused by a pump malfunction. TSP data collected before the TSP analyzer replacement on March 27, 2025, is invalid and is excluded from this report.

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

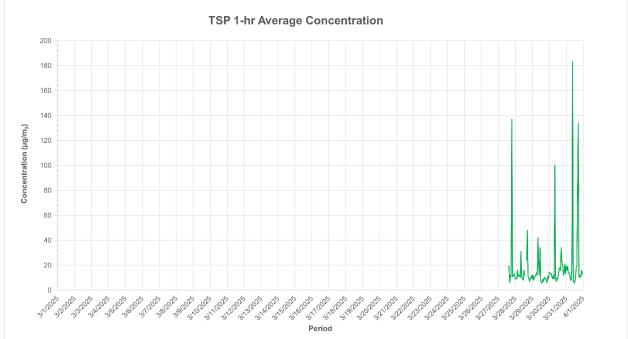






Note: Missing hourly data for PM₁₀ due between March 10 and March 26, 2025, is due to flow errors caused by a pump malfunction.

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



Note: TSP data collected before the TSP analyzer replacement on March 27, 2025, is invalid and is excluded from this report.



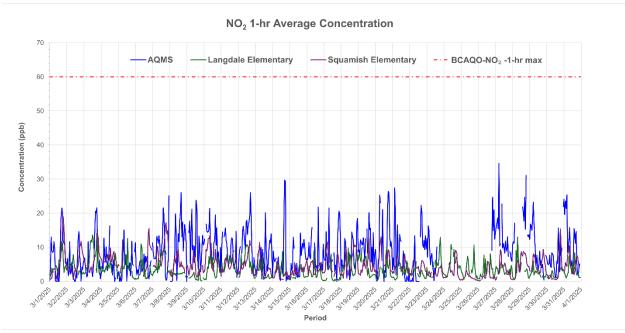
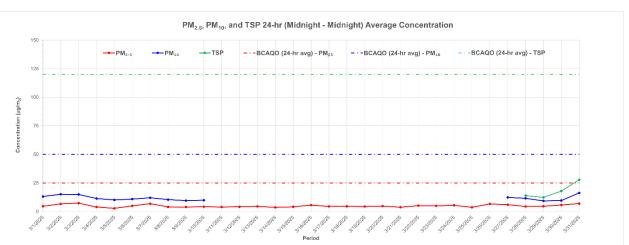


Figure A.5 Hourly NO₂ Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during March 2025

Note: NO_2 data (AQMS) from March 23 to March 26, 2025, were invalidated due to span check failures and are excluded from this report. Missing NO_2 data on March 28, 2025, is due to remote system checks.





Note: Missing PM_{10} data from March 11 and March 26, 2025, is due to flow errors caused by a pump malfunction. TSP data collected before the TSP analyzer replacement on March 27, 2025, is invalid and is excluded from this report.

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

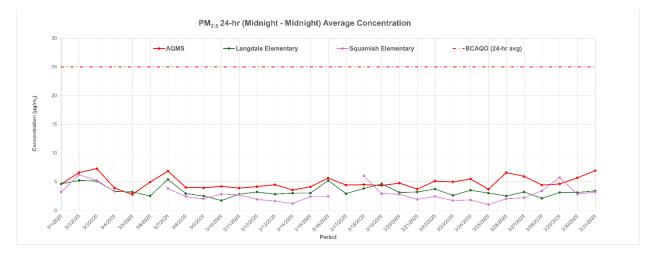
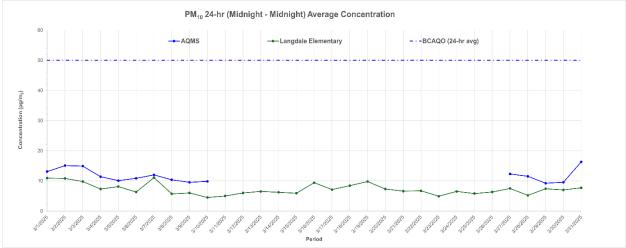


Figure A.824-Hour Average PM10 Concentrations Recorded at the AQMS, and the
Langdale Regional Air Quality Station during March 2025



Note: Missing PM10 data from March 11 and March 26, 2025, is due to flow errors caused by a pump malfunction.

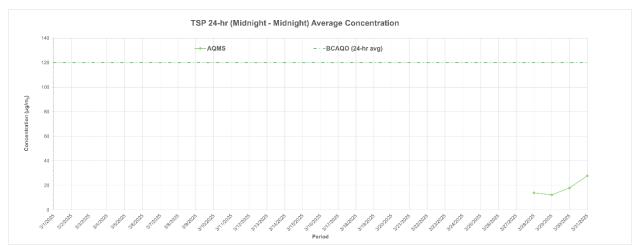
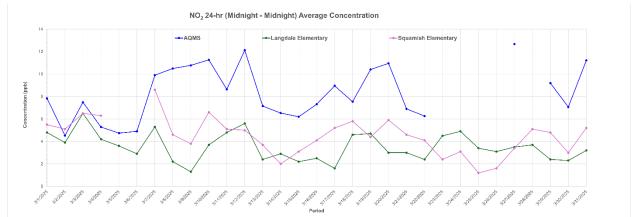


Figure A.9 24-Hour Average TSP Concentrations Recorded at the AQMS during March 2025

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



Note: NO_2 data (AQMS) from March 23 to March 26, 2025, were invalidated due to span check failures and are excluded from this report. Missing NO_2 data on March 28, 2025, is due to remote system checks.

Note: TSP data collected before the TSP analyzer replacement on March 27, 2025, is invalid and is excluded from this report.

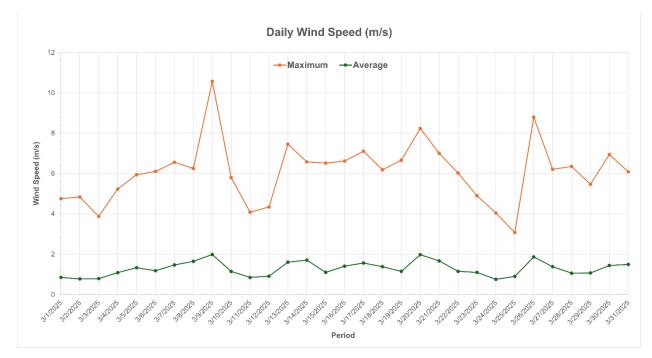
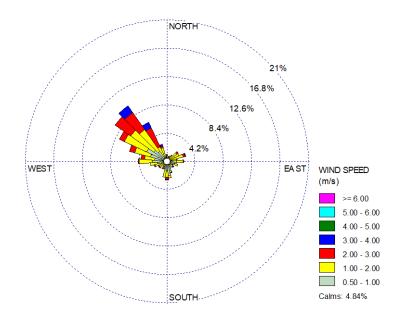
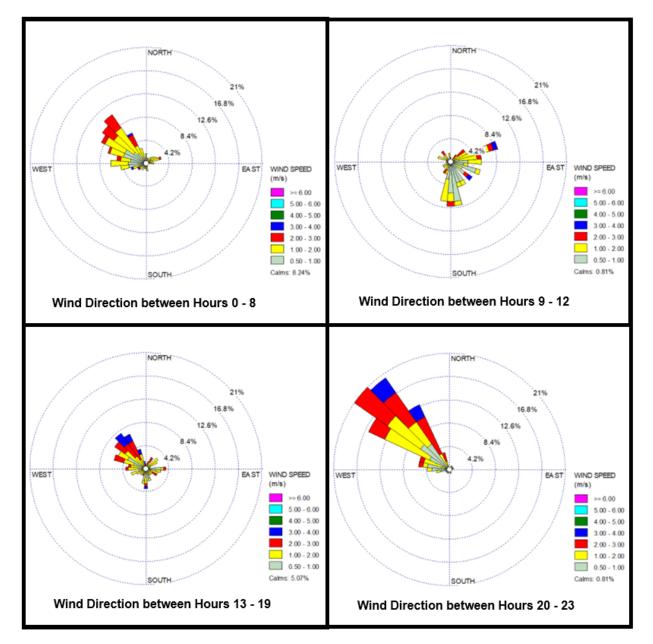


Figure A.11 Daily Average and Maximum Wind Speed Recorded at the Woodfibre LNG Meteorology Station during March 2025

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









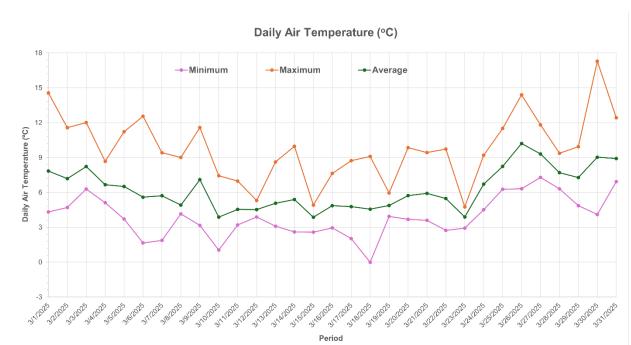
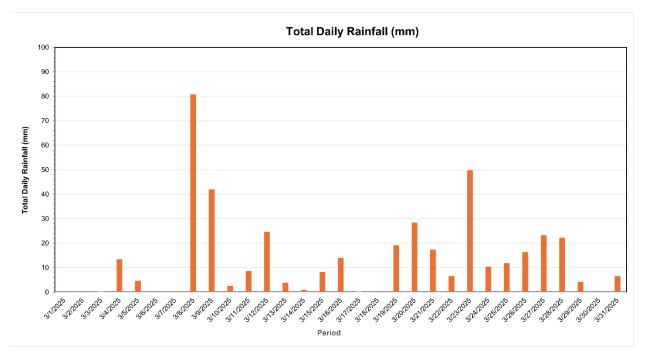


Figure A.14 Daily Average, Minimum, and Maximum Air Temperature Recorded at the Woodfibre LNG Meteorology Station during March 2025

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



Appendix B Data Tables



Date	AQMS (24-hr Ave	AQMS (24-hr Average)					
	PM _{2.5}	PM10	TSP	NO ₂	NO ₂		
	µg/m³	µg/m³	µg/m³	ppb	ppb		
3/1/2025	4.6	13.1	— ^b	7.8	21.5		
3/2/2025	6.6	15.1	_ b	4.5	14.6		
3/3/2025	7.3	14.9	_ b	7.5	21.6		
3/4/2025	3.9	11.4	_ b	5.3	16.3		
3/5/2025	2.8	10.1	_ b	4.7	15.1		
3/6/2025	4.9	10.8	_ b	4.9	11.4		
3/7/2025	6.8	12.0	_ b	9.9	25.1		
3/8/2025	4.0	10.4	_ b	10.5	26.1		
3/9/2025	3.9	9.5	_ b	10.8	23.8		
3/10/2025	4.2	9.8	_ b	11.3	21.4		
3/11/2025	3.9	_ a	_ b	8.6	15.7		
3/12/2025	4.1	_ a	_ b	12.1	26.0		
3/13/2025	4.5	_ a	_ b	7.2	20.1		
3/14/2025	3.5	_ a	_ b	6.5	29.7		
3/15/2025	4.1	_ a	_ b	6.2	14.2		
3/16/2025	5.6	_ a	_ b	7.3	21.8		
3/17/2025	4.4	_ a	_ b	9.0	21.5		
3/18/2025	4.5	_ a	_ b	7.5	18.5		
3/19/2025	4.3	_ a	_ b	10.4	20.2		
3/20/2025	4.7	_ a	_ b	11.0	26.4		
3/21/2025	3.7	_ a	_ b	6.9	27.4		
3/22/2025	5.1	_ a	_ b	6.3	22.3		
3/23/2025	5.0	_ a	_ b	_ c	_ c		
3/24/2025	5.5	_ a	_ b	_ c	_ c		
3/25/2025	3.7	_ a	_ b	_ c	- c		
3/26/2025	6.6	_ a	_ b	_ c	- c		
3/27/2025	5.9	12.3	— ^b	12.7	34.6		
3/28/2025	4.4	11.5	13.9	— c	_ c		

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

Date	AQMS (24-hr Averag	AQMS (1-hr Max)			
	PM _{2.5}	PM ₁₀	TSP	NO ₂	NO ₂
	µg/m³	µg/m³	µg/m³	ppb	ppb
3/29/2025	4.6	9.2	12.3	9.2	23.2
3/30/2025	5.7	9.5	17.9	7.1	21.9
3/31/2025	6.9	16.3	27.8	11.2	25.4

Note

^a Data unavailable due to the PM₁₀ analyzer (BAM 1020) being unable to provide valid data during this period.

^b Data unavailable due to the TSP analyzer (BAM 1020) being unable to provide valid data during this period.

^c Data unavailable due to the NO₂ gas analyzer being unable to provide valid data during this period.

Table B.2Daily Wind Speed, Air Temperature, and Rainfall Recorded at the Woodfibre LNG
Meteorology Station for March 2025

Date	Daily Wind Speed (m/s)		Daily Air Te (°C)	mperature	Daily Total Rainfall (mm)	
	Мах	Avg	Min	Мах	Avg	
3/1/2025	4.8	0.8	4.3	14.6	7.8	0.0
3/2/2025	4.8	0.8	4.7	11.6	7.2	0.0
3/3/2025	3.9	0.8	6.3	12.0	8.2	0.2
3/4/2025	5.2	1.1	5.1	8.7	6.7	13.4
3/5/2025	5.9	1.3	3.7	11.2	6.5	4.6
3/6/2025	6.1	1.2	1.7	12.6	5.6	0.0
3/7/2025	6.6	1.5	1.9	9.4	5.7	0.4
3/8/2025	6.2	1.6	4.2	9.0	4.9	80.8
3/9/2025	10.6	2.0	3.2	11.6	7.1	42.0
3/10/2025	5.8	1.1	1.0	7.4	3.9	2.6
3/11/2025	4.1	0.8	3.2	7.0	4.5	8.6
3/12/2025	4.3	0.9	3.9	5.3	4.5	24.6
3/13/2025	7.5	1.6	3.1	8.6	5.1	3.8
3/14/2025	6.6	1.7	2.6	10.0	5.4	1.0
3/15/2025	6.5	1.1	2.6	4.9	3.9	8.2
3/16/2025	6.6	1.4	2.9	7.6	4.9	14.0

Date	Daily Wind Speed (m/s)		Daily Air Temperature (°C)			Daily Total Rainfal (mm)	
	Max	Avg	Min	Мах	Avg		
3/17/2025	7.1	1.6	2.0	8.7	4.8	0.2	
3/18/2025	6.2	1.4	0.0	9.1	4.6	0.0	
3/19/2025	6.7	1.1	3.9	6.0	4.9	19.2	
3/20/2025	8.2	2.0	3.7	9.9	5.7	28.4	
3/21/2025	7.0	1.7	3.6	9.4	5.9	17.4	
3/22/2025	6.0	1.1	2.7	9.7	5.5	6.6	
3/23/2025	4.9	1.1	2.9	4.8	3.9	49.8	
3/24/2025	4.0	0.7	4.5	9.2	6.7	10.4	
3/25/2025	3.1	0.9	6.3	11.5	8.2	11.8	
3/26/2025	8.8	1.9	6.3	14.4	10.2	16.4	
3/27/2025	6.2	1.4	7.3	11.8	9.3	23.2	
3/28/2025	6.3	1.1	6.3	9.4	7.7	22.2	
3/29/2025	5.5	1.1	4.9	9.9	7.3	4.2	
3/30/2025	6.9	1.4	4.1	17.3	9.0	0.0	
3/31/2025	6.1	1.5	6.9	12.4	8.9	6.6	

Appendix C

Station Calibration and Maintenance Record



AG (aboratorie	s	TSP Audit					
Date:	March 27, 2025			Audit Reference Instruments					
Client:	Woodfibre LNG			Make/Model	Serial Number	Date Last Calibrated			
Location:	Woodfibre, BC			TriCal Flow Device	188	3/28/2024			
Technician:	Brad Moyles			CNX +3000 Fluke	2445002	3/21/2024			
Method:	Beta Attenuation Mass Monitor			RH/BP/Temp Sensor	181250070	4/3/2024			
Make:	Met One			Audit Criteria:					
Model:	BAM 1020								
Serial number:	A12386			Leak Check (<1.5 L/min):		0.30	PASS		
Parameter:	eter: TSP			Sample Flow (±4% of 16.7 L/r	nin):	16.64	PASS		
Operating Range:	perating Range: 1000 ug/m^3		Ambient Temperature (±2 °C):	0.00	PASS			
			Ambient Pressure (±10 mmHg):		-0.50	PASS			
Start Time:	9:45			Ambient RH Error (±10%):		1.04%	PASS		
Finish Time:	10:58								
				Audit Results:	ſ	PASS			
			Instr	ument Verification					
Sample Flow	Target (L/min)		Actual (Reference Standard)		Error (%)				
Leak Check	<1.5		0.30						
Flow Check		16.7		16.72		0.1%			
Ambient Temperatu	re:		°C	Ambient Pressure:		mmHg			
Ambient Temperature (Reference) 12.1			Ambient Pressure (Reference)		754				
Ambient Temperatur	re (Analyzer)		12.1	Ambient Pressure (Analyzer)		753			
As-Left Diagnostics			filter RH:	%					
				Ambient Humidity (Reference)	67	7.3		
Flow Rate:	Flow Rate:		L/min	Ambient Humidity (Analyzer)		6	68		
Ambient Temperatur	re:	12.1	°C						
Barometric Pressure:		753.5	mmHg						
Tape Pressure:		27	mmHg						
Filter Relative Humidity:		66	%						
Filter Temperature:		24.2	°C						
Smart Inlet Heater Status:		On							
Measurement Cycle Time:		50	mins						
Background Zero:		0	%						
		13:04							
PC Time: 1		13:04							
Analyzer Date: 2		27-Mar							
PC Date: 2		27-Mar							

AGAT Laboratories				PM10 Audit					
Date:	March 26, 2025			Audit Re	ts	ts			
Client:	Woodfibre LNG			Make/Model	Serial Number	Date Last Calibrated			
Location:	Woodfibre, BC			TriCal Flow Device	188	3/28/2024			
Technician:	Brad Moyles			CNX +3000 Fluke	2445002	3/21/2024			
Method:	Beta Attenuation Mass Monitor			RH/BP/Temp Sensor	181250070	Apr-24			
Make:	Met One			Audit Criteria:					
Model:	BAM 1020								
Serial number:	W22222			Leak Check (<1.5 L/min):		0.70	PASS		
Parameter:	rameter: PM10			Sample Flow (±4% of 16.7 L/n	nin):	16.74	PASS		
Operating Range:	Dperating Range: 1000 ug/m ³			Ambient Temperature (±2 °C)	:	-1.50	PASS		
				• • •	Ambient Pressure (±10 mmHg):		PASS		
Start Time:	9:15	9:15		Ambient RH Error (±10%):			PASS		
Finish Time:	9:50								
				Audit Results:	F	PASS			
			Instru	ument Verification					
Sample Flow	Target (L/min)		Actual (Reference Standard)		Error (%)				
Leak Check	<1.5		0.70						
Flow Check		16.7		16.74		0.2%			
Ambient Temperatu	re:		°C	Ambient Pressure:		mmHg			
Ambient Temperatur	Ambient Temperature (Reference)			Ambient Pressure (Reference)		757			
Ambient Temperatur	Ambient Temperature (Analyzer)		14	Ambient Pressure (Analyzer)		756			
As	-Left Diag	nostics		filter RH:		0	6		
				Ambient Humidity (Reference)	55	5.1		
Flow Rate:	Flow Rate:		L/min	Ambient Humidity (Analyzer)		51			
Ambient Temperature:		15.5	°C						
Barometric Pressure:		757	mmHg						
Tape Pressure:		27.1	mmHg						
Filter Relative Humidity:		38	%						
Filter Temperature:		27	°C						
Smart Inlet Heater Status:		ON							
Measurement Cycle Time:		42	mins						
Background Zero:		0.0	%						
		11:49							
		11:48							
Analyzer Date:		26-Mar							
PC Date:		26-Mar		_					

		Dries PM ₁₀ Maintenance Log						
TO BE	COMPLETED/UI	PDATED MONTH	ILY					
Maintenance Item	Frequency Due	Completed (Y/N)	Date Last Completed	Next Service Date				
Nozzle and vane cleaning	2 Months	Y	26/03/2025	30/04/2025				
Leak check	2 Months	Y	26/03/2025	30/04/2025				
Flow system check	2 Months	Y	26/03/2025	30/04/2025				
Clean capstan shaft and pinch roller	2 Months	Y	26/03/2025	30/04/2025				
Thoroughly clean inlet and particle trap	2 Months	Y	26/03/2025	30/04/2025				
Download and save digital data and error log	2 Months	Y	26/03/2025	30/04/2025				
Compare digital data to analog data	2 Months	Y	26/03/2025	30/04/2025				
Check and set clock	2 Months	Y	26/03/2025	30/04/2025				
Replace filter tape	2 Months	Y	26/03/2025	30/04/2025				
Run SELF TEST	2 Months	Y	26/03/2025	30/04/2025				
Download and verify settings file	2 Months	Y	26/03/2025	30/04/2025				
Flow system audit and calibration	2 Months	Y	26/03/2025	30/04/2025				
Ambient pressure, temperature and RH audit and calibration	2 Months	Y	26/03/2025	30/04/2025				
Replace or clean pump muffler	12 Months	N						
Test smart heater	24 Months	N						
Perform 72-hour BKGD test	12 Months	N						
Clean internal debris filter	12 Months	N						
Remove and check membrane span foil	12 Months	Y						
Beta detector count rate and dark	12 Manth :	N						
count test	12 Months	N						
Clean vertical inlet tube	12 Months	N						
Test analog DAC output if necessary	12 Months	N						
Replace lithium battery if necessary	12 Months	N						
Rebuild vacuum pump	24 Months	N						
Replace nozzle o-ring	24 Months	N						
Preplace pump tubing if necessary	24 Months	Ν						

	25	TSP Maintenance Log						
TO BE	COMPLETED/UP	DATED MONTH	ILY					
Maintenance Item	Frequency Due	Completed (Y/N)	Date Last Completed	Next Service Date				
Nozzle and vane cleaning	2 Months	Y	27/03/2025	30/04/2025				
Leak check	2 Months	Y	27/03/2025	30/04/2025				
Flow system check	2 Months	Y	27/03/2025	30/04/2025				
Clean capstan shaft and pinch roller	2 Months	Y	27/03/2025	30/04/2025				
Thoroughly clean inlet	2 Months	Y	27/03/2025	30/04/2025				
Download and save digital data and error log	2 Months	Y	27/03/2025	30/04/2025				
Compare digital data to analog data	2 Months	Y	27/03/2025	30/04/2025				
Check and set clock	2 Months	Y	27/03/2025	30/04/2025				
Replace filter tape	2 Months	N	27/03/2025	30/04/2025				
Run SELF TEST	2 Months	Y	27/03/2025	30/04/2025				
Download and verify settings file	2 Months	Y	27/03/2025	30/04/2025				
Flow system audit and calibration	2 Months	Y	27/03/2025	30/04/2025				
Ambient pressure, temperature and RH audit and calibration	2 Months	Y	27/03/2025	30/04/2025				
Replace or clean pump muffler	12 Months	N						
Test smart heater	24 Months	N						
Perform 72-hour BKGD test	12 Months	N						
Clean internal debris filter	12 Months	N						
Remove and check membrane span foil	12 Months	N						
Beta detector count rate and dark count test	12 Months	N						
Clean vertical inlet tube	12 Months	N						
Test analog DAC output if necessary	12 Months	N						
Replace lithium battery if necessary	12 Months	N						
Rebuild vacuum pump	24 Months	N						
Replace nozzle o-ring	24 Months	N						
Replace pump tubing if necessary	24 Months	N						

		oratories		el	.og Repo	ort
Station	WLNG, Woodfibre, B	С	Project #			
Date	March 26-27, 2025	Time In	,	١	Time Out	١
Wea Cond				nician	BM	

Replaced TSP unit with spare because readings seem low (Stantec recommendation after evaluating trends over time)

Replaced pump for PM10, reset tape latch - no more alarms

Pressure check, passed

Flow calibration, passed for TSP, PM10 and PM2.5

Ambient temperature check, passed

Shelter temperature check, passed

RH check, passed

BP check, passed

Tightened fittings along the NO2 zero pathway; CD Nova recommends a smaller capillary after the T where zero Teflon line joins the span line. Zero came in under 2 ppb following tightening the lines

Appendix D Weekly AQMS Reports



Reporting Period

This AQMS Weekly report covers the period from February 24 to March 02, 2025.

Objective

This report summarizes the air quality monitoring data for the week of February 24 to March 02, 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

_	PM _{2.5} (µg/m ³) ¹		P	PM ₁₀ (μg/m ³)			TSP ($\mu g/m^3$) ²			NO ₂ (ppb)		
Date	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
24 Feb	3	14	6.0	8	111	21.5	-	-	-	1.9	26.0	12.7
25 Feb	1	6	3.8	5	29	10.8	-	-	-	0.0	37.5	11.3
26 Feb	0	10	4.5	6	64	15.7	-	-	-	0.0	17.9	7.8
27 Feb	1	9	5.0	5	16	11.3	-	-	-	1.1	22.1	7.2
28 Feb	0	6	3.0	5	47	11.8	-	-	-	0.0	25.7	5.5
01 Mar	0	10	4.6	5	38	13.1	-	-	-	0.0	21.5	7.8
02 Mar	2	12	6.6	9	32	15.1	-	-	-	0.0	14.6	4.5

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.

• PM_{10} : 50 µg/m³ - Achievement based on the daily (24-hr) average.

• TSP: $120 \,\mu g/m^3$ - 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 indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

As of February 11, the BAM $PM_{2.5}$ instrument's sampling time was changed from 42 minutes to 50 minutes. Since then, it has been operating as a non-designated nethod for $PM_{2.5}$ monitoring.

Data unavailable due to the TSP BAM sampler being unable to collect valid data during this period.

Table 2: Weekly Averages Summary – PM2.5, PM10, TSP and NO2

Tuble 21 Tre	chij nive	rugebb	ummun	j 1112.3, 11110, 101 unu 1102						
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}	$\mu g/m^3$	0	14	4.8	16.7 (24-hr avg)	0	0			
PM ₁₀	$\mu g/m^3$	5	111	14.2	33.3 (24-hr avg)	0	0			
TSP ¹	$\mu g/m^3$	-	-	-	80 (24-hr avg)	-	-			
NO_2	ppb	0.0	37.5	8.1	40 (1-hr avg max)	0	0			

Note: ¹ Data is unavailable due to the TSP BAM sampler being unable to collect valid data during this period.

Date	Wind S	peed (m/s)	Ambi	ient Temperat	Total Precipitation	
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
24 Feb	6.0	1.5	5.6	10.3	7.4	9.2
25 Feb	4.6	1.0	5.1	11.0	7.1	15.0
26 Feb	7.5	1.3	4.7	12.7	7.8	0.8
27 Feb	4.0	0.8	4.2	8.6	6.4	0.0
28 Feb	7.4	1.1	6.4	15.1	9.0	0.0
01 Mar	4.8	0.8	4.3	14.6	7.8	0.0



02 Mar 4.8 0.8 4.7	116 70		
02 Mar 4.0 0.0 4.7	11.0 7.2	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
24-Feb to 02-Mar	No	No	No	No	No sample swap or lab analysis was performed during this period.

Note: This table mostly contains "No" entries because SO_2 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 February 7, 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 Feb 24 to Mar 02, construction activities include, breaking rock in the 1100 sump, placing Type D in Area 1300, M02 foundation and east pond, loading out sifted blast rock from the Area 1100 and hauling to the Kode crusher, Kode stockpile management, offloading of the Type D from barge and haul to Area 4100, stockpiling at the batch plant, piping excavation for FIWP-002, excavation at the east pond and M01 foundation, placing and grading bedding sand in the utility trench in the 1200C area, washing car tops, site cleanup and fueling ongoing.

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 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 successfully collected air quality data throughout the reporting period, except for the TSP BAM sampler, which has not collected valid data since February 11, 2025. As of February 11, the BAM $PM_{2.5}$ instrument's sampling time was changed from 42 minutes to 50 minutes. Since then, it has been operating as a non-designated method for $PM_{2.5}$ monitoring. A site visit is planned for March 25 to March 28 to swap the malfunctioning TSP unit with the spare BAM TSP unit and adjust the BAM $PM_{2.5}$ sampling time from 50 minutes to 42 minutes to meet the United States Environmental Protection Agency (US EPA) Federal Equivalent Method (FEM) requirements for $PM_{2.5}$ monitoring. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.

Reporting Period

This AQMS Weekly report covers the period from March 03 to March 09, 2025.

Objective

This report summarizes the air quality monitoring data for the week of March 03 to March 09, 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

	PM _{2.5} (µg/m ³) ¹		PM ₁₀ (µg/m ³)			TSP $(\mu g/m^3)^2$			NO ₂ (ppb)			
Date	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
03 Mar	4	15	7.3	8	24	14.9	-	-	-	0.8	21.6	7.5
04 Mar	1	8	3.9	8	17	11.4	-	-	-	0.0	16.3	5.3
05 Mar	0	6	2.8	7	18	10.1	-	-	-	0.0	15.1	4.7
06 Mar	2	8	4.9	5	21	10.8	-	-	-	0.7	11.4	4.9
07 Mar	4	12	6.8	8	20	12.0	-	-	-	0.3	25.1	9.9
08 Mar	0	7	4.0	6	15	10.4	-	-	-	0.0	26.1	10.5
09 Mar	1	6	3.9	4	17	9.5	-	-	-	0.0	23.8	10.8

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

 $\bullet \qquad PM_{2.5}{:}\ 25\ \mu\text{g/m}^3\ -\ Achievement\ based\ on\ annual\ 98th\ percentile\ of\ daily\ average,\ averaged\ over\ one\ year.$

• PM₁₀: 50 µg/m³ - Achievement based on the daily (24-hr) average.

• TSP: $120 \ \mu g/m^3$ - 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 indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values. ¹ As of February 11, the BAM PM_{2.5} instrument's sampling time was changed from 42 minutes to 50 minutes. Since then, it has been operating as a non-designated

method for PM_{2.5} monitoring.

Data is unavailable due to the TSP BAM sampler being unable to collect valid data during this period.

Table 2: Weekly Averages Summary – PM2.5, 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}	$\mu g/m^3$	0	15	4.8	16.7 (24-hr avg)	0	0
PM10	$\mu g/m^3$	4	24	11.3	33.3 (24-hr avg)	0	0
TSP ¹	$\mu g/m^3$	-	-	-	80 (24-hr avg)	-	-
NO_2	ppb	0.0	26.1	7.7	40 (1-hr avg max)	0	0

Note: ¹ Data is unavailable due to the TSP BAM sampler being unable to collect valid data during this period.

Date	Wind S	peed (m/s)	Ambi	ent Temperat	ture (°C)	Total Precipitation
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
03 Mar	3.9	0.8	6.3	12.0	8.2	0.2
04 Mar	5.2	1.1	5.1	8.7	6.7	13.4
05 Mar	5.9	1.3	3.7	11.2	6.5	4.6
06 Mar	6.1	1.2	1.7	12.6	5.6	0.0
07 Mar	6.6	1.5	1.9	9.4	5.7	0.4
08 Mar	6.2	1.6	4.2	9.0	4.9	80.8



09 Mar 10.6 2.0 3.2 11.6 7.1 42.0							
	09 Mar	10.6	2.0	32	11.6	7.1	42.0

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
03-Mar to 09-Mar	YES	YES	YES	Yes	Exposure Period (Jan 7- Feb 7): SO ₂ =0.2 ppb & VOC= 8.6 ppb.

Note: SO_2 and VOC passive samples are swapped on a monthly basis. Passive samples were swapped on March 3, 2025, and shipped to AGAT Labs. The laboratory analysis report for the exposure period from January 7 to February 7 was received on March 6, 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 Mar 03 to Mar 09, construction activities include, breaking rock and hammering in the 1100 sump, Type D stockpile management, offloading the Agg barge via the TRI VC, material stockpiled in the 1300, backfilling in north of Batch plant, Pomerleau area, 1100 and MOF area.

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 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 successfully collected air quality data throughout the reporting period, except for the TSP BAM sampler, which has not collected valid data since February 11, 2025. As of February 11, the BAM PM_{2.5} instrument's sampling time was changed from 42 minutes to 50 minutes. Since then, it has been operating as a non-designated method for PM_{2.5} monitoring. A site visit is planned for March 25 to March 28 to swap the malfunctioning TSP unit with the spare BAM TSP unit and adjust the BAM PM_{2.5} sampling time from 50 minutes to 42 minutes to meet the United States Environmental Protection Agency (US EPA) Federal Equivalent Method (FEM) requirements for PM_{2.5} monitoring. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.

Reporting Period

This AQMS Weekly report covers the period from March 10 to March 16, 2025.

Objective

This report summarizes the air quality monitoring data for the week of March 10 to March 16, 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 th	ne Past 7 Days

	PM ₂	PM _{2.5} (µg/m ³) ¹			$PM_{10} (\mu g/m^3)^2$			SP (µg/m	1 ³) ³	NO ₂ (ppb)		
Date	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
10 Mar	1	8	4.2	5	24	9.8	_	_	_	2.6	21.4	11.3
11 Mar	0	8	3.9	_	_	_	_	-	_	1.2	15.7	8.6
12 Mar	0	9	4.1	_	_	_	_	-	_	1.8	26.0	12.1
13 Mar	1	11	4.5	_	-	_	_	-	_	0.7	20.1	7.2
14 Mar	1	7	3.5	_	-	_	_	-	_	0.1	29.7	6.5
15 Mar	1	7	4.1	_	_	_	_	-	_	0.8	14.2	6.2
16 Mar	1	11	5.6	_	_	_	_	-	_	2.6	21.8	7.3

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: $120 \ \mu g/m^3$ - 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 indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO2 exceed the respective threshold values.

As of February 11, the BAM $PM_{2.5}$ instrument's sampling time was changed from 42 minutes to 50 minutes. Since then, it has been operating as a non-designated nethod for $PM_{2.5}$ monitoring.

Data is unavailable due to the PM_{10} BAM sampler's flow controller failure.

Data is unavailable due to the TSP BAM sampler being unable to collect valid data during this period.

Table 2: Weekly Averages Summary – PM2.5, PM10, TSP and NO2

D - 11 - 4 4	•4	1-hr	1-hr	Weekly Trigger Limits (2/3 of the AOO)		Time Above Trigger	Time Above AQO
Pollutant	units	Min	Max	average	the AQO)	Limit (Days)	(Days)
PM _{2.5}	$\mu g/m^3$	0	11	4.3	16.7 (24-hr avg)	0	0
PM_{10}^{-1}	$\mu g/m^3$	5	24	9.8	33.3 (24-hr avg)	0	0
TSP ²	$\mu g/m^3$	I	—	_	80 (24-hr avg)	_	_
NO_2	ppb	0.1	29.7	8.5	40 (1-hr avg max)	0	0

Note:

The PM_{10} weekly average is based on valid data collected from a single day, March 10, 2025.

² Data is unavailable due to the TSP BAM sampler being unable to collect valid data during this period.

Date	Wind S	peed (m/s)	Ambi	ent Temperat	ture (°C)	Total Precipitation		
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)		
10 Mar	5.8	1.1	1.0	7.4	3.9	2.6		
11 Mar	4.1	0.8	3.2	7.0	4.5	8.6		
12 Mar	4.3	0.9	3.9	5.3	4.5	24.6		
13 Mar	7.5	1.6	3.1	8.6	5.1	3.8		



14 Mar	6.6	1.7	2.6	10.0	5.4	1.0
15 Mar	6.5	1.1	2.6	4.9	3.9	8.2
16 Mar	6.6	1.4	2.9	7.6	4.9	14.0

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
10-Mar to 16-Mar	No	No	No	No	No sample swap or lab analysis was performed during this period.

Note: This table mostly contains "No" entries because SO_2 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 March 3, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details

Dust Observation Report Summary:

Summary of Daily Reports and Action Taken

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

Work Activities Details:

According to the Daily Construction Reports from March 10 to March 16, construction activities include, breaking rock in the 1100, 1200D and 1200C flare stack area, backfilling at 1200D, MOF, 1300 and M09 area, hauling blast rock to Kode Crusher, slope cleaning near Pomerleau, Staging the sump pieces for M09 sump, grading and placing GSB in the 1300 MOF area, and bailing the blast rock in the hill cut to allow access into the 1200A.

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 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, the TSP BAM sampler has been unable to collect valid data since February 11, 2025, due to a malfunction. Due to a flow controller failure, the BAM PM₁₀ sampler has not been able to collect valid data since March 11, 2025. As of February 11, the BAM PM_{2.5} instrument's sampling time was changed from 42 minutes to 50 minutes. Since then, it has been operating as a non-designated method for PM_{2.5} monitoring. A site visit is planned for March 25 to March 28 to swap the malfunctioning TSP unit with the spare BAM TSP unit, troubleshoot the BAM PM₁₀ flow controller, and adjust the BAM PM_{2.5} sampling time from 50 minutes to 42 minutes to meet the United States Environmental Protection Agency (US EPA) Federal Equivalent Method (FEM) requirements for PM2.5 monitoring. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.

Reporting Period

This AQMS Weekly report covers the period from March 17 to March 23, 2025.

Objective

This report summarizes the air quality monitoring data for the week of March 17 to March 23, 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

-	PM ₂	PM _{2.5} (µg/m ³) ¹			$PM_{10} (\mu g/m^3)^2$			SP (µg/m	1 ³) ³	Ν	NO ₂ (ppb) ⁴		
Date	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	
17 Mar	0	8	4.4	1	_		_	_	_	0.0	21.5	9.0	
18 Mar	1	7	4.5		_		_	_	_	0.5	18.5	7.5	
19 Mar	0	8	4.3	_	_	_	_	_	_	3.9	20.2	10.4	
20 Mar	0	11	4.7	-	-	_	_	-	-	0.0	26.4	11.0	
21 Mar	0	9	3.7	-	-	_	_	-	-	0.0	27.4	6.9	
22 Mar	1	9	5.1	_	_	_	_	_	_	0.0	22.3	6.3	
23 Mar	2	12	5.0	_	_	_	_	_	_	_	_	_	

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

 $\bullet \qquad PM_{2.5}{:}\ 25\ \mu\text{g/m}^3\ -\ Achievement\ based\ on\ annual\ 98th\ percentile\ of\ daily\ average,\ averaged\ over\ one\ year.$

• PM_{10} : 50 µg/m³ - Achievement based on the daily (24-hr) average.

• TSP: $120 \,\mu g/m^3$ - 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 indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO2 exceed the respective threshold values.

As of February 11, the BAM $PM_{2.5}$ instrument's sampling time was changed from 42 minutes to 50 minutes. Since then, it has been operating as a non-designated nethod for $PM_{2.5}$ monitoring.

Data is unavailable due to the PM₁₀ BAM sampler's flow controller failure.

Data is unavailable due to the TSP BAM sampler being unable to collect valid data during this period.

Data is unavailable for March 23 due to the NO2 gas analyzer being unable to collect valid measurements, with less than 75% valid data recorded for the day.

Table 2: Weekly Averages Summary – PM2.5, PM10, TSP and NO2

		1-hr	1-hr	Weekly	Trigger Limits (2/3 of	Time Above Trigger	Time Above AQO
Pollutant	units	Min	Max	average	the AQO)	Limit (Days)	(Days)
PM _{2.5}	$\mu g/m^3$	0	12	4.5	16.7 (24-hr avg)	0	0
PM ₁₀ ¹	$\mu g/m^3$	_	_	_	33.3 (24-hr avg)	_	_
TSP ²	$\mu g/m^3$	_	_	-	80 (24-hr avg)	_	_
NO_2	ppb	0.0	27.4	8.5	40 (1-hr avg max)	0	0

Note:

¹ Data is unavailable due to the PM10 BAM sampler's flow controller failure.

² Data is unavailable due to the TSP BAM sampler being unable to collect valid data during this period.

Date	Wind Sj	peed (m/s)	Ambi	ent Temperat	Total Precipitation	
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
17 Mar	7.1	1.6	2.0	8.7	4.8	0.2
18 Mar	6.2	1.4	0.0	9.1	4.6	0.0
19 Mar	6.7	1.1	3.9	6.0	4.9	19.2



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20 Mar	8.2	2.0	3.7	9.9	5.7	28.4
21 Mar	7.0	1.7	3.6	9.4	5.9	17.4
22 Mar	6.0	1.1	2.7	9.7	5.5	6.6
23 Mar	4.9	1.1	2.9	4.8	3.9	49.8

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
17-Mar to 23-Mar	No	No	No	YES	Exposure Period (Feb 7 – Mar 3): SO2=<0.2 ppb & VOC= <0.7 ppb

Note: SO₂ and VOC passive samples are swapped on a monthly basis. Passive samples were swapped on March 3, 2025, and shipped to AGAT Labs. The laboratory analysis report for the exposure period from February 7 to March 3 was received on March 21, 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:

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According to the Daily Construction Reports from March 17 to March 23, construction activities include breaking rock at Area 1100 and flare stack areas, blasting material at Area 1100, 1200 and 4200, backfilling at Area 1100, 1300 and MOF, hauling blast rock from the 1100 and 1200 to Kode, and to 4100 stockpile, and Road maintenance around site.

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 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, the TSP BAM sampler has been unable to collect valid data since February 11, 2025, due to a malfunction. Due to a flow controller failure, the BAM PM_{10} sampler has not been able to collect valid data since March 11, 2025. As of February 11, the BAM PM_{2.5} instrument's sampling time was changed from 42 minutes to 50 minutes for unknown reasons. Since then, it has been operating as a non-designated method for PM2.5 monitoring. A site visit is planned for March 25 to March 28 to swap the malfunctioning TSP unit with the spare BAM TSP unit, troubleshoot the BAM PM₁₀ pump/flow controller, and adjust the BAM PM_{2.5} sampling time from 50 minutes to 42 minutes to meet the United States Environmental Protection Agency (US EPA) Federal Equivalent Method (FEM) requirements for $PM_{2.5}$ monitoring. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.

Reporting Period

This AQMS Weekly report covers the period from March 24 to March 30, 2025.

Objective

This report summarizes the air quality monitoring data for the week of March 24 to March 30, 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.

	PM _{2.5} (µg/m ³) ¹		PN	PM ₁₀ (µg/m ³) ²		TSP $(\mu g/m^3)^3$			Ν	NO ₂ (ppb) ⁴		
Date	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
24 Mar	2	12	5.5	-	_	_	-	_	_	_	_	_
25 Mar	0	7	3.6		_	_		_				—
26 Mar	1	15	6.6	_	_	_	_	_	_	_	_	_
27 Mar	2	10	5.9	6	41	12.3	-	-	_	5.9	34.6	12.7
28 Mar	0	9	4.4	7	23	11.5	7	48	13.9	_	_	_
29 Mar	1	8	4.6	3	21	9.2	6	42	12.3	0.4	23.2	9.2
30 Mar	0	13	5.7	5	15	9.5	7	100	17.9	1.0	21.9	7.1

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

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: $120 \,\mu g/m^3$ - 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 indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO2 exceed the respective threshold values.

As of February 11, the BAM PM_{2.5} instrument's sampling time was changed from 42 minutes to 50 minutes. It operated as a non-designated method for PM_{2.5} nonitoring until corrected on March 27.

² Data is unavailable from March 24 to March 26 due to the PM₁₀ BAM sampler's flow controller failure. Maintenance and calibration were completed on March 26.

TSP data is unavailable from March 24 to March 27. The unit was swapped and calibrated on March 27.

⁴ NO₂ valid data is unavailable from March 23–26 due to failed span checks, and for March 28 due to maintenance. Zero and span pan check was passed after maintenance on March 26 at 19:00.

Table 2: Weekly Averages Summary – PM2.5, 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}	$\mu g/m^3$	0	15	5.2	16.7 (24-hr avg)	0	0
PM_{10}^{-1}	$\mu g/m^3$	3	41	10.6	33.3 (24-hr avg)	0	0
TSP ²	$\mu g/m^3$	6	100	14.7	80 (24-hr avg)	0	0
NO ₂ ³	ppb	0.4	34.6	9.6	40 (1-hr avg max)	0	0

Note:

The PM_{10} weekly average is based on valid data collected from March 27 to March 30, 2025.

The TSP weekly average is based on valid data collected from March 28 to March 30, 2025.

The NO₂ weekly average is based on valid data collected on March 27, March 20 and March 30, 2025.

Date	Wind S	Speed (m/s) Ambient Temperature (°C)				Total Precipitation
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
24 Mar	4.0	0.7	4.5	9.2	6.7	10.4



25 Mar	3.1	0.9	6.3	11.5	8.2	11.8
26 Mar	8.8	1.9	6.3	14.4	10.2	16.4
27 Mar	6.2	1.4	7.3	11.8	9.3	23.2
28 Mar	6.3	1.1	6.3	9.4	7.7	22.2
29 Mar	5.5	1.1	4.9	9.9	7.3	4.2
30 Mar	6.9	1.4	4.1	17.3	9.0	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
24-Mar to 30-Mar	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 March 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 March 24 to March 30, construction activities include, breaking rock at Area 1100 and MOF Sump, hauling rock from Area 1100, 1200 and 4200 to Kode and to stockpile in 4100, removing slop material from the Kode to the surge pond, offloading the Agg barge at Area 1300, placing rocks in the 4200 Area, grading and clean up at MOF.

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 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, maintenance activities were conducted during the week of March 24 to March 30 to restore the full functionality of the monitoring equipment. The TSP BAM unit was swapped and calibrated on March 27, and the BAM PM₁₀ pump was replaced and calibrated on March 26. The BAM PM_{2.5} sampling time, previously changed from 42 to 50 minutes, was corrected on March 27 to meet US EPA FEM requirements. The NO₂ analyzer failed span checks on March 24 and 25 and underwent maintenance on March 26, with valid data collection resuming thereafter. NO₂ data was also unavailable on March 28 due to additional maintenance. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.

Reporting Period

This AQMS Weekly report covers the period from March 31 to April 06, 2025.

Objective

This report summarizes the air quality monitoring data for the week of March 31 to April 06, 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

	PM _{2.5} (µg/m ³)			PM ₁₀ (µg/m ³)			TSP (µg/m ³)			NO ₂ (ppb)		
Date	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
31 Mar	0	16	6.9	5	82	16.3	6	183	27.8	1.7	25.4	11.2
01 Apr	0	14	6.2	8	46	15.3	9	82	21.6	2.5	38.9	7.9
02 Apr	3	17	6.9	6	91	19.3	11	185	33.8	0.0	35.3	7.9
03 Apr	0	12	5.4	5	15	11.0	8	36	14.7	1.7	13.7	5.9
04 Apr	4	12	7.0	7	20	12.2	9	34	17.8	3.4	10.7	6.5
05 Apr	2	19	6.4	7	57	17.1	11	154	36.5	1.5	16.0	7.4
06 Apr	1	15	6.0	6	29	14.4	8	74	20.1	6.4	37.2	14.0

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

• $PM_{2.5}$: 25 μ g/m³ - Achievement based on annual 98th percentile of daily average, averaged over one year.

• PM_{10} : 50 µg/m³ - Achievement based on the daily (24-hr) average.

• TSP: 120 μ g/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 indicates 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 – PM2.5, PM10, TSP and NO2

	emy me	a ages b	ummun						
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	0	19	6.4	16.7 (24-hr avg)	0	0		
PM10	$\mu g/m^3$	5	91	15.1	33.3 (24-hr avg)	0	0		
TSP	$\mu g/m^3$	6	185	24.6	80 (24-hr avg)	0	0		
NO_2	ppb	0.0	38.9	8.7	40 (1-hr avg max)	0	0		

Date	Wind S	peed (m/s)	Ambi	ent Tempera	ture (°C)	Total Precipitation
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
31 Mar	6.1	1.5	6.9	12.4	8.9	6.6
01 Apr	6.7	1.6	4.8	12.0	8.6	0.2
02 Apr	6.1	1.5	5.6	11.3	7.9	7.4
03 Apr	6.0	1.3	4.5	14.9	8.4	0.0
04 Apr	5.7	1.0	4.0	14.9	8.9	0.0
05 Apr	8.2	1.1	5.0	18.8	10.9	0.0
06 Apr	3.8	0.9	7.7	11.3	9.6	40.6



Table 4: Passive SO₂ and VOC Sampling

()	wapped Yes/No)	(COC) Submitted (Yes/No)	to AGAT Lab (Yes/No)	Received (Yes/No)	Comments
31-Mar					
to	Yes	Yes	Yes	No	NA
06-Apr					

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 March 31 to April 06, construction activities include, breaking oversized rock and excavating a utility trench in Area 1100, excavating a test pit in Area 1200D, sifting and hauling rock to Surge Road, hauling rock to the crusher from Areas 1100 and 1200, backfilling in Areas 1100 and 1200, stockpiling Type D material, performing grade work at the North Sump, conducting backfill and grade work at the Admin Building, removing blast rock from Area 1200, and placing Type A and Type D material in Area 1100.

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 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, and no further investigation was required.

Appendix E

Passive SO₂ and VOC Samples – Lab Analysis Report



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

http://www.agatlabs.com

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: 25C267863 AIR QUALITY MONITORING REVIEWED BY: Carmen Andrei, AQM Lab Supervisor DATE REPORTED: Apr 16, 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

<u>25</u>	

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 (V1)

Member of: A	ssociation of Professional Engineers and Geoscientists of Alberta
(/	APEGA)
Ý	Vestern Enviro-Agricultural Laboratory Association (WEALA)
E	nvironmental Services Association of Alberta (ESAA)

Page 1 of 6

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.



Air Quality Summary

AGAT WORK ORDER: 25C267863 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	<0.7	<0.7



Certificate of Analysis

AGAT WORK ORDER: 25C267863 PROJECT: Woodfibre LNG

CLIENT NAME: STANTEC CONSULTING LTD

SAMPLING SITE:

CANADA T2E 6V6 TEL (403)299-2000 http://www.agatlabs.com

3650 - 21 Street NE

CALGARY, ALBERTA

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLED BY:

				1 433		yoamping
DATE RECEIVED: 2025-04-0	7					DATE REPORTED: 2025-04-16
				Site#01/	Site#01/	
				07Mar/25,12:57	03Mar/25,13:10	
				01Apr/25,09:00	01Apr/25,09:00	
	S	SAMPLE DES	CRIPTION	: /SO2	/TVOC	
		SAM	PLE TYPE:	: FILTER	FILTER	
		DATES	SAMPLED	:		
Parameter	Unit	G/S	RDL	6642271	6665782	
Ambient Sulfur Dioxide	ppbv		0.2	0.2	-	
Ambient VOC as Hexane	ppbv		0.7	-	<0.7	

Passive Air Quality Sampling

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

6642271-6665782 All samples are field blank subtracted.

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 25C267863 **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:

				Pass	sive Quality	Assurance	9	
DATE RECEIVED: 2025-04-07								DATE REPORTED: 2025-04-16
				Site#01/DUP	BLANK/	Site#01/DUP	BLANK/	
				07Mar/25,12:57	07Mar/25,12:57	03Mar/25,13:10	03Mar/25,13:10	
				01Apr/25,09:00	01Apr/25,09:00	01Apr/25,09:00	01Apr/25,09:00	
		SAMPLE DESC	RIPTION:	/SO2	/SO2	/TVOC	/TVOC	
		SAMF	LE TYPE:	FILTER	FILTER	FILTER	FILTER	
		DATE S	AMPLED:					
Parameter	Unit	G / S	RDL	6642272	6642273	6665783	6665784	
Ambient Sulfur Dioxide	ppbv		0.2	<0.2	<0.2	-	-	
Ambient VOC as Hexane	ppbv		0.7	-	-	<0.7	<0.7	

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

Analysis performed at AGAT Calgary (unless marked by *)



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

http://www.agatlabs.com

Quality Assurance

CLIENT NAME: STANTEC CONSULTING LTD

PROJECT: Woodfibre LNG

SAMPLING SITE:

AGAT WORK ORDER: 25C267863

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLED BY:

			Air	Qua	lity N	<i>I</i> onit	oring								
RPT Date: Apr 16, 2025			C	UPLICAT	E		REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured		eptable nits	Recoverv	Lir	eptable nits	Recoverv	Lin	eptable nits
		ld					Value	Lower	Upper	1		Upper	1		Uppe
Passive Air Quality Sampling															
Ambient Sulfur Dioxide	251	6642272	0.2	<0.2	NA	< 0.2	101%	90%	110%	99%	80%	120%	96%	80%	120%
Ambient VOC as Hexane	184	6665782	<0.7	<0.7	NA	< 0.7	108%	60%	140%	92%	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:

Page 5 of 6

AGAT QUALITY ASSURANCE REPORT (V1)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific tests tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



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

http://www.agatlabs.com

Method Summary

CLIENT NAME: STANTEC CONSULTING LTD

PROJECT: Woodfibre LNG

AGAT WORK ORDER: 25C267863

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



Have feedback? Scan here for a quick survey!

3650, 21 Street NE Calgary, AB T2E 6V6 P: 403.299.2000 webair.agatlabs.com

Notes:

AGAT Job Number: Laboratory Use Only

Chain of C	Chain of Custody Record						140				
Report Information	tion	Invoice To		Same Yes 🗆 / No 🗆	Turnaround Time Required (TAT)						
Company: Stantec	c	Company: Stantec	Stantec		Regular TAT I 5 to 7 working days						7
Contact: Kashii	Kashif Choudhry	Contact:	s.paya	ble.invoices@stantec.com and	Rush TAT □ Less than 24 hours						
Address: 100-7	100-75 24th Street East	Address:	100-75 24th Street East	t							
Saskat	Saskatoon, SK, S7K 0K3		Saskatoon, SK, S7K 0K3	X 3	🗆 48 to 72 hours						
Phone: 474-7.	474-774-0927 Fax:	Phone:	474-774-0927 F	Fax:	Date Required:			9Vİ:		9Vİ28.	ə
LSD:		PO/AFE#:	PO/AFE#: 123222160-12-2024.300	00	UPON FILLING OUT THIS SECTION, THE CLIENT ACCEPTS THAT SURCHARGES			Pass	_	ed C	visse
Client Project #:	Client Project #: 12322160-12-2024.300				WILL BE ATTACHED TO THIS ANALYSIS. IF NOT COMPLETED, REGULAR TAT WILL BE DEFAULT.	θvi	Ð	205 -	22 Pas		OC b
LABORATORY USE (LAB ID #)	SITE NAME/SAMPLE DESCRIPTION	NO	DATE/TIME INSTALLED	DATE/TIME EXTRACTED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	NO2 Pass	PM2.5 PM2.5	Duplicate	AOC b ^{ass} Blank - Sc	Duplicate	Blank - V
	Please Email reports to:										
	kashif.choudhry@stantec.com	com									
	daniel.casanova@stantec.com	com			×						
	katie.chuen@stantec.com										
	dan.jarratt@stantec.com									_	
							_				
	WLNG-SO2-AQMS		Mar-1,2025	Apr 1,2025							
	WLNG-SO2-DUPLICATE		LAAt 5:21	OQ:DOAM							
	WLNG-SO2-BLANK										
	WLNG-VOC-AQMS		Mar 3, 2025	HOL							
	WLNG-VOC-DUPLICATE		1-10PM	LH00:00						D	
	WLNG-VOC-Blank										۶
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Semples Relinquished By (Print Name and Sign):	nt Name and Sign):	Date/Time	Samples Receive	Samples Received By (Print Name and Sign):	Detd/Time	White Copy- AGAT		040	12	\cap	
Document #: DIV-43-1500.005	Any and all products and/or services pro	vided by AGAT Labs	are pursuant to the terms an	id conditions as set forth at www	Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabe.com/formsandconditions unless otherwise agreed in a current written contractual document.	in a current written co	ntractual docu	iment.	Date Revieed: Aug 03, 2023	: Aug 03, 2(5023