

**Winter 2020-2021 Atmospheric Compliance Monitoring
Program Report**

Doris and Madrid Projects

Final Report

December 2021

Prepared for:
Agnico Eagle Mines Limited
Toronto, Ontario

Prepared by:
Nunami Stantec Limited
Rankin Inlet, Nunavut

Project Number: 160930343





Executive Summary

This report presents the results of ambient air quality, dustfall, and meteorological monitoring conducted by Agnico Eagle Mines Ltd. (formerly TMAC Resources Inc.) at the Doris and Madrid Sites (the Sites) from October 2020 to May 2021 (Winter 2020-2021). The monitoring program is outlined in the Air Quality Management Plan (AQMP; TMAC 2016/2019). To calculate annual average concentrations for requisite parameters, data from May to September 2020 (already reported by Agnico Eagle in the Q1-Q3 2020 Ambient Monitoring Report (Nunami Stantec, 2021)) were also utilized in this report.

Monitoring around the Doris and Madrid Sites continued using the same methods/locations as in previous years.

The Winter 2020-2021 monitoring program included the following:

- Snow core sampling for dustfall at six locations in the vicinity of the Doris Site and nine locations in the vicinity of the Madrid Site utilizing snow cores over the period October 6, 2020 to May 15, 2021.
- Monitoring of Total Suspended Particulate (TSP), particulate less than 10-microns (PM₁₀) and particulate less than 2.5 microns (PM_{2.5}) using Partisol Samplers at one location at the Doris site.
- Meteorological monitoring for wind speed, wind direction, temperature, relative humidity, snowfall, rainfall, solar radiation, and barometric pressure at one location. The meteorological data were used in the interpretation of the air quality measurements.

The results of the Winter 2020-2021 ambient monitoring were compared to:

1. Relevant ambient air quality Standards, Objectives and Guidelines (SOGs)
2. Dustfall predictions downwind of the Tailings Impoundment Area (TIA) included in the 2016 Doris North Project Certificate and Type A Water License Amendment Application (the 2016 Amendment)
3. The Madrid Project dispersion model predictions for dustfall presented in the Final Environmental Impact Statement (FEIS) Air Quality Assessment (Nunami Stantec, 2017)

A summary of the results and conclusions of the Winter 2020-2021 compliance monitoring program are presented in Table I.

Table I: Summary of Winter 2020-2021 Compliance Monitoring Results

Measurement Parameter	Monitoring Period	Averaging Period	Results	Report Section	Action
Dustfall using Snow Core Sampling – Doris Site	October 2020 – May 2021	30-day	<ul style="list-style-type: none"> One exceedance of the ambient air quality objective for residential areas was measured, but the value is well below the ambient air quality objective for industrial and commercial sites. One measurement is above the maximum dustfall prediction in the 2016 amendment (at 250 m from the TIA) but is consistent with predictions in closer proximity to the TIA. All other measurements are less than the relevant dustfall predictions in the 2016 Amendment/2017 FEIS for the Madrid-Boston Project (2017 FEIS). 	4.1.1	Results Satisfactory
Dustfall using Snow Core Sampling – Madrid Site	October 2020 – May 2021	30-day	<ul style="list-style-type: none"> All measurements are below the ambient air quality objective for residential areas. All measurements are less than the maximum dustfall predictions in the 2017 FEIS for the Madrid-Boston Project. 	4.1.2	Results Satisfactory
TSP	October 2020 – May 2021	24-hour	<ul style="list-style-type: none"> All measurements are below the ambient air quality objective for residential areas. All measurements are less than the maximum dustfall predictions in the 2017 FEIS for the Madrid-Boston Project. 	4.2.1	Results Satisfactory
	May 2020 – April 2021	annual	<ul style="list-style-type: none"> The annual average concentration is below the ambient air quality objective. The measured annual average concentration is less than the maximum FEIS prediction. 	4.2.1	Results Satisfactory
PM ₁₀	October 2020 – May 2021	24-hour	<ul style="list-style-type: none"> All measurements are below the ambient air quality objective. All measurements are below the maximum FEIS prediction. 	4.2.2	Results Satisfactory

Winter 2020-2021 Atmospheric Compliance Monitoring Program Report
Doris and Madrid Projects
Executive Summary
December 2021

Measurement Parameter	Monitoring Period	Averaging Period	Results	Report Section	Action
PM _{2.5}	October 2020 – May 2021	24-hour	<ul style="list-style-type: none"> The measured 98th percentile concentration is below the Canadian Ambient Air Quality Standards (CAAQS). All measurements are below the maximum FEIS prediction. 	4.2.3	Results Satisfactory
	May 2020 – April 2021	annual	<ul style="list-style-type: none"> The measured annual average concentration is below the CAAQS. The measured annual average concentration is less than the maximum FEIS prediction. 	4.2.3	Results Satisfactory

This page intentionally left blank

Table of Contents

EXECUTIVE SUMMARY	I
ABBREVIATIONS	VII
1 INTRODUCTION.....	1-1
2 AMBIENT MONITORING DATA COMPARISONS	2-1
2.1 AIR QUALITY STANDARDS, OBJECTIVES AND GUIDELINES	2-1
2.2 DISPERSION MODEL PREDICTION COMPARISONS.....	2-1
2.2.1 Doris Site	2-1
2.2.2 Madrid Site	2-3
3 MONITORING PROGRAM DESCRIPTION	3-1
3.1 DUSTFALL	3-1
3.1.1 Sample Locations	3-1
3.1.2 Sampling Methods	3-9
3.1.3 Data Analysis	3-9
3.1.4 Schedule	3-9
3.2 SUSPENDED PARTICULATE MONITORING (PM ₁₀ , PM _{2.5} AND TSP)	3-10
3.2.1 Sample Location	3-10
3.2.2 Sampling Methods	3-10
3.2.3 Data Analysis	3-11
3.2.4 Schedule	3-11
3.3 METEOROLOGICAL MONITORING PROGRAM	3-12
3.3.1 Sampling Location	3-12
3.3.2 Sampling Methods	3-12
3.3.3 Data Analysis	3-12
3.3.4 Schedule	3-12
4 MONITORING PROGRAM RESULTS AND DISCUSSION.....	4-1
4.1 SNOW CORE DUSTFALL RESULTS	4-1
4.1.1 Doris Site	4-1
4.1.2 Madrid Site	4-2
4.2 PARTICULATE MATTER SAMPLING	4-3
4.2.1 TSP	4-5
4.2.2 PM ₁₀	4-5
4.2.3 PM _{2.5}	4-5
4.2.4 Trends in Ambient Particulate.....	4-6
4.3 METEOROLOGY	4-10
5 CONCLUSIONS.....	5-1
6 CLOSURE.....	6-1
7 REFERENCES.....	7-1

List of Tables

Table 2-1:	Ambient Air Quality Standards, Objectives and Guidelines.....	2-2
Table 2-2:	Summary of 2017 FEIS Particulate Predictions - Doris.....	2-3
Table 3-1:	Reasons for Doris Site Dustfall Sampling Location Selection	3-2
Table 3-2:	Reasons for Madrid Site Dustfall Sampling Location Selection.....	3-5
Table 4-1:	Snow Core Sampling Periods – Doris Site	4-1
Table 4-2:	Measured Deposition Rates from Snow Core Sampling – Doris Site	4-1
Table 4-3:	Snow Core Sampling Periods – Madrid Site.....	4-2
Table 4-4:	Measured Deposition Rates from Snow Core Sampling – Madrid Site.....	4-2
Table 4-5:	Summary of Ambient TSP, PM ₁₀ and PM _{2.5} Measurements	4-4
Table 4-6:	Summary of Data Recovery Rates and Detection Limit Statistics from Partisol Sampling (October 2020 - April 2021)	4-4
Table 4-7:	Summary of Measured TSP/PM ₁₀ /PM _{2.5} Concentrations for 2017-2021	4-7
Table 4-8:	Summary of Meteorological Measurements (Oct 2020 – Apr 2021)	4-11

List of Figures

Figure 3-1:	Locations of the Doris Ambient Monitoring Stations	3-3
Figure 3-2:	Locations of the Madrid Ambient Monitoring Stations	3-7
Figure 4-1:	Summary of Measured TSP Concentrations (Oct 2020 - Apr 2021)	4-8
Figure 4-2:	Summary of Measured PM ₁₀ Concentrations (Oct 2020 - Apr 2021)	4-8
Figure 4-3:	Summary of Measured PM _{2.5} Concentrations (Oct 2020 - Apr 2021)	4-9
Figure 4-4:	Wind Rose for October 2020 to April 2021	4-12

Appendices

APPENDIX A	Snow Core Laboratory Analysis
APPENDIX B	Partisol Sampler Laboratory Analysis
APPENDIX C	Partisol Sampler Calibration Records
APPENDIX D	Meteorological Data Summary

Abbreviations

µg	Microgram
AAAQO	Alberta Ambient Air Quality Objective
Agnico Eagle	Agnico Eagle Mines Limited
ALS	ALS Laboratory Group
AMSL	Above Mean Sea Level
ASTM	ASTM International
BC	British Columbia
BC MoE	British Columbia Ministry of Environment
CAAQS	Canadian Ambient Air Quality Standards
CALA	Canadian Association for Laboratory Accreditation
CCME	Canadian Council of Ministers of the Environment
cm	Centimetre
dm ²	Square decimetre (equal to 100 square centimetres)
ECCC	Environment and Climate Change Canada
ERM	ERM Consultants Canada Ltd.
FEIS	Final Environmental Impact Statement
GN	Government of Nunavut
hr	Hour
km	Kilometre
m	Metre
m ²	Square metre

m ³	Cubic metre
mg	Milligram
mg/dm ² /d	Milligrams per square decimeter per day
mg/100-cm ² /30-days	Milligram per 100 square centimetres per 30-day period
mg/L	Milligram per Litre
NAPS	National Ambient Air Quality Pollution Surveillance Program
NIRB	Nunavut Impact Review Board
Nunami Stantec	Nunami Stantec Ltd.
NWB	Nunavut Water Board
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 µm in diameter
PM _{2.5}	Particulate Matter less than 2.5 µm in diameter
Projects	Doris and Madrid Projects
PDA	Project Development Area
QA/QC	Quality Assurance/Quality Control
Sites	Doris and Madrid Sites
SOGs	Standards, Objectives and Guidelines
SOP	Standard Operating Procedure
SWE	Snow-Water Equivalent
TIA	Tailings Impoundment Area (Doris)
TMAC	TMAC Resources Inc.
TSP	Total Suspended Particulate
TSS	Total Suspended Solids

US	United States
US EPA	United States Environmental Protection Agency

This page intentionally left blank

1 INTRODUCTION

This report presents the results of ambient air quality, dustfall, and meteorological monitoring conducted by Agnico Eagle Mines Ltd. (Agnico Eagle) (formerly TMAC Resources Inc.) at the Doris and Madrid Sites (the Sites) from October 2020 to May 2021 (Winter 2020-2021). The monitoring program is outlined in the Air Quality Management Plan (AQMP; TMAC 2016/2019). To calculate annual average concentrations for requisite parameters, data from May to September 2020 (already reported by Agnico Eagle in the Q1-Q3 2020 Ambient Monitoring Report (Nunami Stantec, 2021)) were also utilized in this report.

Monitoring around the Doris and Madrid Sites continued using the same methods/locations as in previous years. In the summer of 2021, Agnico Eagle installed a new continuous monitoring station at the Doris Site; however, there were challenges obtaining calibration gas which delayed full commissioning of all the instrumentation. Agnico Eagle is planning to install a new continuous monitoring station at the Madrid Site once site activities resume, which is anticipated around the end of 2022 or in 2023.

The Winter 2020-2021 monitoring program included the following:

- Snow core sampling for dustfall at six locations in the vicinity of the Doris Site utilizing snow cores over the period October 6, 2020 (first snow fall with consistent sub-zero temperature) to May 6-15, 2021.
- Snow core sampling for dustfall at nine locations in the vicinity of the Madrid Site utilizing snow cores over the period October 6, 2020 to May 8-15, 2021.
- Monitoring of Total Suspended Particulate (TSP), particulate less than 10-microns (PM₁₀) and particulate less than 2.5 microns (PM_{2.5}) using Partisol Samplers at one location at the Doris site.
- Meteorological monitoring for wind speed, wind direction, temperature, relative humidity, snowfall, rainfall, solar radiation, and barometric pressure at one location. The meteorological data were used in the interpretation of the air quality measurements.

No dustfall jar sampling is conducted during the winter period.

In accordance with Term and Condition 28 of Nunavut Impact Review Board (NIRB) Project Certificate No.003, Agnico Eagle maintains the Hope Bay Project Noise Abatement and Monitoring Plan (TMAC, December 2017) which requires environmental noise monitoring programs to be conducted during each project stage: pre-construction (baseline), construction, operation, and reclamation. Baseline and construction noise monitoring has been conducted and operations monitoring will be conducted at an appropriate timeframe during operations. No additional noise monitoring under the Hope Bay Project Noise Abatement and Monitoring Plan was conducted during the winter 2020-2021 period that was the subject of this report.

The results of the Winter 2020-2021 ambient monitoring were compared to:

- Relevant ambient air quality Standards, Objectives and Guidelines (SOGs);
- Dustfall predictions downwind of the Tailings Impoundment Area (TIA) included in the 2016 Doris North Project Certificate and Type A Water License Amendment Application (the 2016 Amendment); and,
- The Madrid Project dispersion model predictions for dustfall presented in the Final Environmental Impact Statement (FEIS) Air Quality Assessment (Nunami Stantec, 2017).

Madrid North construction in 2020-2021 corresponds with the construction phase air quality assessment presented in the Madrid-Boston Project 2017 FEIS (Nunami Stantec, 2017), so this study was used for comparison to the Madrid measurements. Activities at the Doris Site in winter 2020-2021 most closely correspond to the operations phase of the Madrid-Boston Project, so the Doris measurements were compared to the 2017 FEIS and the 2016 Amendment modelling of TIA deposition.

2 AMBIENT MONITORING DATA COMPARISONS

The results of the Winter 2020-2021 ambient monitoring were compared to relevant air quality standards, objective and guidelines and Doris and Madrid Sites dispersion modelling studies, as detailed in the following sections.

2.1 Air Quality Standards, Objectives and Guidelines

Ambient air quality Standards, Objectives and Guidelines (SOGs) have been developed by the Canadian federal government and individual provinces and territories to assist or mandate the management of common air contaminants.

The assessment incorporates the Nunavut Environmental Guideline for Ambient Air Quality (Government of Nunavut 2011). Nunavut does not have guidelines or standards for some of the air contaminants. In these cases, guidelines, objectives, or standards from the federal government (CCME 2016, 2020), British Columbia (BC) government (BC MOE 2016) and Alberta government (Alberta Environment and Parks 2019) have been used.

The ambient air quality SOGs that are used in this report are summarized in Table 2-1. Updated Canadian Ambient Air Quality Standards (CAAQS) for particulate matter with diameter less than 2.5 µm (PM_{2.5}) are in effect as of 2020.

2.2 Dispersion Model Prediction Comparisons

2.2.1 Doris Site

Construction activities at the Doris site related to the Madrid-Boston Project had not yet commenced; however, during winter 2020-2021 Doris site activities included processing ore from the Madrid site. These activities most closely correspond to the operations phase of the Madrid-Boston Project for the Doris site presented in the 2017 FEIS. The 2017 FEIS predicted deposition rates in the vicinity of the monitors varied between 7.4 and 25.7 mg/100-cm²/30-days. The 2016 Doris North Project Certificate and Type A Water License Amendment Application (the 2016 Amendment) also contained predictions for dustfall. The Amendment predicted that Tailings Impoundment Area (TIA) maximum monthly dustfall contributions (modelled over three years) would be more than 53 mg/100-cm²/30-days up to 250 m from the TIA and would drop to 2.1 mg/100-cm²/30-days at approximately 1 km from the TIA. These predictions were for dustfall resulting from the subaerial deposition of tailings in the TIA only and did not include dust emissions from any other sources (e.g., unpaved roads) or project phases (e.g., construction), nor did these predictions include background (non-project related) dust contributions.

Dustfall predictions for the Doris Site were compared to the 2016 Amendment/2017 FEIS modelling for dustfall locations downwind of the TIA and the 2017 FEIS modelling for all other dustfall locations. Maximum Doris site FEIS predictions for TSP, PM₁₀ and PM_{2.5} are presented in Table 2-2.

Table 2-1: Ambient Air Quality Standards, Objectives and Guidelines

Contaminant	Units	Averaging Period	Nunavut Ambient Air Quality Guideline ^a	Guidelines or Standards from Other Government Agencies	
				Value	Agency
Total Suspended Particulate (TSP)	$\mu\text{g}/\text{m}^3$	24-hour	120	-	
		Annual (geometric mean)	60	-	
Particulate Matter < 10 μm diameter (PM ₁₀)	$\mu\text{g}/\text{m}^3$	24-hour	-	50	BC Ambient Air Quality Objective ^e
Particulate Matter < 2.5 μm diameter (PM _{2.5})	$\mu\text{g}/\text{m}^3$	24-hour	30	27 ^b	CAAQS ^d
	$\mu\text{g}/\text{m}^3$	Annual	-	8.8 ^c	CAAQS ^d
Dust deposition	$\text{mg}/\text{dm}^2/30 \text{ days}$	30-day	-	53 (residential and recreation areas) 158 (commercial and industrial areas)	Alberta Ambient Air Quality Objectives and Guidelines ^f
<p>NOTES:</p> <p>Dash (-) = not applicable</p> <p>a: Reference: Government of Nunavut 2011</p> <p>b: The 24-hour PM_{2.5} value is calculated from the 3-year average of the annual 98th percentile of the daily 24-hour average concentration.</p> <p>c: The annual PM_{2.5} value is calculated from the 3-year average of the annual average concentrations.</p> <p>d: Canadian Ambient Air Quality Standards for O₃ and PM_{2.5}. Reference: CCME 2020</p> <p>e: Reference: BC MOE 2020</p> <p>f: Reference: Alberta Environment and Parks 2019</p>					

Table 2-2: Summary of 2017 FEIS Particulate Predictions - Doris

Parameter	Averaging Period	Maximum Predicted Concentration ($\mu\text{g}/\text{m}^3$)
TSP	24-hour	69.9
	Annual	13.3
PM ₁₀	24-hour	49.6
PM _{2.5}	24-hour	12.1 (98th percentile)
	Annual	5.0

2.2.2 Madrid Site

Dustfall measurements made in the vicinity of the Madrid North site (under construction in Winter 2020-2021) were compared to construction predictions made in the air quality modelling study in the FEIS for the Madrid-Boston Project (Nunami Stantec, 2017). Construction phase dustfall predictions in the FEIS at the locations of the Madrid dustfall monitoring sites ranged from 8.9 to 46.6 mg/100-cm²/30-days.

This page intentionally left blank

3 MONITORING PROGRAM DESCRIPTION

3.1 Dustfall

Dustfall is the measure of airborne particulate that has settled onto a given surface. The main dust generation sources will be from wind erosion from tailings facilities, the use of the crushers, and the movement of vehicles and large equipment on site. The dustfall monitoring program measures the quantities of dust deposited near project sites. Dustfall is monitored using dustfall canisters in the summer and by snow core sampling in the winter. Results of the monitoring program can be used to modify dust management procedures at the site, if required. Since dustfall measurements are a non-continuous methodology requiring laboratory analysis, the sampling is only used to retroactively confirm the effectiveness of mitigation measures. Real-time dust management on the site is carried out through application of water or approved chemical dust suppressants based on on-site observations of dust generation. Water usage is tracked and reported in the Water License monthly and annual reports filed with the Nunavut Water Board (NWB).

3.1.1 Sample Locations

Nunavut does not have established siting requirements for dustfall samplers. Therefore, the siting criteria from the BC MoE (BC MoE 2020) and the US EPA methods (US EPA 1999, 2009) are used. The monitoring locations were selected based on the following criteria:

- The samplers are not in an area of future infrastructure development
- Samplers are sited up and down wind of the surface facilities and zones of high activity, considering the dominant wind direction during the summer months
- The samplers are more than 20 m away from structures, vegetation, and topographic features
- The samplers can be safely accessed

3.1.1.1 *Doris Dustfall*

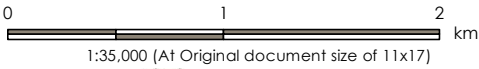
Dustfall monitoring at the Doris site is undertaken at six locations, including a control station. The reasons for each selected location are provided in Table 3-1 and shown in Figure 3-1.

Table 3-1: Reasons for Doris Site Dustfall Sampling Location Selection

Station	Reason for Selected Location	UTM Coordinates (Zone 13W)		Elevation (m above mean sea level)
		Easting (m)	Northing (m)	
DFA1	This location has historical data and represents dustfall from the general site area, is located downwind of crushing activities, and close to the camp and mill site. The station is co-located with the Doris Meteorological Station.	433388	7558617	36
CDF4	This station is located approximately 200 m away from Quarry 2, where crushing activities occur, to monitor dustfall from crushing activities.	432616	7558982	80
TIA-DF1	This station is located approximately 250 m downwind of the TIA tailings beach at a distance which corresponds with the maximum predicted monthly Project-generated dustfall of 53 mg/100-cm ² /30-days in the 2016 Amendment.	435881	7556806	51
TIA-DF2	This station is located approximately 1.65 km downwind (east) of the TIA tailings beach. This location is approximately 300 m west (upwind) of the location predicted to have a maximum annual TIA-generated dustfall level of 23 mg/100-cm ² /year (1.9 mg/100-cm ² /30-days) in the 2016 Amendment.	437318	7557017	46
TIA-DF3	This station is located approximately 3 km downwind of the TIA tailings beach at a distance which corresponds with minimal annual predicted Project-generated dustfall.	438574	7557252	23
ControlDF	This station is located well away from potential project contributions and represents background conditions. The station is approximately 2 km southwest of Windy Camp.	430993	7549219	35



- Legend
- Project Development Area (PDA)
 - Roads



Project Location Hope Bay, Nunavut 160930343 REVA
Prepared by BCC on 2020-10-28
Technical Review by Greg Crooks on 2020-10-28

Client/Project
TMAC - RESOURCES-HOPE BAY
NUNAMI STANTEC LIMITED

Figure No.
3-1
Title
Locations of the Doris Ambient Monitoring Stations

Notes

1. Coordinate System: NAD 1983 UTM Zone 13N
2. Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

This page intentionally left blank

3.1.1.2 *Madrid Dustfall*

Dustfall monitoring stations around the Madrid site were installed in the Spring of 2019. Dustfall monitoring was undertaken at nine locations around the Madrid North and Madrid South locations, including a control station in the predominantly upwind location and three locations to quantify dustfall with perpendicular distance from the Doris-Madrid Road. The reasons for each selected location are provided in Table 3-2 and are shown in Figure 3-2.

Table 3-2: Reasons for Madrid Site Dustfall Sampling Location Selection

Station	Reason for Selected Location	UTM Coordinates (Zone 13W)		Elevation (m above mean sea level)
		Easting (m)	Northing (m)	
M-DF01	Control station in a predominantly upwind location of the Madrid sites - in the vicinity of the Windy Radio Tower	432840	7549835	26
M-DF02	This station is located in the vicinity of the predicted maximum dustfall along the property boundary for the overall Madrid operations – 2 km east of Madrid North processing plant	435586	7550597	44
M-DF03	This station is located in the vicinity of the predicted maximum dustfall along the property boundary in the vicinity of Madrid South operations – 2 km east of the Madrid South Portal.	436338	7547550	45
M-DF04	Station is located to assess the maximum impact inside the property boundary but outside the project development area (PDA) near the Madrid North operations – along vent raise pad access road east of the ore stockpile.	433848	7549908	44
M-DF05	Station is located to assess the maximum impact inside the property boundary but outside the PDA near the Madrid South operations – along shore of Patch Lake east of the waste rock pile.	435052	7547168	52
M-DF06	Upwind station for roadway dustfall study - 50 m west of Doris-Madrid All-Weather Road.	432661	7552874	62
M-DF07	Downwind station for roadway dustfall study - 50 m east of Doris-Madrid All-Weather Road (in a perpendicular line to road).	432768	7552891	62
M-DF08	Downwind station for roadway dustfall study 100 m east of Doris-Madrid All-Weather Road (in a perpendicular line to road).	432823	7552891	66
M-DF09	Downwind station for roadway dustfall study (200 m east of Doris-Madrid All-Weather Road (in a perpendicular line to road).	432922	7552895	45

This page intentionally left blank

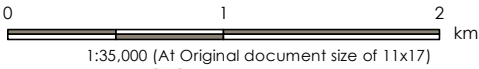


- Legend
- Project Development Area (PDA)
 - Roads

Notes

1. Coordinate System: NAD 1983 UTM Zone 13N
2. Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.



Project Location
Hope Bay,
Nunavut

160930343 REVA
Prepared by BCC on 2020-10-28
Technical Review by Greg Crooks on 2020-10-28

Client/Project
TMAC - RESOURCES-HOPE BAY
NUNAMI STANTEC LIMITED

Figure No.

3-2

Title

**Locations of the Madrid Ambient
Monitoring Stations**

This page intentionally left blank

3.1.2 Sampling Methods

Dustfall collection is a passive monitoring method which provides a measure of particulates that would be directly deposited onto vegetation or soil. The basis of the methodologies is that field-deposited dust is collected in a manner that is quantifiable in terms of area (cm^2) and exposure length (days), and that samples are then sent to a laboratory for analysis. Dustfall is monitored at each station via dustfall canisters during the summer and through snow core sampling in the winter.

Snow core sampling for the Doris site was instituted in 2016 to record dustfall during the winter months due to issues with using the canister method during winter months. Snow core sampling was implemented at the new Madrid dustfall stations starting in Winter 2019-2020. At each dustfall station, snow core subsamples are collected using a snow corer to retrieve a cylindrical snow core from the snowpack. A minimum of three snow cores are collected along a transect at each monitoring location. The samples are composited in the field to produce a single representative composite snow sample for the location. Composite samples are bagged, labelled, and shipped to an accredited laboratory (ALS Laboratory Group (ALS)) for processing. Processing of snow cores require filtration, drying and weighing in the laboratory. For quality assurance/quality control (QA/QC), a duplicate sample is collected from one of the snow core sampling locations.

Snow core samples are analyzed by the laboratory as water samples and are reported in units of mg/L . These units are converted to dustfall units of $\text{mg}/100\text{-cm}^2$ and standardized to $\text{mg}/100\text{cm}^2/30\text{-days}$ over the monitoring period. The surface loading rate was calculated by multiplying the parameter concentration (mg/L or $\text{mg}/1000\text{ cm}^3$) by the average snow-water-equivalent of the transect samples (measured in cm of water) and dividing by the number of days snow had accumulated (time from the first snowfall to the sampling day).

3.1.3 Data Analysis

Standardized dustfall is compared to the Alberta AAQO for dustfall (Table 2-1) as Nunavut does not currently have a dustfall standard. Analysis of temporal trends is undertaken to identify any trends in the measured dustfall levels with time of year or meteorological conditions. A qualitative comparison to the 2017 FEIS and 2016 Amendment predictions was also made. Review of dustfall levels with distance from the tailings management areas was also made to determine spatial trends in dustfall.

3.1.4 Schedule

Winter dustfall is collected at the end of winter (late April/early May). The snow core composite sample reflects cumulative winter dust deposition since the date of first snowfall to remain on ground to the sampling period end (approximately October through May, inclusive).

3.2 Suspended Particulate Monitoring (PM₁₀, PM_{2.5} and TSP)

Suspended particulate matter includes both airborne solid and low-vapour-pressure liquid particles having aerodynamic diameters ranging in size from 0.01 to about 44 µm. The generation of particulate matter results from the movement of vehicles, mobile equipment, crushing, blasting, bulk handling, and storage and other activities associated with mineral processing and construction. Wind erosion from sources such as tailings can also generate particulate emissions.

3.2.1 Sample Location

Nunavut does not have established siting requirements for ambient air samplers. Therefore, the siting criteria from the BC MOE (BC MOE 2020) and the United States Environmental Protection Agency (US EPA 1999, 2009) were used. The monitoring location was selected based on the following criteria:

- A stable 120 VAC power source is available
- The sampler is not in an area of future infrastructure development
- The sampler inlet is mounted at height of 2 to 15 m above ground level
- The location is accessible year-round
- The sampler is away from structures, vegetation, and topographic features

Sampling is conducted at monitoring location DFA1 in the Doris site. This location is free from obstructions and nearby pollutant sources that may cause interference in suspended particulate monitoring.

3.2.2 Sampling Methods

At the Doris site, ambient particulate monitoring in Winter 2020-2021 continued to use the Partisol monitors described below following the protocols described in the 2016 version of the Agnico Eagle AQMP (TMAC, 2016). Installation and operation of new continuous particulate and NO_x monitors described in the 2019 version of the Agnico Eagle AQMP (TMAC, 2019) was completed in the summer of 2021 for the Doris site and this data will be used in future reports. Agnico Eagle is planning to install the new continuous monitoring station at the Madrid Site once site activities resume, which is anticipated around the end of 2022 or in 2023.

A Partisol Plus Model 2025 ambient air sampler is used to monitor TSP and a Partisol Sequential Dichotomous Model 2025D ambient air sampler is used to monitor PM₁₀ and PM_{2.5} simultaneously. The Partisol instruments are used in Canada for compliance monitoring programs and are recognized as equivalent reference methods by the US EPA (2009).

The Partisol ambient air samplers draw a particulate-laden ambient air stream through a size-selective inlet, and then through a filter. A built-in pump provides the vacuum required to draw the air flow through the sample filter and a volume flow controller monitors and automatically adjusts the flow rate. The filters are sealed pre and post use, thereby protecting them from environmental interferences during sampling operations. The filters are pre and post-weighed by ALS.

Pallflex TX40H120-WW Teflon coated glass fibre filters were used with the Partisol samplers. To reduce contamination, filter exchanges were performed using pneumatic pressure from the sample pump and did not involve any special electromechanical components, belts, or motors. New filter cassettes from the supply magazine were pushed up and rightward to the sampling position, while the previous cassette was moved to the storage magazine. The supply and storage magazines were covered to seal off the filter cassettes, thereby protecting them from environmental interference during sampling operations.

The Partisol Sequential Dichotomous Model 2025-D PM₁₀/PM_{2.5} sampler uses a PM₁₀ air inlet followed by a US EPA dichotomous virtual impactor that separates the incoming PM₁₀ air stream into fine (PM_{2.5}) and coarse (PM₁₀ minus PM_{2.5}) components. These two air components are collected onto separate filter cassettes; one for fine and one for coarse components. The Partisol Plus 2025 TSP sampler collects TSP directly and does not use a special air inlet or virtual impactor.

Due to the very cold climate, the Partisol samplers are installed inside temperature-controlled shelters to minimize sample schedule interruptions caused by cold weather, wet conditions, and excess humidity (filter conditioning), air leaks, and pump malfunctions. The Partisol air sampler locations are free from obstructions and nearby pollutant sources that may cause interference in suspended particulate monitoring.

3.2.3 Data Analysis

The Partisol sampler filters were analyzed by ALS. Following standard protocol, filter weights reported by the laboratory as being less than the detection limit were taken to be half the detection limit in the analysis.

The particulate sampling provides a 24-hour average ground-level concentration for each size fraction. This was compared to the relevant 24-hour standards (Table 2-1). Temporal trends in the TSP, PM₁₀ and PM_{2.5} ambient concentrations over the study period were examined with respect to time of year and meteorological conditions.

3.2.4 Schedule

The Partisol samplers were programmed to follow Environment and Climate Change Canada's (ECCC). National Ambient Air Quality Objectives Pollution Surveillance Program (NAPS) schedule, which requires 24-hour sampling every six days for particulate matter (ECCC 2016). By operating on a six-day cycle, different days are sampled each week allowing for differing production intensity or other cyclical production variations.

Scheduled calibration, maintenance, and audits occurred throughout the year in accordance with the Partisol maintenance standard operating procedure (SOP). Training in these activities is provided to staff as required.

3.3 Meteorological Monitoring Program

The Doris meteorological station has recorded air temperature, relative humidity, wind speed and direction, precipitation, and solar radiation since 2004. Barometric pressure has been recorded since 2010. In September 2016, a Geonor T-200B all-weather precipitation gauge was installed to collect precipitation year-round.

3.3.1 Sampling Location

The meteorological station is installed at location DFA1. This siting was chosen in consultation with Environment Canada and Health Canada officials.

3.3.2 Sampling Methods

The meteorological station is a self-contained, solar/battery-powered system and includes instrumentation to measure hourly values of temperature, wind speed, wind direction, relative humidity, solar radiation, and rainfall. Data is recorded by a data logger located at the station and is downloaded manually or through remote access.

3.3.3 Data Analysis

Meteorological data are analyzed on a monthly basis and compiled into summary tables. Data validity checks are conducted and missing / invalid data is flagged. For the Winter 2020-2021 period, 72 hours of meteorological data were invalidated. The data recovery rates for the meteorological instruments in this period were greater than 98%.

3.3.4 Schedule

Meteorological data is collected continuously and is downloaded at the beginning of each month, or on an as-needed basis.

4 MONITORING PROGRAM RESULTS AND DISCUSSION

4.1 Snow Core Dustfall Results

4.1.1 Doris Site

The measurement period for each snow core sample at the Doris Site is provided in Table 4-1. Measured dustfall rates estimated for each monitoring location in 2020-2021 are summarized in Table 4-2. Laboratory results are presented in Appendix A.

Table 4-1: Snow Core Sampling Periods – Doris Site

Snow Core Station	Date of First Snowfall	Sample Date	Sample Time (days)
CDF4	10/6/2020	5/15/2021	221
DFA1		5/8/2021	214
TIA-DF1		5/6/2021	212
TIA-DF2		5/7/2021	213
TIA-DF3		5/7/2021	213
ControlDF		5/7/2021	213

Table 4-2: Measured Deposition Rates from Snow Core Sampling – Doris Site

Snow Core Station	Alberta Ambient Air Quality Objective (AAAQO)	Measured Dustfall Level (mg/100-cm ² /30-days)	Percentage of AAAQO (Residential and Recreation Area)	Percentage of AAAQO (Commercial and Industrial Area)
CDF4	53 (residential and recreation areas)	5.0	9%	3%
DFA1		3.4	6%	2%
TIA-DF1		83.7	158%	53%
TIA-DF2	158 (commercial and industrial areas)	0.5	1%	0.3%
TIA-DF3		2.3	4%	1%
ControlDF		5.2	10%	3%

Dustfall levels estimated from the snow core sampling ranged from 0.5 mg/100-cm²/30-days (at TIA-DF2) to 83.7 mg/100-cm²/30-days (TIA-DF1) during the October 2020 to May 2021 monitoring period (213 to 221 days). Except at one location, all measured dustfall levels are less than the AAAQO of 53 mg/100-cm²/30-days for residential and recreational areas and all are less than the AAAQO of 158 mg/100-cm²/30-days for commercial and industrial areas. The maximum measured dustfall (83.7 mg/100-cm²/30-days) occurred at Station TIA-DF1 which is downwind of the Doris Tailings Beach.

The dustfall measurements at locations TIA-DF2 and TIA-DF3 (also monitoring locations downwind of the TIA) are consistent with the predicted dustfall level in the 2016 Amendment modelling of <53 mg/100-cm²/30-days outside of 250 m from the TIA. The dustfall measurement at TIA-DF1 (located about 250 m downwind of the TIA) exceeded the 2016 Amendment prediction at this downwind distance but is consistent with the model predictions (>53 mg/100-cm²/30-days) for locations within 250 m of the TIA. Dustfall rates at all other Doris monitoring locations were less than their maximum predicted dustfall levels in the 2017 FEIS modelling.

4.1.2 Madrid Site

The measurement period for each snow core sample at the Madrid Site is provided in Table 4-3. Measured dustfall rates estimated for each monitoring location in Winter 2020-2021 are summarized in Table 4-4. Laboratory results are presented in Appendix A. Snow core measurements were collected from all Madrid locations in Winter 2020-2021.

Table 4-3: Snow Core Sampling Periods – Madrid Site

Snow Core Station	Date of First Snowfall	Sample Date	Sample Time (days)
MDF01	10/6/2020	5/15/2021	221
MDF02		5/10/2021	216
MDF03		5/10/2021	216
MDF04		5/15/2021	221
MDF05		5/15/2021	221
MDF06		5/8/2021	214
MDF07		5/8/2021	214
MDF08		5/8/2021	214
MDF09		5/8/2021	214

Table 4-4: Measured Deposition Rates from Snow Core Sampling – Madrid Site

Snow Core Station	Alberta Ambient Air Quality Objective (AAAQO)	Measured Dustfall Level (mg/100-cm ² /30-days)	Percentage of AAAQO (Residential and Recreation Area)	Percentage of AAAQO (Commercial and Industrial Area)
MDF01	53 (residential and recreation areas)	2.2	4%	1%
MDF02		2.9	5%	2%
MDF03		6.1	12%	4%
MDF04		6.4	12%	4%
MDF05	158 (commercial and industrial areas)	1.6	3%	1%
MDF06		1.9	4%	1%
MDF07		10.3	19%	6%
MDF08		6.2	12%	4%
MDF09		10.1	19%	6%

Dustfall levels estimated from the snow core sampling ranged from 1.6 mg/100-cm²/30-days (at MDF05) to 10.3 mg/100-cm²/30-days (MDF07) during the October 2020 to May 2021 monitoring period (214 to 221 days). All measured dustfall levels were less than the AAAQO of 53 mg/100-cm²/30-days for residential and recreational areas and less than the AAAQO of 158 mg/100-cm²/30-days for commercial and industrial areas. The maximum deposition rate (10.3 mg/100-cm²/30-days) occurred at Station MDF07 which is 50 m east of the Doris-Madrid All-Weather Road.

The dustfall rates from all Madrid Site monitoring stations were less than the maximum predicted dustfall level at each location in the 2017 FEIS modelling.

4.2 Particulate Matter Sampling

TSP, PM₁₀ and PM_{2.5} ambient monitoring is conducted at location DFA1. A summary of the measured ambient TSP, PM₁₀ and PM_{2.5} concentrations for the study period are presented in Table 4-5. Table 4-6 provides a summary of the data recovery rates and detection limit statistics for the Partisol sampling for the reporting period. Laboratory results for the Partisol samplers are presented in Appendix B. Calibration records are presented in Appendix C. Calibrations in 2021 were not conducted as frequently as previous years due to operational constraints related to the COVID-19 pandemic.

Table 4-5: Summary of Ambient TSP, PM₁₀ and PM_{2.5} Measurements

Parameter	Air Quality Standard / Objective		24-Hour Average (µg/m ³)				Annual Average (µg/m ³)	
	24-Hour	Annual	Maximum ¹	98 th Percentile ²	Range	% of Criteria	Average ³	% of Criteria
TSP	120	60	36.7		1.0 - 36.7	31%	5.2	9%
PM ₁₀	50	-	17.7		1.5 - 17.7	35%	2.5	N/A
PM _{2.5}	27	8.8	6.9	6.9	1.15 - 6.9	26%	1.9	21%

Notes:

1 – Results reported for October 2020 to April 2021

2 – Results reported for May 2020 to April 2021.

3 – Results reported for May 2020 to April 2021 – Geometric mean reported for TSP and arithmetic average for PM₁₀ and PM_{2.5}

Table 4-6: Summary of Data Recovery Rates and Detection Limit Statistics from Partisol Sampling (October 2020 - April 2021)

Parameter	TSP	PM ₁₀	PM _{2.5}
Number of Samples	35	35	35
Number of Samples Less Than Detection Limit	7	28	26
Number of Invalid Samples	0	0	0
Data Recovery Rate (%)	100%	100%	100%
Percent of Samples Less Than Detection Limit	20%	80%	74%

4.2.1 TSP

The data recovery rate for the Partisol TSP sampling was 100% which is well above acceptable levels. Of the valid samples, 20% were below the laboratory detection limit - for these samples half the detection limit was used in the analysis.

The maximum measured 24-hour average TSP concentration in the October 2020 to April 2021 period was 36.7 $\mu\text{g}/\text{m}^3$ which is 31% of the applicable Government of Nunavut (GN) air quality objective. This concentration is below the maximum predicted TSP concentration in the 2017 FEIS of 69.9 $\mu\text{g}/\text{m}^3$.

To calculate an annual average concentration, TSP monitoring data for May - September 2020 which have been previously reported, were used in conjunction with the October 2020 – April 2021 TSP measurements. The annual geometric mean of the measured TSP concentrations for the period May 2020 to April 2021 was 5.2 $\mu\text{g}/\text{m}^3$ which is 9% of the applicable GN annual objective. This concentration is below the maximum predicted annual average TSP concentration in the 2017 FEIS of 13.3 $\mu\text{g}/\text{m}^3$.

A time history plot of measured 24-hour average TSP concentrations for the period October 2020 to April 2021 is presented in Figure 4-1. TSP concentrations were low throughout the monitoring period.

4.2.2 PM₁₀

The data recovery rate for the Partisol PM₁₀ sampling was 100% which is well above acceptable levels. Of the valid samples, 80% were below the laboratory detection limit, and half the detection limit was used in the analysis for these samples.

The maximum measured 24-hour average PM₁₀ concentration in the October 2020 to April 2021 period was 17.7 $\mu\text{g}/\text{m}^3$ which is 35% of the applicable GN objective. This measured concentration is below the maximum predicted PM₁₀ concentration in the 2017 FEIS of 49.6 $\mu\text{g}/\text{m}^3$.

A time history plot of measured 24-hour average PM₁₀ concentrations for the period October 2020 to April 2021 is presented in Figure 4-2. PM₁₀ concentrations were typically low through the winter 2020-2021 period.

4.2.3 PM_{2.5}

The PM_{2.5} data recovery rate was 100% which is above acceptable levels. Of the valid samples, 74% were below the laboratory detection limit, and half the detection limit was used in the analysis.

The calculated 98th percentile of the measured 24-hour average PM_{2.5} concentrations in the one-year period of May 2020 to April 2021 (which includes the winter 2020-2021 timeframe) was 6.9 $\mu\text{g}/\text{m}^3$ which is below the Canadian Ambient Air Quality Standard (CAAQS) of 27 $\mu\text{g}/\text{m}^3$. An explicit comparison to the CAAQS for PM_{2.5} requires averaging the 98th percentile daily average levels in each of three consecutive calendar years, with a valid comparison requiring valid data for a minimum of two of the three years. Since the data presented in this report is for a single year and is not based on a calendar year, comparison to the CAAQS is provided for informational purposes only; not to assess compliance. The 98th

percentile of the measured 24-hour average PM_{2.5} concentrations is below the maximum predicted 98th percentile PM_{2.5} concentration in the 2017 FEIS of 12.1 µg/m³.

The annual average of the measured PM_{2.5} concentrations for the period May 2020 to April 2021 was 2.2 µg/m³ which is less than the annual CAAQS of 8.8 µg/m³. As with the 24-hour CAAQS, compliance with the annual average CAAQS requires averaging daily measurements in each of three consecutive calendar years, with a valid comparison requiring valid data for a minimum of two of the three years. Since the data presented in this report is for a single year and is not based on a calendar year, comparison to the annual CAAQS is provided for informational purposes only; not to assess compliance. The measured annual average concentration is below the maximum predicted annual average PM_{2.5} concentration in the 2017 FEIS of 5.0 µg/m³.

A time history plot of measured 24-hour average PM_{2.5} concentrations for the period October 2020 to April 2021 is presented in Figure 4-3. Similar to PM₁₀, PM_{2.5} concentrations were generally low throughout the winter 2020-2021 period.

4.2.4 Trends in Ambient Particulate

Table 4-7 below provides a comparison of maximum measured 24-hour and annual average TSP, PM₁₀ and PM_{2.5} measurements over the last three winter periods. The highest 24-hour average TSP concentration was measured in winter 2019-2020 and exceeded the Guideline by 47%.

The highest measured PM₁₀ concentration occurred in winter 2019-2020 and was 20% of the guideline. In winter 2018-2019 and 2020-2021 the maximum measured PM₁₀ concentrations were also well below the guideline.

Measured 24-hour and annual average PM_{2.5} concentrations were similar in all three winter periods and were well below the CAAQS.

Table 4-7: Summary of Measured TSP/PM₁₀/PM_{2.5} Concentrations for 2017-2021

Contaminant	Averaging Period	Criteria	Oct 2018 – Apr 2019	Oct 2019 – Apr 2020	Oct 2020 – Apr 2021
TSP	24-hour	120	121.0	176	36.7
	Annual ⁽¹⁾	60	8.2	6.2	5.2
PM ₁₀	24-hour	50	8.5	9.9	17.7
PM _{2.5}	24-hour	28 – 27 ⁽²⁾	5.7	5.9	6.9
	Annual ⁽¹⁾	10 – 8.8	2.6	2.2	1.9

Notes:

- 1 Annual averages for the period May to April of the prior and subsequent year.
- 2 CAAQS 24-hour criteria of 27 ug/m³ became effective in 2020. Prior to 2020, the criterion was 28 ug/m³.
- 3 CAAQS annual criterion of 8.8 ug/m³ became effective in 2020. Prior to 2020, the criterion was 10 ug/m³.

Figure 4-1: Summary of Measured TSP Concentrations (Oct 2020 - Apr 2021)

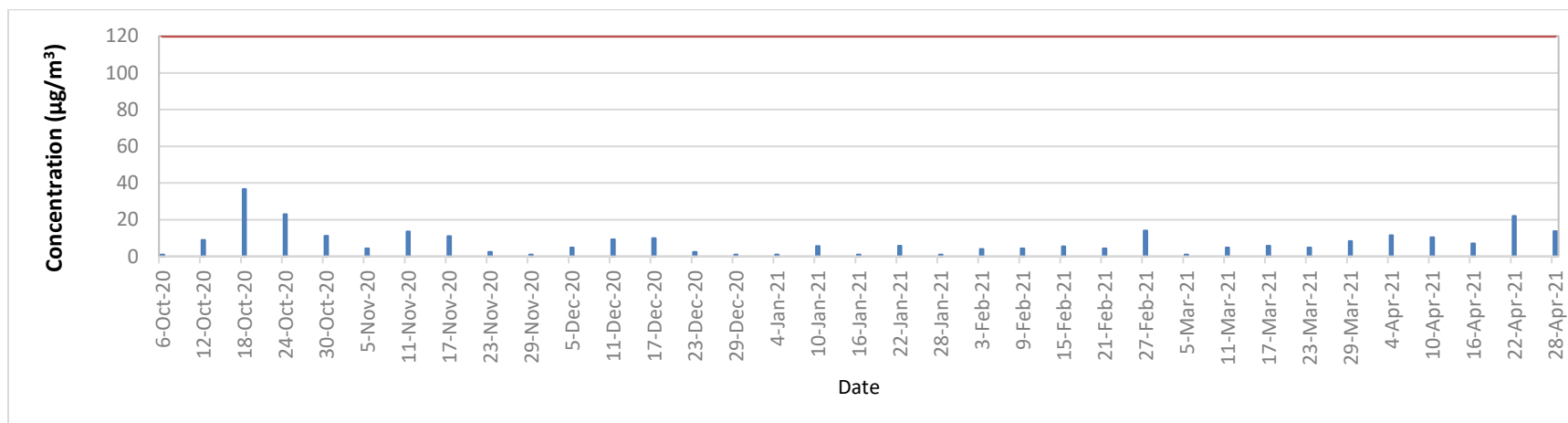


Figure 4-2: Summary of Measured PM₁₀ Concentrations (Oct 2020 - Apr 2021)

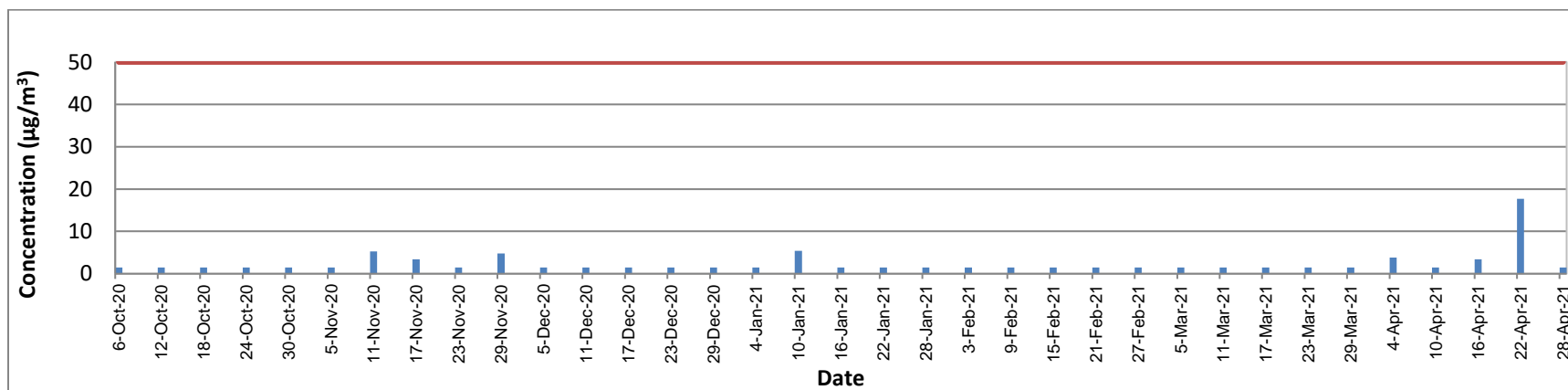
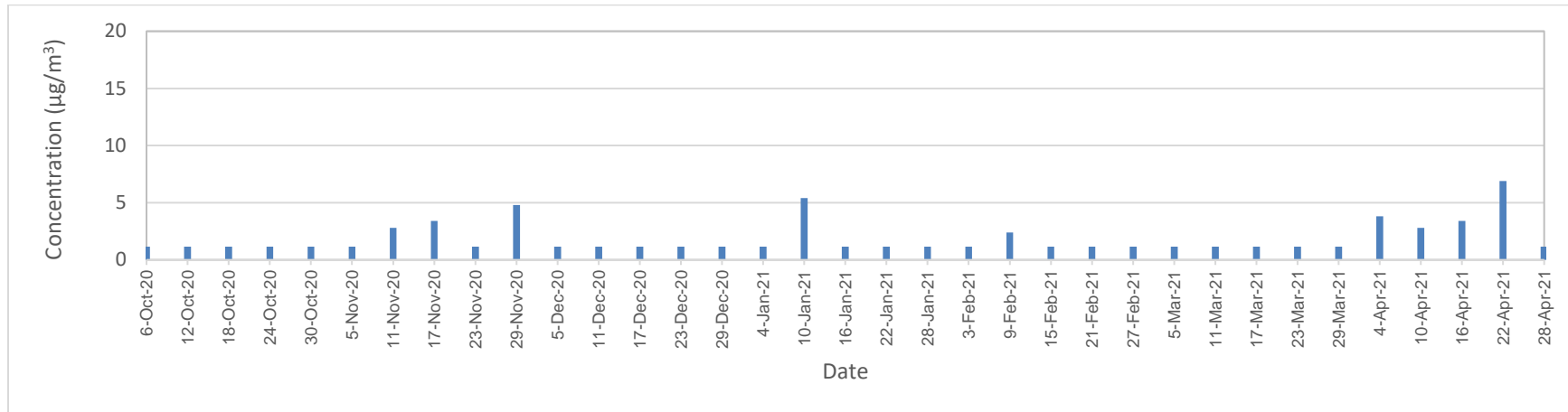


Figure 4-3: Summary of Measured PM_{2.5} Concentrations (Oct 2020 - Apr 2021)



4.3 Meteorology

A summary of the maximum, minimum, and average of the hourly average meteorological parameters in each month of October 2020 to April 2021 is presented in Table 4-8. Hourly meteorological data collected for the same period at the Doris station are presented in Appendix D.

A wind rose showing the measured directionality and speed for the period October 2020 to April 2021 is presented in Figure 4-4. The length of the radial barbs gives the total percent frequency of winds from the indicated direction, while portions of the barbs of different widths indicate the frequency associated with each wind speed category.

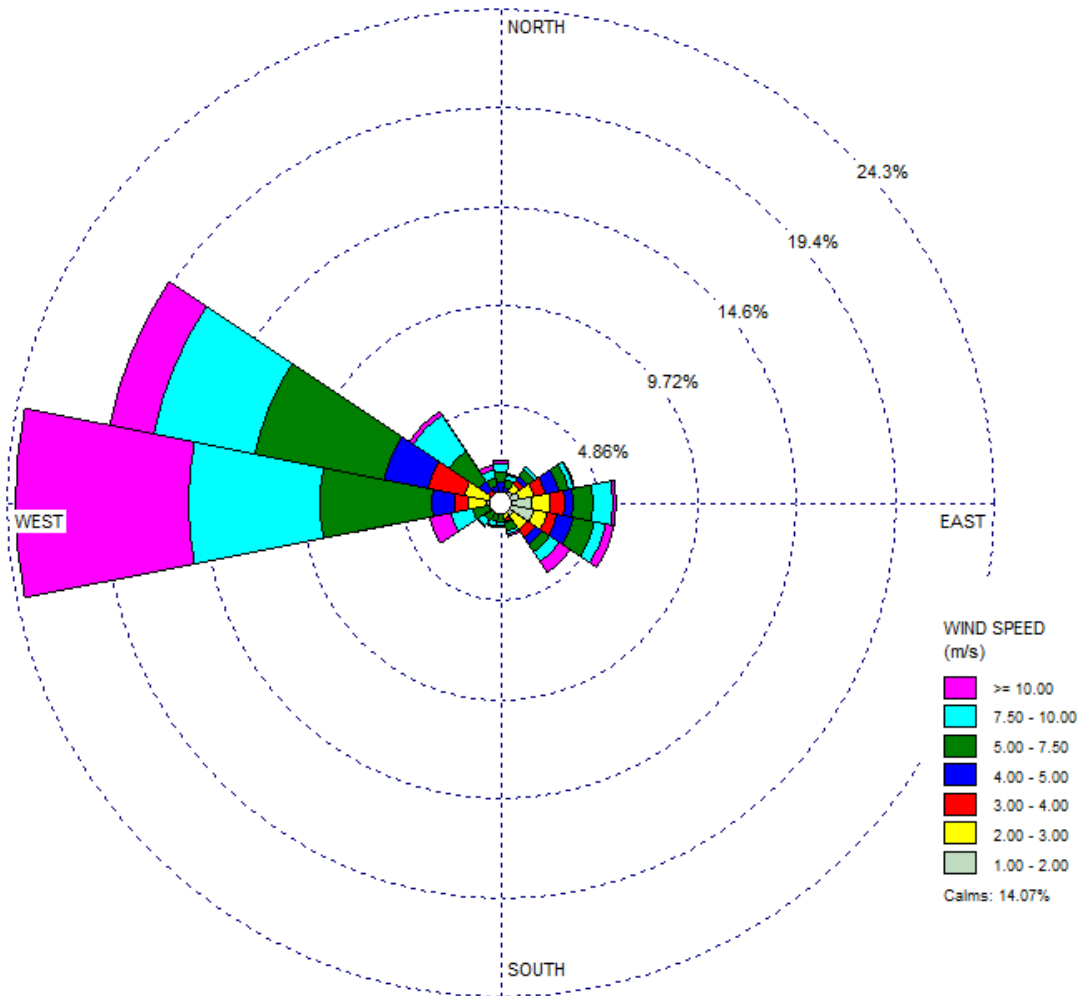
Winds over the seven-month period occurred predominantly from westerly directions. Higher wind speeds occurred most frequently from the west.

Winter 2020-2021 Atmospheric Compliance Monitoring Program Report
Doris and Madrid Projects
Section 4: Monitoring Program Results and Discussion
December 2021

Table 4-8: Summary of Meteorological Measurements (Oct 2020 – Apr 2021)

Date	Average Air Temperature	Minimum Daily Air Temperature	Maximum Daily Air Temperature	Absolute Minimum Temperature	Absolute Maximum Temperature	Average Wind Speed	Maximum Instantaneous Wind Speed	Time of Maximum Instantaneous Wind Speed	Total Precipitation	Total Rainfall	Total Snow-Water Equivalent (SWE)	Average Relative Humidity	Average Solar Radiation	Total Bright Sunshine Hours	Station Pressure
(m-y)	(°C)	(°C)	(°C)	(°C)	(°C)	(m/s)	(m/s)	(mm/dd/yyyy h:m)	(mm)	(mm)	(mm)	(%)	(W/m ²)	(hr)	(kPa)
Oct-20	-4.9	-6.8	-3.1	-29.9	2.6	5.6	18.8	10/13/2020 21:45	25.0	0.0	25.0	88.5	22.3	23.0	100.6
Nov-20	-19.0	-23.6	-14.7	-32.9	-2.7	4.7	23.5	11/10/2020 14:13	7.1	0.0	7.1	83.6	3.8	0.0	100.3
Dec-20	-24.5	-28.1	-20.5	-40.0	-0.6	5.9	23.9	12/4/2020 5:08	12.6	0.0	12.6	80.2	0.3	0.0	100.5
Jan-21	-26.1	-29.6	-22.3	-36.8	-12.5	4.7	18.0	1/14/2021 10:19	17.2	0.0	17.2	78.9	2.4	0	101.0
Feb-21	-30.5	-33.7	-27.3	-43.0	-15.2	7.6	22.1	2/28/2021 15:46	16.3	0.0	16.3	73.1	22.7	39	100.2
Mar-21	-27.4	-31.2	-23.6	-41.3	-10.6	5.5	21.1	3/5/2021 20:06	21.0	0.0	21.0	73.7	95.8	239	101.2
Apr-21	-18.7	-23.1	-14.3	-37.4	-1.3	5.7	20.1	4/19/2021 8:10	18.4	0.0	18.4	81.0	190.7	349	101.6
Average	-21.6	-25.2	-18.0	-37.3	-5.7	5.6	21.1		16.8	0.0	16.8	79.9	48.3	92.9	100.8
Maximum	-4.9	-6.8	-3.1	-29.9	2.6	7.6	23.9		25.0	0.0	25.0	88.5	190.7	349.0	101.6
Minimum	-30.5	-33.7	-27.3	-43.0	-15.2	4.7	18.0		7.1	0.0	7.1	73.1	0.3	0.0	100.2
Total									117.6	0.0	117.6				

Figure 4-4: Wind Rose for October 2020 to April 2021



5 CONCLUSIONS

This report presents the results of ambient air quality, dustfall, and meteorological monitoring conducted at the Doris and Madrid Sites (the Sites) from October 2020 to April 2021 as outlined under the Air Quality Management Plan (AQMP; TMAC 2016, 2019). To calculate annual average concentrations for requisite parameters, data from May to September 2020 (already reported by Agnico Eagle in the Q1-Q3 2020 Ambient Monitoring Report (Nunami Stantec, 2021)) was also utilized and are included in this report.

The Winter 2020-2021 monitoring program included the following:

- Snow core sampling for dustfall at six locations in the vicinity of the Doris Site and at nine locations in the vicinity of the Madrid Site utilizing snow cores over the period October 6, 2020 to May 6-15, 2021.
- Monitoring of Total Suspended Particulate (TSP), particulate less than 10-microns (PM_{10}) and particulate less than 2.5 microns ($PM_{2.5}$) using Partisol Samplers at one location at the Doris site.
- Meteorological monitoring for wind speed, wind direction, temperature, relative humidity, snowfall, rainfall, solar radiation, and barometric pressure at one location. The meteorological data were used in the interpretation of the air quality measurements.

The main results and findings of the report are presented below.

Snow Core Dustfall Sampling – Doris Site

- Dustfall levels estimated from the snow core sampling ranged from 0.5 mg/100-cm²/30-days (at TIA-DF2) to 83.7 mg/100-cm²/30-days (TIA-DF1).
- Estimated dustfall levels exceeded the AAAQO of 53 mg/100-cm²/30-days for residential and recreational areas at TIA-DF1, which is consistent with model predictions in close proximity to the TIA.
- The dustfall levels at other stations were below the residential and recreational AAAQO and all stations were less than the AAAQO of 158 mg/100-cm²/30-days for commercial and industrial areas.

Snow Core Dustfall Sampling – Madrid Site

- Dustfall levels estimated from the snow core sampling ranged from 1.6 mg/100-cm²/30-days (at MDF05) to 10.3 mg/100-cm²/30-days (at MDF07).
- All measured dustfall levels were less than the AAAQO of 53 mg/100-cm²/30-days for residential and recreational areas and less than the AAAQO of 158 mg/100-cm²/30-days for commercial and industrial areas.
- The dustfall rates from all Madrid Site monitoring stations were less than their maximum predicted dustfall level at each location in the 2017 FEIS modelling.

Particulate Monitoring

- The maximum measured 24-hour average TSP concentration was $36.7 \mu\text{g}/\text{m}^3$ which is 31% of the applicable GN air quality objective. This concentration is below the maximum predicted TSP concentration in the 2017 FEIS of $69.9 \mu\text{g}/\text{m}^3$.
- The annual geometric mean of the measured TSP concentrations for the period May 2020 to April 2021 was $5.2 \mu\text{g}/\text{m}^3$ which is 9% of the applicable GN annual objective.
- The maximum measured 24-hour average PM_{10} concentration in the October 2021 to April 2021 period was $17.7 \mu\text{g}/\text{m}^3$ which is 35% of the applicable GN objective.
- The calculated 98th percentile of the measured 24-hour average $\text{PM}_{2.5}$ concentrations in the one-year period of May 2020 to April 2021 was $6.9 \mu\text{g}/\text{m}^3$ which is below the CAAQS of $27 \mu\text{g}/\text{m}^3$. The annual average of the measured $\text{PM}_{2.5}$ concentrations was $2.2 \mu\text{g}/\text{m}^3$ which is less than the annual CAAQS of $8.8 \mu\text{g}/\text{m}^3$. Assessment with respect to the CAAQS is provided for informational purposes only, as a comparison to the CAAQS requires three calendar years of data.
- The maximum measured PM_{10} and $\text{PM}_{2.5}$ concentrations were below the maximum predicted concentrations in the 2017 FEIS.

6 CLOSURE

This document entitled Winter 2020-2021 Atmospheric Compliance Monitoring Program Report for the Doris and Madrid Projects was prepared by Nunami Stantec Ltd. for the account of Agnico Eagle Mines Ltd. The material in it reflects Nunami Stantec's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Nunami Stantec Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Respectfully Submitted,

NUNAMI STANTEC LIMITED

Gregory Crooks, M.Eng., P.Eng. (Ontario)
Principal, Environmental Services
Tel: (416) 949-2788
Gregory.Crooks@stantec.com

Kimberly Ireland, P.Eng. (Ontario)
Associate, Senior Environmental Engineer
Tel: (905) 381-3279
Kim.Ireland@stantec.com

Marco Quattrociocchi, M.A.Sc., EIT (Ontario)
Air Quality Scientist
Tel: (437) 922-6396
Marco.Quattrociocchi@stantec.com

\\Cd1224-f02\work_group\01609\active\160930343\reports\Winter2020-2021_Report\final\ rpt_160930343_AgnicoEagle_Winter_2020_2021_ambient_20211216.docx

This page intentionally left blank

7 REFERENCES

- Alberta Environment and Parks. 2019. Alberta Ambient Air Quality Objectives and Guidelines Summary. Alberta Environment and Parks. <https://open.alberta.ca/dataset/0d2ad470-117e-410f-ba4f-aa352cb02d4d/resource/4ddd8097-6787-43f3-bb4a-908e20f5e8f1/download/aaqo-summary-jan2019.pdf> (accessed November 2021).
- ASTM. 2010. Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter). Designation D 1739-98 Reapproved 2010, West Conshohocken, PA.
- BC MOE. 2020. The British Columbia Field Sampling Manual Part B Air and Air Emissions Testing. British Columbia Ministry of the Environment: Victoria, BC.
- BC MOE. 2020. British Columbia Ambient Air Quality Objectives. BC Ministry of Environment. https://www2.gov.bc.ca/assets/gov/environment/air-land-water/air/reports-pub/prov_aqo_fact_sheet.pdf (accessed November 2021).
- CALA. 2021. Canadian Association for Laboratory Accreditation Quality Assurance. <http://www.cala.ca>, Ottawa, ON.
- CCME. 2020. Air Quality Report. Canadian Council of Ministers of the Environment. <https://ccme.ca/en/air-quality-report> (accessed November 2021).
- Environment and Climate Change Canada. 2021. National Ambient Air Quality Objectives Pollution Surveillance Program (NAPS). <https://data.ec.gc.ca/data/air/monitor/national-air-pollution-surveillance-naps-program> (accessed November 2021).
- ERM. 2016. Memorandum: Potential Dust Fall Associated with Subaerial Tailings Deposition and Wildlife Habitat Effects at TMAC Doris North Project, Nunavut. Prepared for TMAC Resources Inc. by ERM Consultants Canada Ltd.: Vancouver, BC.
- ERM. 2017. Doris Project Winter 2016/2017 Atmospheric Compliance Monitoring Program Report. Prepared for TMAC Resources Inc. by ERM: Yellowknife, NT.
- Government of Nunavut. 2011. Environmental Guideline for Ambient Air Quality. Environmental Protection Service. http://gov.nu.ca/sites/default/files/guideline_-_ambient_air_quality_2011.pdf (accessed November 2021).
- Nunami Stantec 2021. Q1-Q3 2020 Atmospheric Compliance Monitoring Program Report. April 2021. Prepared for TMAC Resources Inc.
- TMAC 2016. Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Water License 2AM-DOH1323. Submitted June 2015 with approval received in 2016.
- TMAC 2017. Final Environmental Impact Statement Madrid-Boston Project. December 2017.

Winter 2020-2021 Atmospheric Compliance Monitoring Program Report

Doris and Madrid Projects

Section 7: References

December 2021

- US EPA. 1999. Compendium Method IO-2.3 Sampling of Ambient Air for PM₁₀ Concentration Using the Rupprecht and Patashnick (R&P) Low Volume Partisol Sampler. Center for Environmental Research Information – Office of Research and Development, Cincinnati, OH.
- US EPA. 2009. Title 40: Protection of Environment Part 58 -Ambient Air Quality Surveillance, Subpart G - Federal Monitoring Appendix E – Probe and Monitoring Path Siting Criteria for Ambient Air Quality Monitoring, Research Triangle Park, NC.

APPENDIX A

Snow Core Laboratory Analysis

This page intentionally left blank



CERTIFICATE OF ANALYSIS

Work Order	: YL2100384
Client	: TMAC Resources Inc.
Contact	: Environmental Site Manager
Address	: Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33 Toronto ON Canada M5H 3M7
Telephone	: ----
Project	: Madrid Dustfall Snowcore
PO	: 4500017096
C-O-C number	: ----
Sampler	: ----
Site	:
Quote number	: Q80651
No. of samples received	: 6
No. of samples analysed	: 6

Page	: 1 of 6
Laboratory	: Yellowknife - Environmental
Account Manager	: Amber Springer
Address	: 314 Old Airport Road, Unit 116 Yellowknife NT Canada X1A 3T3
Telephone	: +1 867 873 5593
Date Samples Received	: 12-May-2021 15:30
Date Analysis Commenced	: 17-May-2021
Issue Date	: 20-May-2021 16:03

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Brieanna Allen	Production/Validation Manager	Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
mg/L	milligrams per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Water samples for total mercury analysis not submitted in glass or PTFE container with HCl preservative. Results may be biased low.



Analytical Results

Sub-Matrix: Water					Client sample ID	M-DF02-SNOW	M-DF03-SNOW	M-DF06-SNOW	M-DF07-SNOW	M-DF08-SNOW
(Matrix: Water)										
Client sampling date / time										
Analyte	CAS Number	Method	LOR	Unit	YL2100384-001	YL2100384-002	YL2100384-003	YL2100384-004	YL2100384-005	
					Result	Result	Result	Result	Result	
Physical Tests										
hardness (as CaCO3), from total Ca/Mg	----	EC100A	0.60	mg/L	4.53	4.55	5.24	5.28	5.24	
solids, total dissolved [TDS]	----	E162	10	mg/L	13	14	<10	19	11	
solids, total suspended [TSS]	----	E160-H	3.0	mg/L	4.8	3.8	15.1	11.5	17.1	
Anions and Nutrients										
ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0299	0.0244	0.0063	0.0427	0.0173	
bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
chloride	16887-00-6	E235.Cl	0.50	mg/L	7.84	8.34	2.05	5.43	2.80	
fluoride	16984-48-8	E235.F	0.020	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	
nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0533	0.0418	0.0511	0.0886	0.0564	
nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	0.41	0.37	<0.30	0.39	0.36	
Total Metals										
aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0420	0.0473	0.238	0.116	0.130	
antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
arsenic, total	7440-38-2	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
barium, total	7440-39-3	E420	0.00010	mg/L	0.00035	0.00033	0.00044	0.00064	0.00055	
beryllium, total	7440-41-7	E420	0.000100	mg/L	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	
bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
boron, total	7440-42-8	E420	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000053	<0.0000050	
calcium, total	7440-70-2	E420	0.050	mg/L	0.505	0.398	1.29	1.10	1.46	
cesium, total	7440-46-2	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0.00074	<0.00050	<0.00050	
cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	<0.00010	0.00022	0.00012	0.00014	
copper, total	7440-50-8	E420	0.00050	mg/L	<0.00050	0.00053	0.00076	<0.00050	0.00062	
iron, total	7439-89-6	E420	0.010	mg/L	0.065	0.049	0.428	0.218	0.239	
lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
lithium, total	7439-93-2	E420	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
magnesium, total	7439-95-4	E420	0.0050	mg/L	0.794	0.863	0.491	0.614	0.386	
manganese, total	7439-96-5	E420	0.00010	mg/L	0.00488	0.00252	0.0233	0.0182	0.0185	



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	M-DF02-SNOW	M-DF03-SNOW	M-DF06-SNOW	M-DF07-SNOW	M-DF08-SNOW
Client sampling date / time					11-May-2021 09:45	11-May-2021 10:00	10-May-2021 14:10	10-May-2021 14:05	10-May-2021 14:00	
Analyte	CAS Number	Method	LOR	Unit	YL2100384-001	YL2100384-002	YL2100384-003	YL2100384-004	YL2100384-005	
					Result	Result	Result	Result	Result	
Total Metals										
mercury, total	7439-97-6	E508	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
molybdenum, total	7439-98-7	E420	0.000050	mg/L	<0.000050	0.000057	0.000164	<0.000050	0.000584	
nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	<0.00050	0.00051	<0.00050	<0.00050	
phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	0.123	<0.050	<0.050	
potassium, total	7440-09-7	E420	0.050	mg/L	0.266	0.290	0.332	0.222	0.139	
rubidium, total	7440-17-7	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
silicon, total	7440-21-3	E420	0.10	mg/L	<0.10	0.13	0.33	0.18	0.21	
silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
sodium, total	17341-25-2	E420	0.050	mg/L	3.47	3.69	1.12	2.57	1.42	
strontium, total	7440-24-6	E420	0.00020	mg/L	0.00473	0.00494	0.00145	0.00358	0.00234	
sulfur, total	7704-34-9	E420	0.50	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	
tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
titanium, total	7440-32-6	E420	0.00030	mg/L	0.00103	0.00219	0.00869	0.00379	0.00298	
tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
uranium, total	7440-61-1	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
vanadium, total	7440-62-2	E420	0.00050	mg/L	<0.00050	<0.00050	0.00127	0.00075	0.00084	
zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	<0.0030	0.0040	0.0036	<0.0030	
zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Water					Client sample ID	M-DF09-SNOW	----	----	----	----
(Matrix: Water)										
					Client sampling date / time	10-May-2021 13:55	----	----	----	----
Analyte	CAS Number	Method	LOR	Unit	YL2100384-006	-----	-----	-----	-----	
					Result	----	----	----	----	
Physical Tests										
hardness (as CaCO3), from total Ca/Mg	----	EC100A	0.60	mg/L	7.82	----	----	----	----	
solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----	----	----	----	
solids, total suspended [TSS]	----	E160-H	3.0	mg/L	25.3	----	----	----	----	
Anions and Nutrients										
ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0346	----	----	----	----	
bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	----	----	----	----	
chloride	16887-00-6	E235.Cl	0.50	mg/L	2.62	----	----	----	----	
fluoride	16984-48-8	E235.F	0.020	mg/L	<0.020	----	----	----	----	
nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0694	----	----	----	----	
nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	----	----	----	----	
sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	<0.30	----	----	----	----	
Total Metals										
aluminum, total	7429-90-5	E420	0.0030	mg/L	0.300	----	----	----	----	
antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	----	----	----	----	
arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00015	----	----	----	----	
barium, total	7440-39-3	E420	0.00010	mg/L	0.00059	----	----	----	----	
beryllium, total	7440-41-7	E420	0.000100	mg/L	<0.000100	----	----	----	----	
bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	----	----	----	----	
boron, total	7440-42-8	E420	0.010	mg/L	<0.010	----	----	----	----	
cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	----	----	----	----	
calcium, total	7440-70-2	E420	0.050	mg/L	2.40	----	----	----	----	
cesium, total	7440-46-2	E420	0.000010	mg/L	<0.000010	----	----	----	----	
chromium, total	7440-47-3	E420	0.00050	mg/L	0.00074	----	----	----	----	
cobalt, total	7440-48-4	E420	0.00010	mg/L	0.00026	----	----	----	----	
copper, total	7440-50-8	E420	0.00050	mg/L	0.00111	----	----	----	----	
iron, total	7439-89-6	E420	0.010	mg/L	0.518	----	----	----	----	
lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	----	----	----	----	
lithium, total	7439-93-2	E420	0.0010	mg/L	<0.0010	----	----	----	----	
magnesium, total	7439-95-4	E420	0.0050	mg/L	0.444	----	----	----	----	
manganese, total	7439-96-5	E420	0.00010	mg/L	0.0247	----	----	----	----	
mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	----	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	M-DF09-SNOW	----	----	----	----
(Matrix: Water)										
					Client sampling date / time	10-May-2021 13:55	----	----	----	----
Analyte	CAS Number	Method	LOR	Unit	YL2100384-006	-----	-----	-----	-----	
					Result	----	----	----	----	
Total Metals										
molybdenum, total	7439-98-7	E420	0.000050	mg/L	<0.000050	----	----	----	----	
nickel, total	7440-02-0	E420	0.00050	mg/L	0.00052	----	----	----	----	
phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	----	----	----	----	
potassium, total	7440-09-7	E420	0.050	mg/L	0.150	----	----	----	----	
rubidium, total	7440-17-7	E420	0.00020	mg/L	<0.00020	----	----	----	----	
selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	----	----	----	----	
silicon, total	7440-21-3	E420	0.10	mg/L	0.42	----	----	----	----	
silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	----	----	----	----	
sodium, total	17341-25-2	E420	0.050	mg/L	1.39	----	----	----	----	
strontium, total	7440-24-6	E420	0.00020	mg/L	0.00287	----	----	----	----	
sulfur, total	7704-34-9	E420	0.50	mg/L	<0.50	----	----	----	----	
tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	----	----	----	----	
thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	----	----	----	----	
thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	----	----	----	----	
tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	----	----	----	----	
titanium, total	7440-32-6	E420	0.00030	mg/L	0.00735	----	----	----	----	
tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	----	----	----	----	
uranium, total	7440-61-1	E420	0.000010	mg/L	<0.000010	----	----	----	----	
vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00164	----	----	----	----	
zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	----	----	----	----	
zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	----	----	----	----	

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: YL2100384	Page	: 1 of 14
Client	: TMAC Resources Inc.	Laboratory	: Yellowknife - Environmental
Contact	: Environmental Site Manager	Account Manager	: Amber Springer
Address	: Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33 Toronto ON Canada M5H 3M7	Address	: 314 Old Airport Road, Unit 116 Yellowknife, Northwest Territories Canada X1A 3T3
Telephone	: ----	Telephone	: +1 867 873 5593
Project	: Madrid Dustfall Snowcore	Date Samples Received	: 12-May-2021 15:30
PO	: 4500017096	Issue Date	: 20-May-2021 16:01
C-O-C number	: ----		
Sampler	: ----		
Site	:		
Quote number	: Q80651		
No. of samples received	: 6		
No. of samples analysed	: 6		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Page : 2 of 14
Work Order : YL2100384
Client : TMAC Resources Inc.
Project : Madrid Dustfall Snowcore



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Total Metals	QC-199562-002	----	phosphorus, total	7723-14-0	E420	132 % ^{MES}	80.0-120%	Recovery greater than upper control limit

Result Qualifiers

Qualifier Description

MES *Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) M-DF02-SNOW	E298	11-May-2021	18-May-2021	----	8 days	✓	18-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) M-DF03-SNOW	E298	11-May-2021	18-May-2021	----	8 days	✓	18-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) M-DF06-SNOW	E298	10-May-2021	18-May-2021	----	9 days	✓	18-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) M-DF07-SNOW	E298	10-May-2021	18-May-2021	----	9 days	✓	18-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) M-DF08-SNOW	E298	10-May-2021	18-May-2021	----	9 days	✓	18-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) M-DF09-SNOW	E298	10-May-2021	18-May-2021	----	9 days	✓	18-May-2021	28 days	1 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE M-DF02-SNOW	E235.Br-L	11-May-2021	----	----	----		18-May-2021	28 days	8 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE M-DF03-SNOW	E235.Br-L	11-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE M-DF06-SNOW	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE M-DF07-SNOW	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE M-DF08-SNOW	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE M-DF09-SNOW	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE M-DF02-SNOW	E235.Cl	11-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE M-DF03-SNOW	E235.Cl	11-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE M-DF06-SNOW	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE M-DF07-SNOW	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE M-DF08-SNOW	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE M-DF09-SNOW	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE M-DF02-SNOW	E235.F	11-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE M-DF03-SNOW	E235.F	11-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE M-DF06-SNOW	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE M-DF07-SNOW	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE M-DF08-SNOW	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE M-DF09-SNOW	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE M-DF02-SNOW	E235.NO3-L	11-May-2021	----	----	----		18-May-2021	3 days	8 days	✖ EHT



Matrix: **Water**

Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE M-DF03-SNOW	E235.NO3-L	11-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE M-DF06-SNOW	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE M-DF07-SNOW	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE M-DF08-SNOW	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE M-DF09-SNOW	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE M-DF02-SNOW	E235.NO2-L	11-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE M-DF03-SNOW	E235.NO2-L	11-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE M-DF06-SNOW	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE M-DF07-SNOW	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	8 days	<div>✖ EHT</div>



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE M-DF08-SNOW	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	8 days	✖ EHT
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE M-DF09-SNOW	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	8 days	✖ EHT
Anions and Nutrients : Sulfate in Water by IC										
HDPE M-DF02-SNOW	E235.SO4	11-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE M-DF03-SNOW	E235.SO4	11-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE M-DF06-SNOW	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE M-DF07-SNOW	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE M-DF08-SNOW	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE M-DF09-SNOW	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE M-DF02-SNOW	E162	11-May-2021	----	----	----		18-May-2021	7 days	8 days	✖ EHT



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TDS by Gravimetry										
HDPE M-DF03-SNOW	E162	11-May-2021	----	----	----		18-May-2021	7 days	8 days	✖ EHT
Physical Tests : TDS by Gravimetry										
HDPE M-DF06-SNOW	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE M-DF07-SNOW	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE M-DF08-SNOW	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE M-DF09-SNOW	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✔
Physical Tests : TSS by Gravimetry										
HDPE M-DF02-SNOW	E160-H	11-May-2021	----	----	----		19-May-2021	7 days	8 days	✖ EHT
Physical Tests : TSS by Gravimetry										
HDPE M-DF03-SNOW	E160-H	11-May-2021	----	----	----		19-May-2021	7 days	8 days	✖ EHT
Physical Tests : TSS by Gravimetry										
HDPE M-DF06-SNOW	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✔
Physical Tests : TSS by Gravimetry										
HDPE M-DF07-SNOW	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✔



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TSS by Gravimetry										
HDPE M-DF08-SNOW	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓
Physical Tests : TSS by Gravimetry										
HDPE M-DF09-SNOW	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid) M-DF02-SNOW	E508	11-May-2021	----	----	----		19-May-2021	----	8 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid) M-DF03-SNOW	E508	11-May-2021	----	----	----		19-May-2021	----	8 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid) M-DF06-SNOW	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid) M-DF07-SNOW	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid) M-DF08-SNOW	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid) M-DF09-SNOW	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) M-DF02-SNOW	E420	11-May-2021	----	----	----		18-May-2021	180 days	8 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) M-DF03-SNOW	E420	11-May-2021	----	----	----		18-May-2021	180 days	8 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) M-DF06-SNOW	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) M-DF07-SNOW	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) M-DF08-SNOW	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) M-DF09-SNOW	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓

Legend & Qualifier Definitions

EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Ammonia by Fluorescence	E298	199990	1	19	5.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	199896	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	199897	1	19	5.2	5.0	✔
Fluoride in Water by IC	E235.F	199898	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	199900	1	19	5.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	199899	1	18	5.5	5.0	✔
Sulfate in Water by IC	E235.SO4	199901	1	17	5.8	5.0	✔
TDS by Gravimetry	E162	199352	2	24	8.3	5.0	✔
Total Mercury in Water by CVAAS	E508	200695	2	29	6.9	5.0	✔
Total Metals in Water by CRC ICPMS	E420	199562	1	19	5.2	5.0	✔
TSS by Gravimetry	E160-H	199344	2	38	5.2	5.0	✔
Laboratory Control Samples (LCS)							
Ammonia by Fluorescence	E298	199990	1	19	5.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	199896	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	199897	1	19	5.2	5.0	✔
Fluoride in Water by IC	E235.F	199898	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	199900	1	19	5.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	199899	1	18	5.5	5.0	✔
Sulfate in Water by IC	E235.SO4	199901	1	17	5.8	5.0	✔
TDS by Gravimetry	E162	199352	2	24	8.3	5.0	✔
Total Mercury in Water by CVAAS	E508	200695	2	29	6.9	5.0	✔
Total Metals in Water by CRC ICPMS	E420	199562	1	19	5.2	5.0	✔
TSS by Gravimetry	E160-H	199344	2	38	5.2	5.0	✔
Method Blanks (MB)							
Ammonia by Fluorescence	E298	199990	1	19	5.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	199896	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	199897	1	19	5.2	5.0	✔
Fluoride in Water by IC	E235.F	199898	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	199900	1	19	5.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	199899	1	18	5.5	5.0	✔
Sulfate in Water by IC	E235.SO4	199901	1	17	5.8	5.0	✔
TDS by Gravimetry	E162	199352	2	24	8.3	5.0	✔
Total Mercury in Water by CVAAS	E508	200695	2	29	6.9	5.0	✔
Total Metals in Water by CRC ICPMS	E420	199562	1	19	5.2	5.0	✔
TSS by Gravimetry	E160-H	199344	2	38	5.2	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	199990	1	19	5.2	5.0	✔



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Matrix Spikes (MS) - Continued							
Bromide in Water by IC (Low Level)	E235.Br-L	199896	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	199897	1	19	5.2	5.0	✔
Fluoride in Water by IC	E235.F	199898	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	199900	1	19	5.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	199899	1	18	5.5	5.0	✔
Sulfate in Water by IC	E235.SO4	199901	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	200695	2	29	6.9	5.0	✔
Total Metals in Water by CRC ICPMS	E420	199562	1	19	5.2	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
TSS by Gravimetry	E160-H Vancouver - Environmental	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at $104 \pm 1^\circ\text{C}$, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
TDS by Gravimetry	E162 Vancouver - Environmental	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.
Bromide in Water by IC (Low Level)	E235.Br-L Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chloride in Water by IC	E235.Cl Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Fluoride in Water by IC	E235.F Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC (Low Level)	E235.NO2-L Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC (Low Level)	E235.NO3-L Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Ammonia by Fluorescence	E298 Vancouver - Environmental	Water	J. Environ. Monit., 2005, 7, 37-42 (mod)	Ammonia in water is analyzed by flow-injection analysis with fluorescence detection after reaction with orthophthaldialdehyde (OPA).



<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Total Metals in Water by CRC ICPMS	E420 Vancouver - Environmental	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 Vancouver - Environmental	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
Hardness (Calculated) from Total Ca/Mg	EC100A Vancouver - Environmental	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations. Hardness from total Ca/Mg is normally comparable to Dissolved Hardness in non-turbid waters.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Preparation for Ammonia	EP298 Vancouver - Environmental	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.

QUALITY CONTROL REPORT

Work Order : **YL2100384**

Page : 1 of 11

Client : TMAC Resources Inc.
Contact : Environmental Site Manager
Address : Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33
 Toronto ON Canada M5H 3M7
Telephone : ----
Project : Madrid Dustfall Snowcore
PO : 4500017096
C-O-C number : ----
Sampler : ----
Site :
Quote number : Q80651
No. of samples received : 6
No. of samples analysed : 6

Laboratory : Yellowknife - Environmental
Account Manager : Amber Springer
Address : 314 Old Airport Road, Unit 116
 Yellowknife, Northwest Territories Canada X1A 3T3
Telephone : +1 867 873 5593
Date Samples Received : 12-May-2021 15:30
Date Analysis Commenced : 17-May-2021
Issue Date : 20-May-2021 16:01

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits
- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Brianna Allen	Production/Validation Manager	Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percentage Difference

= Indicates a QC result that did not meet the ALS DQO.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 199344)											
VA21A9215-002	Anonymous	solids, total suspended [TSS]	----	E160-H	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 199352)											
VA21A9190-004	Anonymous	solids, total dissolved [TDS]	----	E162	20	mg/L	1170	1280	9.03%	20%	----
Physical Tests (QC Lot: 200621)											
VA21A9000-001	Anonymous	solids, total dissolved [TDS]	----	E162	20	mg/L	212	216	1.86%	20%	----
Physical Tests (QC Lot: 200663)											
KS2101423-001	Anonymous	solids, total suspended [TSS]	----	E160-H	3.0	mg/L	9.2	9.6	0.4	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 199896)											
WR2100439-021	Anonymous	bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 199897)											
WR2100439-021	Anonymous	chloride	16887-00-6	E235.Cl	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 199898)											
WR2100439-021	Anonymous	fluoride	16984-48-8	E235.F	0.020	mg/L	0.030	0.028	0.001	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 199899)											
WR2100439-021	Anonymous	nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 199900)											
WR2100439-021	Anonymous	nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0975	0.0981	0.679%	20%	----
Anions and Nutrients (QC Lot: 199901)											
WR2100439-021	Anonymous	sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	105	105	0.00455%	20%	----
Anions and Nutrients (QC Lot: 199990)											
KS2101425-001	Anonymous	ammonia, total (as N)	7664-41-7	E298	0.250	mg/L	21.6	21.5	0.367%	20%	----
Total Metals (QC Lot: 199562)											
YL2100376-001	Anonymous	aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0107	0.0117	0.0010	Diff <2x LOR	----
		antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00029	0.00030	0.00001	Diff <2x LOR	----
		barium, total	7440-39-3	E420	0.00010	mg/L	0.00253	0.00258	1.85%	20%	----
		beryllium, total	7440-41-7	E420	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	----
		bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		boron, total	7440-42-8	E420	0.010	mg/L	0.026	0.026	0.0007	Diff <2x LOR	----
		cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		calcium, total	7440-70-2	E420	0.050	mg/L	9.30	8.99	3.38%	20%	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 199562) - continued											
YL2100376-001	Anonymous	cesium, total	7440-46-2	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		copper, total	7440-50-8	E420	0.00050	mg/L	0.00245	0.00249	0.00004	Diff <2x LOR	----
		iron, total	7439-89-6	E420	0.010	mg/L	0.104	0.096	8.14%	20%	----
		lead, total	7439-92-1	E420	0.000050	mg/L	0.000302	0.000317	0.000015	Diff <2x LOR	----
		lithium, total	7439-93-2	E420	0.0010	mg/L	0.0040	0.0039	0.0001	Diff <2x LOR	----
		magnesium, total	7439-95-4	E420	0.0050	mg/L	7.10	7.33	3.16%	20%	----
		manganese, total	7439-96-5	E420	0.00010	mg/L	0.00984	0.00997	1.22%	20%	----
		molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.000200	0.000190	0.000010	Diff <2x LOR	----
		nickel, total	7440-02-0	E420	0.00050	mg/L	0.00069	0.00071	0.00002	Diff <2x LOR	----
		phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	0.059	0.009	Diff <2x LOR	----
		potassium, total	7440-09-7	E420	0.050	mg/L	2.64	2.68	1.71%	20%	----
		rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00165	0.00165	0.000002	Diff <2x LOR	----
		selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	0.000054	0.000004	Diff <2x LOR	----
		silicon, total	7440-21-3	E420	0.10	mg/L	1.42	1.42	0.166%	20%	----
		silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		sodium, total	17341-25-2	E420	0.050	mg/L	32.9	34.3	4.15%	20%	----
		strontium, total	7440-24-6	E420	0.00020	mg/L	0.0444	0.0453	2.09%	20%	----
		sulfur, total	7704-34-9	E420	0.50	mg/L	0.89	0.98	0.08	Diff <2x LOR	----
		tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		titanium, total	7440-32-6	E420	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		uranium, total	7440-61-1	E420	0.000010	mg/L	0.000037	0.000038	0.000001	Diff <2x LOR	----
		vanadium, total	7440-62-2	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	0.0033	0.0003	Diff <2x LOR	----
		zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Total Metals (QC Lot: 200695)											
VA21A9066-001	Anonymous	mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Total Metals (QC Lot: 200696)											
YL2100384-003	M-DF06-SNOW	mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 199344)						
solids, total suspended [TSS]	----	E160-H	3	mg/L	<3.0	----
Physical Tests (QCLot: 199352)						
solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 200621)						
solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 200663)						
solids, total suspended [TSS]	----	E160-H	3	mg/L	<3.0	----
Anions and Nutrients (QCLot: 199896)						
bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 199897)						
chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 199898)						
fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 199899)						
nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 199900)						
nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 199901)						
sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 199990)						
ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Total Metals (QCLot: 199562)						
aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	----
bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	----
boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	----
chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 199562) - continued						
cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	----
magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	----
potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	----
selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	----
silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
sodium, total	17341-25-2	E420	0.05	mg/L	<0.050	----
strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	----
sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	----
tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	----
thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	----
thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	----
tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----
titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
tungsten, total	7440-33-7	E420	0.0001	mg/L	<0.00010	----
uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	----
zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
zirconium, total	7440-67-7	E420	0.0002	mg/L	<0.00020	----
Total Metals (QCLot: 200695)						
mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 200696)						
mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 199344)									
solids, total suspended [TSS]	----	E160-H	3	mg/L	150 mg/L	96.8	85.0	115	----
Physical Tests (QCLot: 199352)									
solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	99.2	85.0	115	----
Physical Tests (QCLot: 200621)									
solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	91.3	85.0	115	----
Physical Tests (QCLot: 200663)									
solids, total suspended [TSS]	----	E160-H	3	mg/L	150 mg/L	88.0	85.0	115	----
Anions and Nutrients (QCLot: 199896)									
bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	106	85.0	115	----
Anions and Nutrients (QCLot: 199897)									
chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	104	90.0	110	----
Anions and Nutrients (QCLot: 199898)									
fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	104	90.0	110	----
Anions and Nutrients (QCLot: 199899)									
nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	104	90.0	110	----
Anions and Nutrients (QCLot: 199900)									
nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	103	90.0	110	----
Anions and Nutrients (QCLot: 199901)									
sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	105	90.0	110	----
Anions and Nutrients (QCLot: 199990)									
ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	98.2	85.0	115	----
Total Metals (QCLot: 199562)									
aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	106	80.0	120	----
antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	110	80.0	120	----
arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	102	80.0	120	----
barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	98.9	80.0	120	----
beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	100.0	80.0	120	----
bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	111	80.0	120	----
boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	99.3	80.0	120	----
cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	104	80.0	120	----
calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	99.8	80.0	120	----
cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	102	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 199562) - continued									
chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	103	80.0	120	----
cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	102	80.0	120	----
iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	101	80.0	120	----
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	98.2	80.0	120	----
magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	98.5	80.0	120	----
manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	102	80.0	120	----
nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	103	80.0	120	----
phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	# 132	80.0	120	MES
potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	104	80.0	120	----
rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	105	80.0	120	----
selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	101	80.0	120	----
silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	106	80.0	120	----
silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	99.1	80.0	120	----
sodium, total	17341-25-2	E420	0.05	mg/L	50 mg/L	103	80.0	120	----
strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	110	80.0	120	----
sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	100	80.0	120	----
tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	104	80.0	120	----
thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	104	80.0	120	----
thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	93.6	80.0	120	----
tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	101	80.0	120	----
titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	94.9	80.0	120	----
tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	98.6	80.0	120	----
uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	100	80.0	120	----
vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	103	80.0	120	----
zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	100.0	80.0	120	----
zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	96.9	80.0	120	----
Total Metals (QCLot: 200695)									
mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	94.1	80.0	120	----
Total Metals (QCLot: 200696)									
mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	95.3	80.0	120	----



Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 199896)										
WR2100439-022	Anonymous	bromide	24959-67-9	E235.Br-L	0.514 mg/L	0.5 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 199897)										
WR2100439-022	Anonymous	chloride	16887-00-6	E235.Cl	102 mg/L	100 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 199898)										
WR2100439-022	Anonymous	fluoride	16984-48-8	E235.F	1.06 mg/L	1 mg/L	106	75.0	125	----
Anions and Nutrients (QCLot: 199899)										
WR2100439-022	Anonymous	nitrite (as N)	14797-65-0	E235.NO2-L	0.510 mg/L	0.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 199900)										
WR2100439-022	Anonymous	nitrate (as N)	14797-55-8	E235.NO3-L	2.55 mg/L	2.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 199901)										
WR2100439-022	Anonymous	sulfate (as SO4)	14808-79-8	E235.SO4	100 mg/L	100 mg/L	100	75.0	125	----
Anions and Nutrients (QCLot: 199990)										
VA21A5290-001	Anonymous	ammonia, total (as N)	7664-41-7	E298	0.201 mg/L	0.2 mg/L	100	75.0	125	----
Total Metals (QCLot: 199562)										
YL2100376-001	Anonymous	aluminum, total	7429-90-5	E420	0.200 mg/L	0.2 mg/L	100	70.0	130	----
		antimony, total	7440-36-0	E420	0.0195 mg/L	0.02 mg/L	97.5	70.0	130	----
		arsenic, total	7440-38-2	E420	0.0196 mg/L	0.02 mg/L	98.3	70.0	130	----
		barium, total	7440-39-3	E420	0.0186 mg/L	0.02 mg/L	92.9	70.0	130	----
		beryllium, total	7440-41-7	E420	0.0398 mg/L	0.04 mg/L	99.5	70.0	130	----
		bismuth, total	7440-69-9	E420	0.0100 mg/L	0.01 mg/L	100	70.0	130	----
		boron, total	7440-42-8	E420	0.100 mg/L	0.1 mg/L	99.8	70.0	130	----
		cadmium, total	7440-43-9	E420	0.00407 mg/L	0.004 mg/L	102	70.0	130	----
		calcium, total	7440-70-2	E420	ND mg/L	4 mg/L	ND	70.0	130	----
		cesium, total	7440-46-2	E420	0.0104 mg/L	0.01 mg/L	104	70.0	130	----
		chromium, total	7440-47-3	E420	0.0395 mg/L	0.04 mg/L	98.8	70.0	130	----
		cobalt, total	7440-48-4	E420	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----
		copper, total	7440-50-8	E420	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----
		iron, total	7439-89-6	E420	1.94 mg/L	2 mg/L	97.2	70.0	130	----
		lead, total	7439-92-1	E420	0.0188 mg/L	0.02 mg/L	93.8	70.0	130	----



Sub-Matrix: **Water**

Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 199562) - continued										
YL2100376-001	Anonymous	lithium, total	7439-93-2	E420	0.0968 mg/L	0.1 mg/L	96.8	70.0	130	----
		magnesium, total	7439-95-4	E420	ND mg/L	1 mg/L	ND	70.0	130	----
		manganese, total	7439-96-5	E420	0.0195 mg/L	0.02 mg/L	97.5	70.0	130	----
		molybdenum, total	7439-98-7	E420	0.0194 mg/L	0.02 mg/L	97.0	70.0	130	----
		nickel, total	7440-02-0	E420	0.0390 mg/L	0.04 mg/L	97.6	70.0	130	----
		phosphorus, total	7723-14-0	E420	10.8 mg/L	10 mg/L	108	70.0	130	----
		potassium, total	7440-09-7	E420	4.05 mg/L	4 mg/L	101	70.0	130	----
		rubidium, total	7440-17-7	E420	0.0192 mg/L	0.02 mg/L	96.2	70.0	130	----
		selenium, total	7782-49-2	E420	0.0394 mg/L	0.04 mg/L	98.6	70.0	130	----
		silicon, total	7440-21-3	E420	9.22 mg/L	10 mg/L	92.2	70.0	130	----
		silver, total	7440-22-4	E420	0.00384 mg/L	0.004 mg/L	95.9	70.0	130	----
		sodium, total	17341-25-2	E420	ND mg/L	2 mg/L	ND	70.0	130	----
		strontium, total	7440-24-6	E420	ND mg/L	0.02 mg/L	ND	70.0	130	----
		sulfur, total	7704-34-9	E420	20.6 mg/L	20 mg/L	103	70.0	130	----
		tellurium, total	13494-80-9	E420	0.0388 mg/L	0.04 mg/L	96.9	70.0	130	----
		thallium, total	7440-28-0	E420	0.00361 mg/L	0.004 mg/L	90.3	70.0	130	----
		thorium, total	7440-29-1	E420	0.0204 mg/L	0.02 mg/L	102	70.0	130	----
		tin, total	7440-31-5	E420	0.0194 mg/L	0.02 mg/L	96.9	70.0	130	----
		titanium, total	7440-32-6	E420	0.0375 mg/L	0.04 mg/L	93.8	70.0	130	----
		tungsten, total	7440-33-7	E420	0.0187 mg/L	0.02 mg/L	93.4	70.0	130	----
		uranium, total	7440-61-1	E420	0.00379 mg/L	0.004 mg/L	94.8	70.0	130	----
		vanadium, total	7440-62-2	E420	0.1000 mg/L	0.1 mg/L	100.0	70.0	130	----
		zinc, total	7440-66-6	E420	0.388 mg/L	0.4 mg/L	97.0	70.0	130	----
		zirconium, total	7440-67-7	E420	0.0385 mg/L	0.04 mg/L	96.3	70.0	130	----
Total Metals (QCLot: 200695)										
VA21A9066-002	Anonymous	mercury, total	7439-97-6	E508	0.0000965 mg/L	0.0001 mg/L	96.5	70.0	130	----
Total Metals (QCLot: 200696)										
YL2100384-004	M-DF07-SNOW	mercury, total	7439-97-6	E508	0.0000952 mg/L	0.0001 mg/L	95.2	70.0	130	----

GENF 18.01 Front

11/11/12 12:30 3.1

11/11/12 12:30 3.1

GENF 1801 Front
Jk 15 May 6, 6, 10C 12:15 PM
Ice packs



CERTIFICATE OF ANALYSIS

Work Order	: YL2100385
Client	: TMAC Resources Inc.
Contact	: Environmental Site Manager
Address	: Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33 Toronto ON Canada M5H 3M7
Telephone	: ----
Project	: Doris Snowcare Dustfall
PO	: 4500017096
C-O-C number	: ----
Sampler	: AH
Site	:
Quote number	: Q80651
No. of samples received	: 8
No. of samples analysed	: 8

Page	: 1 of 6
Laboratory	: Yellowknife - Environmental
Account Manager	: Amber Springer
Address	: 314 Old Airport Road, Unit 116 Yellowknife NT Canada X1A 3T3
Telephone	: +1 867 873 5593
Date Samples Received	: 12-May-2021 15:30
Date Analysis Commenced	: 17-May-2021
Issue Date	: 21-May-2021 12:40

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Angela Ren	Team Leader - Metals	Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Lindsay Gung	Supervisor - Water Chemistry	Inorganics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
mg/L	milligrams per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Water samples for total mercury analysis not submitted in glass or PTFE container with HCl preservative. Results may be biased low.

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
HTP	Sample preparation or preservation hold time was exceeded.
RRV	Reported result verified by repeat analysis.



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	----	----	----	----	----
						CONTROLDF-SN OW	TIADF1-SNOW	TIADF2-SNOW	TIADF3-SNOW	DFA1-SNOW
Client sampling date / time						10-May-2021 13:50	10-May-2021 13:55	10-May-2021 14:25	10-May-2021 14:15	10-May-2021 14:18
Analyte	CAS Number	Method	LOR	Unit	YL2100385-001	YL2100385-002	YL2100385-003	YL2100385-004	YL2100385-005	
					Result	Result	Result	Result	Result	
Physical Tests										
hardness (as CaCO ₃), from total Ca/Mg	----	EC100A	0.60	mg/L	4.59	32.0	2.59	3.03	5.38	
solids, total dissolved [TDS]	----	E162	10	mg/L	15	185	<10	14	<10	
solids, total suspended [TSS]	----	E160-H	3.0	mg/L	4.1	54.7	<3.0	<3.0	3.3	
Anions and Nutrients										
ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0191	0.128 ^{HTP}	0.0507 ^{HTP}	0.0231 ^{HTP, RRV}	0.100 ^{HTP}	
bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	0.192	<0.050	<0.050	<0.050	
chloride	16887-00-6	E235.Cl	0.50	mg/L	6.30	51.0	3.75	5.64	4.04	
fluoride	16984-48-8	E235.F	0.020	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	
nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.302	0.257	0.0713	0.0583	0.117	
nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	
sulfate (as SO ₄)	14808-79-8	E235.SO4	0.30	mg/L	0.40	10.2	0.55	0.38	0.35	
Total Metals										
aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0252	0.380	0.0458	0.0314	0.265	
antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
arsenic, total	7440-38-2	E420	0.00010	mg/L	<0.00010	0.00096	0.00015	<0.00010	0.00036	
barium, total	7440-39-3	E420	0.00010	mg/L	0.00058	0.00215	0.00043	0.00101	0.00068	
beryllium, total	7440-41-7	E420	0.000100	mg/L	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	
bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
boron, total	7440-42-8	E420	0.010	mg/L	<0.010	0.017	<0.010	<0.010	<0.010	
cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	0.0000058	<0.0000050	0.0000071	0.0000181	
calcium, total	7440-70-2	E420	0.050	mg/L	0.727	6.18	0.451	0.430	1.20	
cesium, total	7440-46-2	E420	0.000010	mg/L	<0.000010	0.000013	<0.000010	<0.000010	<0.000010	
chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	0.00099	<0.00050	<0.00050	0.00087	
cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	0.00049	<0.00010	<0.00010	0.00033	
copper, total	7440-50-8	E420	0.00050	mg/L	<0.00050	0.00276	<0.00050	0.00068	0.00227	
iron, total	7439-89-6	E420	0.010	mg/L	0.027	1.14	0.110	0.059	0.510	
lead, total	7439-92-1	E420	0.000050	mg/L	0.000069	0.000131	<0.000050	0.000052	0.000152	
lithium, total	7439-93-2	E420	0.0010	mg/L	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	
magnesium, total	7439-95-4	E420	0.0050	mg/L	0.674	4.02	0.356	0.476	0.578	



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	----	----	----	----	----
						CONTROLDF-SN OW	TIADF1-SNOW	TIADF2-SNOW	TIADF3-SNOW	DFA1-SNOW
Client sampling date / time						10-May-2021 13:50	10-May-2021 13:55	10-May-2021 14:25	10-May-2021 14:15	10-May-2021 14:18
Analyte	CAS Number	Method	LOR	Unit	YL2100385-001	YL2100385-002	YL2100385-003	YL2100385-004	YL2100385-005	
					Result	Result	Result	Result	Result	
Total Metals										
manganese, total	7439-96-5	E420	0.00010	mg/L	0.00155	0.0687	0.00576	0.00544	0.0158	
mercury, total	7439-97-6	E508	0.000050	mg/L	<0.000050	0.0000068	<0.000050	<0.000050	<0.000050	
molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.000145	0.000297	<0.000050	<0.000050	0.000109	
nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	0.00156	<0.00050	<0.00050	0.00067	
phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
potassium, total	7440-09-7	E420	0.050	mg/L	0.299	1.43	0.154	0.172	0.162	
rubidium, total	7440-17-7	E420	0.00020	mg/L	<0.00020	0.00063	<0.00020	<0.00020	<0.00020	
selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
silicon, total	7440-21-3	E420	0.10	mg/L	<0.10	0.57	<0.10	<0.10	0.34	
silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	0.000010	<0.000010	<0.000010	<0.000010	
sodium, total	17341-25-2	E420	0.050	mg/L	2.95	28.1	1.88	2.96	1.92	
strontium, total	7440-24-6	E420	0.00020	mg/L	0.00399	0.0344	0.00222	0.00294	0.00289	
sulfur, total	7704-34-9	E420	0.50	mg/L	<0.50	3.50	<0.50	<0.50	<0.50	
tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
titanium, total	7440-32-6	E420	0.00030	mg/L	0.00069	<0.00660 ^{DLM}	0.00213	0.00182	0.0132	
tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
uranium, total	7440-61-1	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
vanadium, total	7440-62-2	E420	0.00050	mg/L	<0.00050	0.00124	<0.00050	<0.00050	0.00122	
zinc, total	7440-66-6	E420	0.0030	mg/L	0.0085	<0.0030	<0.0030	0.0058	0.0086	
zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	0.00028	<0.00020	<0.00020	<0.00020	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	----	----	----	----	----
						BLANKE	BLANKF	TIADF3-SNOW-DUP		
Client sampling date / time						06-May-2021 13:00	06-May-2021 14:30	10-May-2021 14:20	----	----
Analyte	CAS Number	Method	LOR	Unit	YL2100385-006	YL2100385-007	YL2100385-008	-----	-----	-----
					Result	Result	Result	----	----	----
Physical Tests										
hardness (as CaCO ₃), from total Ca/Mg	----	EC100A	0.60	mg/L	<0.60	<0.60	2.89	----	----	----
solids, total dissolved [TDS]	----	E162	10	mg/L	<10	<10	14	----	----	----
solids, total suspended [TSS]	----	E160-H	3.0	mg/L	<3.0	<3.0	<3.0	----	----	----
Anions and Nutrients										
ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	<0.0050	<0.0050	<0.0050 ^{HTP, RRV}	----	----	----
bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	<0.050	----	----	----
chloride	16887-00-6	E235.Cl	0.50	mg/L	<0.50	<0.50	4.91	----	----	----
fluoride	16984-48-8	E235.F	0.020	mg/L	<0.020	<0.020	<0.020	----	----	----
nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0060 ^{RRV}	<0.0050	0.207	----	----	----
nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	<0.0010	----	----	----
sulfate (as SO ₄)	14808-79-8	E235.SO4	0.30	mg/L	<0.30	<0.30	0.36	----	----	----
Total Metals										
aluminum, total	7429-90-5	E420	0.0030	mg/L	<0.0030	<0.0030	0.0117	----	----	----
antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	----
arsenic, total	7440-38-2	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	----
barium, total	7440-39-3	E420	0.00010	mg/L	<0.00010	<0.00010	0.00051	----	----	----
beryllium, total	7440-41-7	E420	0.000100	mg/L	<0.000100	<0.000100	<0.000100	----	----	----
bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	----	----	----
boron, total	7440-42-8	E420	0.010	mg/L	<0.010	<0.010	<0.010	----	----	----
cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	----	----	----
calcium, total	7440-70-2	E420	0.050	mg/L	<0.050	<0.050	0.516	----	----	----
cesium, total	7440-46-2	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	----
chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	----
cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	----
copper, total	7440-50-8	E420	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	----
iron, total	7439-89-6	E420	0.010	mg/L	<0.010	<0.010	0.028	----	----	----
lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	----	----	----
lithium, total	7439-93-2	E420	0.0010	mg/L	<0.0010	<0.0010	<0.0010	----	----	----
magnesium, total	7439-95-4	E420	0.0050	mg/L	<0.0050	<0.0050	0.389	----	----	----
manganese, total	7439-96-5	E420	0.00010	mg/L	0.00331 ^{RRV}	<0.00010	0.00575	----	----	----



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	----	----	----	----	----
						BLANKE	BLANKF	TIADF3-SNOW-DUP		
Client sampling date / time						06-May-2021 13:00	06-May-2021 14:30	10-May-2021 14:20	----	----
Analyte	CAS Number	Method	LOR	Unit	YL2100385-006	YL2100385-007	YL2100385-008	-----	-----	
					Result	Result	Result	----	----	
Total Metals										
mercury, total	7439-97-6	E508	0.000050	mg/L	<0.000050	<0.000050	0.000052	----	----	
molybdenum, total	7439-98-7	E420	0.000050	mg/L	<0.000050	<0.000050	0.000076	----	----	
nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	
phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	<0.050	----	----	
potassium, total	7440-09-7	E420	0.050	mg/L	<0.050	<0.050	0.226	----	----	
rubidium, total	7440-17-7	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	----	----	
selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	----	----	
silicon, total	7440-21-3	E420	0.10	mg/L	<0.10	<0.10	<0.10	----	----	
silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	
sodium, total	17341-25-2	E420	0.050	mg/L	<0.050	<0.050	2.65	----	----	
strontium, total	7440-24-6	E420	0.00020	mg/L	<0.00020	<0.00020	0.00231	----	----	
sulfur, total	7704-34-9	E420	0.50	mg/L	<0.50	<0.50	<0.50	----	----	
tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	----	----	
thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	
thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
titanium, total	7440-32-6	E420	0.00030	mg/L	<0.00030	<0.00030	<0.00030	----	----	
tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
uranium, total	7440-61-1	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	
vanadium, total	7440-62-2	E420	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	
zinc, total	7440-66-6	E420	0.0030	mg/L	0.0039 ^{RRV}	0.0030 ^{RRV}	0.0038	----	----	
zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	----	----	

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: YL2100385	Page	: 1 of 17
Client	: TMAC Resources Inc.	Laboratory	: Yellowknife - Environmental
Contact	: Environmental Site Manager	Account Manager	: Amber Springer
Address	: Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33 Toronto ON Canada M5H 3M7	Address	: 314 Old Airport Road, Unit 116 Yellowknife, Northwest Territories Canada X1A 3T3
Telephone	: ----	Telephone	: +1 867 873 5593
Project	: Doris Snowcare Dustfall	Date Samples Received	: 12-May-2021 15:30
PO	: 4500017096	Issue Date	: 21-May-2021 12:40
C-O-C number	: ----		
Sampler	: AH		
Site	:		
Quote number	: Q80651		
No. of samples received	: 8		
No. of samples analysed	: 8		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Summary of Outliers

Outliers : Quality Control Samples

- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Anions and Nutrients	QC-MRG6-2003180 01	----	nitrate (as N)	14797-55-8	E235.NO3-L	0.0175 ^B mg/L	0.005 mg/L	Blank result exceeds permitted value

Result Qualifiers

Qualifier	Description
<i>B</i>	<i>Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.</i>

Laboratory Control Sample (LCS) Recoveries

Total Metals	QC-199562-002	----	phosphorus, total	7723-14-0	E420	132 % ^{MES}	80.0-120%	Recovery greater than upper control limit
--------------	---------------	------	-------------------	-----------	------	----------------------	-----------	--

Result Qualifiers

Qualifier	Description
<i>MES</i>	<i>Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).</i>



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)	E298	06-May-2021	18-May-2021	----	13 days	✓	19-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)	E298	06-May-2021	18-May-2021	----	13 days	✓	19-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)	E298	10-May-2021	18-May-2021	----	9 days	✓	18-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)	E298	10-May-2021	18-May-2021	----	9 days	✓	19-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)	E298	10-May-2021	18-May-2021	----	9 days	✓	19-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)	E298	10-May-2021	18-May-2021	----	9 days	✓	19-May-2021	28 days	1 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)	E298	10-May-2021	18-May-2021	----	9 days	✓	19-May-2021	28 days	1 days	✓



Matrix: **Water**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)	E298	10-May-2021	18-May-2021	----	9 days	✓	19-May-2021	28 days	1 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE	E235.Br-L	06-May-2021	----	----	----		18-May-2021	28 days	13 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE	E235.Br-L	06-May-2021	----	----	----		18-May-2021	28 days	13 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE	E235.Br-L	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE	E235.Cl	06-May-2021	----	----	----		18-May-2021	28 days	13 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE	E235.Cl	06-May-2021	----	----	----		18-May-2021	28 days	13 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE	E235.Cl	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE	E235.F	06-May-2021	----	----	----		18-May-2021	28 days	13 days	✓



Matrix: **Water**

Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE	E235.F	06-May-2021	----	----	----		18-May-2021	28 days	13 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE	E235.F	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	06-May-2021	----	----	----		18-May-2021	3 days	13 days	✖ EHTR
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	06-May-2021	----	----	----		18-May-2021	3 days	13 days	✖ EHTR



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE	E235.NO3-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	06-May-2021	----	----	----		18-May-2021	3 days	13 days	<div>✖ EHTR</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	06-May-2021	----	----	----		18-May-2021	3 days	13 days	<div>✖ EHTR</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>



Matrix: **Water**

Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE	E235.NO2-L	10-May-2021	----	----	----		18-May-2021	3 days	9 days	<div>✖ EHT</div>
Anions and Nutrients : Sulfate in Water by IC										
HDPE	E235.SO4	06-May-2021	----	----	----		18-May-2021	28 days	13 days	<div>✔</div>
Anions and Nutrients : Sulfate in Water by IC										
HDPE	E235.SO4	06-May-2021	----	----	----		18-May-2021	28 days	13 days	<div>✔</div>
Anions and Nutrients : Sulfate in Water by IC										
HDPE	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	9 days	<div>✔</div>
Anions and Nutrients : Sulfate in Water by IC										
HDPE	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	9 days	<div>✔</div>



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE	E235.SO4	10-May-2021	----	----	----		18-May-2021	28 days	9 days	✓
Physical Tests : TDS by Gravimetry										
HDPE	E162	06-May-2021	----	----	----		18-May-2021	7 days	12 days	✖ EHT
Physical Tests : TDS by Gravimetry										
HDPE	E162	06-May-2021	----	----	----		18-May-2021	7 days	12 days	✖ EHT
Physical Tests : TDS by Gravimetry										
HDPE	E162	10-May-2021	----	----	----		17-May-2021	7 days	7 days	✓
Physical Tests : TDS by Gravimetry										
HDPE	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TDS by Gravimetry										
HDPE	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE	E162	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓
Physical Tests : TSS by Gravimetry										
HDPE	E160-H	06-May-2021	----	----	----		18-May-2021	7 days	12 days	✖ EHT
Physical Tests : TSS by Gravimetry										
HDPE	E160-H	06-May-2021	----	----	----		18-May-2021	7 days	12 days	✖ EHT
Physical Tests : TSS by Gravimetry										
HDPE	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TSS by Gravimetry										
HDPE	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓
Physical Tests : TSS by Gravimetry										
HDPE	E160-H	10-May-2021	----	----	----		17-May-2021	7 days	8 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)	E508	06-May-2021	----	----	----		18-May-2021	28 days	13 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)	E508	06-May-2021	----	----	----		18-May-2021	28 days	13 days	✓
Total Metals : Total Mercury in Water by CVAAS										
HDPE	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid)	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid)	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid)	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid)	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid)	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	



Matrix: **Water**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury in Water by CVAAS										
HDPE total (nitric acid)	E508	10-May-2021	----	----	----		19-May-2021	----	9 days	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	06-May-2021	----	----	----		18-May-2021	180 days	13 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	06-May-2021	----	----	----		18-May-2021	180 days	13 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	10-May-2021	----	----	----		18-May-2021	180 days	9 days	✓

Legend & Qualifier Definitions

EHTR: Exceeded ALS recommended hold time prior to sample receipt.

Page : 13 of 17
Work Order : YL2100385
Client : TMAC Resources Inc.
Project : Doris Snowcare Dustfall



EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Ammonia by Fluorescence	E298	199990	2	26	7.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	200323	1	8	12.5	5.0	✔
Chloride in Water by IC	E235.Cl	200318	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	200322	1	8	12.5	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	200320	1	20	5.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	200321	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	200319	1	19	5.2	5.0	✔
TDS by Gravimetry	E162	199352	3	35	8.5	5.0	✔
Total Mercury in Water by CVAAS	E508	200400	2	24	8.3	5.0	✔
Total Metals in Water by CRC ICPMS	E420	199562	1	19	5.2	5.0	✔
TSS by Gravimetry	E160-H	199344	2	26	7.6	5.0	✔
Laboratory Control Samples (LCS)							
Ammonia by Fluorescence	E298	199990	2	26	7.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	200323	1	8	12.5	5.0	✔
Chloride in Water by IC	E235.Cl	200318	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	200322	1	8	12.5	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	200320	1	20	5.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	200321	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	200319	1	19	5.2	5.0	✔
TDS by Gravimetry	E162	199352	3	35	8.5	5.0	✔
Total Mercury in Water by CVAAS	E508	200400	2	24	8.3	5.0	✔
Total Metals in Water by CRC ICPMS	E420	199562	1	19	5.2	5.0	✔
TSS by Gravimetry	E160-H	199344	2	26	7.6	5.0	✔
Method Blanks (MB)							
Ammonia by Fluorescence	E298	199990	2	26	7.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	200323	1	8	12.5	5.0	✔
Chloride in Water by IC	E235.Cl	200318	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	200322	1	8	12.5	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	200320	1	20	5.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	200321	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	200319	1	19	5.2	5.0	✔
TDS by Gravimetry	E162	199352	3	35	8.5	5.0	✔
Total Mercury in Water by CVAAS	E508	200400	2	24	8.3	5.0	✔
Total Metals in Water by CRC ICPMS	E420	199562	1	19	5.2	5.0	✔
TSS by Gravimetry	E160-H	199344	2	26	7.6	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	199990	2	26	7.6	5.0	✔



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Matrix Spikes (MS) - Continued							
Bromide in Water by IC (Low Level)	E235.Br-L	200323	1	8	12.5	5.0	✔
Chloride in Water by IC	E235.Cl	200318	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	200322	1	8	12.5	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	200320	1	20	5.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	200321	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	200319	1	19	5.2	5.0	✔
Total Mercury in Water by CVAAS	E508	200400	2	24	8.3	5.0	✔
Total Metals in Water by CRC ICPMS	E420	199562	1	19	5.2	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
TSS by Gravimetry	E160-H Vancouver - Environmental	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at $104 \pm 1^\circ\text{C}$, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
TDS by Gravimetry	E162 Vancouver - Environmental	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.
Bromide in Water by IC (Low Level)	E235.Br-L Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chloride in Water by IC	E235.Cl Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Fluoride in Water by IC	E235.F Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC (Low Level)	E235.NO2-L Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC (Low Level)	E235.NO3-L Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 Vancouver - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Ammonia by Fluorescence	E298 Vancouver - Environmental	Water	J. Environ. Monit., 2005, 7, 37-42 (mod)	Ammonia in water is analyzed by flow-injection analysis with fluorescence detection after reaction with orthophthaldialdehyde (OPA).



<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Total Metals in Water by CRC ICPMS	E420 Vancouver - Environmental	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 Vancouver - Environmental	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
Hardness (Calculated) from Total Ca/Mg	EC100A Vancouver - Environmental	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations. Hardness from total Ca/Mg is normally comparable to Dissolved Hardness in non-turbid waters.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Preparation for Ammonia	EP298 Vancouver - Environmental	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.



QUALITY CONTROL REPORT

Work Order : **YL2100385**

Page : 1 of 13

Client : TMAC Resources Inc.
Contact : Environmental Site Manager
Address : Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33
Toronto ON Canada M5H 3M7
Telephone : ----
Project : Doris Snowcare Dustfall
PO : 4500017096
C-O-C number : ----
Sampler : AH
Site :
Quote number : Q80651
No. of samples received : 8
No. of samples analysed : 8

Laboratory : Yellowknife - Environmental
Account Manager : Amber Springer
Address : 314 Old Airport Road, Unit 116
Yellowknife, Northwest Territories Canada X1A 3T3
Telephone : +1 867 873 5593
Date Samples Received : 12-May-2021 15:30
Date Analysis Commenced : 17-May-2021
Issue Date : 21-May-2021 12:40

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits
- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Angela Ren	Team Leader - Metals	Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Lindsay Gung	Supervisor - Water Chemistry	Inorganics, Burnaby, British Columbia



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percentage Difference

= Indicates a QC result that did not meet the ALS DQO.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 199344)											
VA21A9215-002	Anonymous	solids, total suspended [TSS]	----	E160-H	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 199352)											
VA21A9190-004	Anonymous	solids, total dissolved [TDS]	----	E162	20	mg/L	1170	1280	9.03%	20%	----
Physical Tests (QC Lot: 199881)											
VA21A9217-003	Anonymous	solids, total suspended [TSS]	----	E160-H	3.0	mg/L	3.4	3.0	0.4	Diff <2x LOR	----
Physical Tests (QC Lot: 199886)											
FJ2100260-001	Anonymous	solids, total dissolved [TDS]	----	E162	20	mg/L	136	140	4	Diff <2x LOR	----
Physical Tests (QC Lot: 199887)											
YL2100385-007	BLANKF	solids, total dissolved [TDS]	----	E162	10	mg/L	<10	<10	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 199990)											
KS2101425-001	Anonymous	ammonia, total (as N)	7664-41-7	E298	0.250	mg/L	21.6	21.5	0.367%	20%	----
Anions and Nutrients (QC Lot: 200318)											
YL2100385-001	CONTROLDF-SNOW	chloride	16887-00-6	E235.Cl	0.50	mg/L	6.30	6.28	0.263%	20%	----
Anions and Nutrients (QC Lot: 200319)											
YL2100385-001	CONTROLDF-SNOW	sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	0.40	0.40	0.0004	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 200320)											
YL2100385-001	CONTROLDF-SNOW	nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.302	0.304	0.649%	20%	----
Anions and Nutrients (QC Lot: 200321)											
YL2100385-001	CONTROLDF-SNOW	nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 200322)											
YL2100385-001	CONTROLDF-SNOW	fluoride	16984-48-8	E235.F	0.020	mg/L	<0.020	<0.020	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 200323)											
YL2100385-001	CONTROLDF-SNOW	bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 200409)											
YL2100385-002	TIADF1-SNOW	ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.128	0.131	2.91%	20%	----
Total Metals (QC Lot: 199562)											
YL2100376-001	Anonymous	aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0107	0.0117	0.0010	Diff <2x LOR	----
		antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00029	0.00030	0.00001	Diff <2x LOR	----
		barium, total	7440-39-3	E420	0.00010	mg/L	0.00253	0.00258	1.85%	20%	----
		beryllium, total	7440-41-7	E420	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	----

Laboratory Duplicate (DUP) Report

Total Metals (QC Lot: 200400)



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 200400) - continued											
WR2100465-011	Anonymous	mercury, total	7439-97-6	E508	0.0000050	mg/L	0.0000055	<0.0000050	0.0000005	Diff <2x LOR	----
Total Metals (QC Lot: 200696)											
YL2100384-003	Anonymous	mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 199344)						
solids, total suspended [TSS]	----	E160-H	3	mg/L	<3.0	----
Physical Tests (QCLot: 199352)						
solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 199881)						
solids, total suspended [TSS]	----	E160-H	3	mg/L	<3.0	----
Physical Tests (QCLot: 199886)						
solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 199887)						
solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 199990)						
ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 200318)						
chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 200319)						
sulfate (as SO ₄)	14808-79-8	E235.SO ₄	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 200320)						
nitrate (as N)	14797-55-8	E235.NO ₃ -L	0.005	mg/L	# 0.0175	B
Anions and Nutrients (QCLot: 200321)						
nitrite (as N)	14797-65-0	E235.NO ₂ -L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 200322)						
fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 200323)						
bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 200409)						
ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Total Metals (QCLot: 199562)						
aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	----
bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	----
boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 199562) - continued						
cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	----
chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	----
magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	----
potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	----
selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	----
silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
sodium, total	17341-25-2	E420	0.05	mg/L	<0.050	----
strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	----
sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	----
tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	----
thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	----
thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	----
tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----
titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
tungsten, total	7440-33-7	E420	0.0001	mg/L	<0.00010	----
uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	----
zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
zirconium, total	7440-67-7	E420	0.0002	mg/L	<0.00020	----
Total Metals (QCLot: 200400)						
mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 200696)						
mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----



Qualifiers

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 199344)									
solids, total suspended [TSS]	----	E160-H	3	mg/L	150 mg/L	96.8	85.0	115	----
Physical Tests (QCLot: 199352)									
solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	99.2	85.0	115	----
Physical Tests (QCLot: 199881)									
solids, total suspended [TSS]	----	E160-H	3	mg/L	150 mg/L	86.3	85.0	115	----
Physical Tests (QCLot: 199886)									
solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	98.3	85.0	115	----
Physical Tests (QCLot: 199887)									
solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	90.9	85.0	115	----
Anions and Nutrients (QCLot: 199990)									
ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	98.2	85.0	115	----
Anions and Nutrients (QCLot: 200318)									
chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	103	90.0	110	----
Anions and Nutrients (QCLot: 200319)									
sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	105	90.0	110	----
Anions and Nutrients (QCLot: 200320)									
nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	106	90.0	110	----
Anions and Nutrients (QCLot: 200321)									
nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	103	90.0	110	----
Anions and Nutrients (QCLot: 200322)									
fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	104	90.0	110	----
Anions and Nutrients (QCLot: 200323)									
bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	106	85.0	115	----
Anions and Nutrients (QCLot: 200409)									
ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	97.3	85.0	115	----
Total Metals (QCLot: 199562)									
aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	106	80.0	120	----
antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	110	80.0	120	----
arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	102	80.0	120	----
barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	98.9	80.0	120	----
beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	100.0	80.0	120	----
bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	111	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 199562) - continued									
boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	99.3	80.0	120	----
cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	104	80.0	120	----
calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	99.8	80.0	120	----
cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	102	80.0	120	----
chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	103	80.0	120	----
cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	102	80.0	120	----
iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	101	80.0	120	----
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	98.2	80.0	120	----
magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	98.5	80.0	120	----
manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	102	80.0	120	----
nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	103	80.0	120	----
phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	# 132	80.0	120	MES
potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	104	80.0	120	----
rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	105	80.0	120	----
selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	101	80.0	120	----
silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	106	80.0	120	----
silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	99.1	80.0	120	----
sodium, total	17341-25-2	E420	0.05	mg/L	50 mg/L	103	80.0	120	----
strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	110	80.0	120	----
sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	100	80.0	120	----
tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	104	80.0	120	----
thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	104	80.0	120	----
thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	93.6	80.0	120	----
tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	101	80.0	120	----
titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	94.9	80.0	120	----
tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	98.6	80.0	120	----
uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	100	80.0	120	----
vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	103	80.0	120	----
zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	100.0	80.0	120	----
zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	96.9	80.0	120	----
Total Metals (QCLot: 200400)									
mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	104	80.0	120	----
Total Metals (QCLot: 200696)									
mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	95.3	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report			
					Spike	Recovery (%)	Recovery Limits (%)	
					Concentration	LCS	Low	High
Analyte	CAS Number	Method	LOR	Unit				

Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 199990)										
VA21A5290-001	Anonymous	ammonia, total (as N)	7664-41-7	E298	0.201 mg/L	0.2 mg/L	100	75.0	125	----
Anions and Nutrients (QCLot: 200318)										
YL2100385-002	TIADF1-SNOW	chloride	16887-00-6	E235.Cl	98.1 mg/L	100 mg/L	98.1	75.0	125	----
Anions and Nutrients (QCLot: 200319)										
YL2100385-002	TIADF1-SNOW	sulfate (as SO4)	14808-79-8	E235.SO4	99.7 mg/L	100 mg/L	99.7	75.0	125	----
Anions and Nutrients (QCLot: 200320)										
YL2100385-002	TIADF1-SNOW	nitrate (as N)	14797-55-8	E235.NO3-L	2.54 mg/L	2.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 200321)										
YL2100385-002	TIADF1-SNOW	nitrite (as N)	14797-65-0	E235.NO2-L	0.496 mg/L	0.5 mg/L	99.3	75.0	125	----
Anions and Nutrients (QCLot: 200322)										
YL2100385-002	TIADF1-SNOW	fluoride	16984-48-8	E235.F	1.02 mg/L	1 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 200323)										
YL2100385-002	TIADF1-SNOW	bromide	24959-67-9	E235.Br-L	0.508 mg/L	0.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 200409)										
YL2100385-003	TIADF2-SNOW	ammonia, total (as N)	7664-41-7	E298	0.192 mg/L	0.2 mg/L	96.0	75.0	125	----
Total Metals (QCLot: 199562)										
YL2100376-001	Anonymous	aluminum, total	7429-90-5	E420	0.200 mg/L	0.2 mg/L	100	70.0	130	----
		antimony, total	7440-36-0	E420	0.0195 mg/L	0.02 mg/L	97.5	70.0	130	----
		arsenic, total	7440-38-2	E420	0.0196 mg/L	0.02 mg/L	98.3	70.0	130	----
		barium, total	7440-39-3	E420	0.0186 mg/L	0.02 mg/L	92.9	70.0	130	----
		beryllium, total	7440-41-7	E420	0.0398 mg/L	0.04 mg/L	99.5	70.0	130	----
		bismuth, total	7440-69-9	E420	0.0100 mg/L	0.01 mg/L	100	70.0	130	----
		boron, total	7440-42-8	E420	0.100 mg/L	0.1 mg/L	99.8	70.0	130	----
		cadmium, total	7440-43-9	E420	0.00407 mg/L	0.004 mg/L	102	70.0	130	----
		calcium, total	7440-70-2	E420	ND mg/L	4 mg/L	ND	70.0	130	----
		cesium, total	7440-46-2	E420	0.0104 mg/L	0.01 mg/L	104	70.0	130	----
		chromium, total	7440-47-3	E420	0.0395 mg/L	0.04 mg/L	98.8	70.0	130	----
		cobalt, total	7440-48-4	E420	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----
		copper, total	7440-50-8	E420	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----



Sub-Matrix: **Water**

Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 199562) - continued										
YL2100376-001	Anonymous	iron, total	7439-89-6	E420	1.94 mg/L	2 mg/L	97.2	70.0	130	----
		lead, total	7439-92-1	E420	0.0188 mg/L	0.02 mg/L	93.8	70.0	130	----
		lithium, total	7439-93-2	E420	0.0968 mg/L	0.1 mg/L	96.8	70.0	130	----
		magnesium, total	7439-95-4	E420	ND mg/L	1 mg/L	ND	70.0	130	----
		manganese, total	7439-96-5	E420	0.0195 mg/L	0.02 mg/L	97.5	70.0	130	----
		molybdenum, total	7439-98-7	E420	0.0194 mg/L	0.02 mg/L	97.0	70.0	130	----
		nickel, total	7440-02-0	E420	0.0390 mg/L	0.04 mg/L	97.6	70.0	130	----
		phosphorus, total	7723-14-0	E420	10.8 mg/L	10 mg/L	108	70.0	130	----
		potassium, total	7440-09-7	E420	4.05 mg/L	4 mg/L	101	70.0	130	----
		rubidium, total	7440-17-7	E420	0.0192 mg/L	0.02 mg/L	96.2	70.0	130	----
		selenium, total	7782-49-2	E420	0.0394 mg/L	0.04 mg/L	98.6	70.0	130	----
		silicon, total	7440-21-3	E420	9.22 mg/L	10 mg/L	92.2	70.0	130	----
		silver, total	7440-22-4	E420	0.00384 mg/L	0.004 mg/L	95.9	70.0	130	----
		sodium, total	17341-25-2	E420	ND mg/L	2 mg/L	ND	70.0	130	----
		strontium, total	7440-24-6	E420	ND mg/L	0.02 mg/L	ND	70.0	130	----
		sulfur, total	7704-34-9	E420	20.6 mg/L	20 mg/L	103	70.0	130	----
		tellurium, total	13494-80-9	E420	0.0388 mg/L	0.04 mg/L	96.9	70.0	130	----
		thallium, total	7440-28-0	E420	0.00361 mg/L	0.004 mg/L	90.3	70.0	130	----
		thorium, total	7440-29-1	E420	0.0204 mg/L	0.02 mg/L	102	70.0	130	----
		tin, total	7440-31-5	E420	0.0194 mg/L	0.02 mg/L	96.9	70.0	130	----
		titanium, total	7440-32-6	E420	0.0375 mg/L	0.04 mg/L	93.8	70.0	130	----
		tungsten, total	7440-33-7	E420	0.0187 mg/L	0.02 mg/L	93.4	70.0	130	----
		uranium, total	7440-61-1	E420	0.00379 mg/L	0.004 mg/L	94.8	70.0	130	----
		vanadium, total	7440-62-2	E420	0.1000 mg/L	0.1 mg/L	100.0	70.0	130	----
		zinc, total	7440-66-6	E420	0.388 mg/L	0.4 mg/L	97.0	70.0	130	----
		zirconium, total	7440-67-7	E420	0.0385 mg/L	0.04 mg/L	96.3	70.0	130	----
Total Metals (QCLot: 200400)										
WR2100466-001	Anonymous	mercury, total	7439-97-6	E508	0.0104 mg/L	0.01 mg/L	104	70.0	130	----
Total Metals (QCLot: 200696)										
YL2100384-004	Anonymous	mercury, total	7439-97-6	E508	0.0000952 mg/L	0.0001 mg/L	95.2	70.0	130	----



Report To:			Report Format / Distribution			Service Requested (Rush for routine analysis subject to availability)													
Company: TMAC Resources Ltd (Hope Bay)			<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other			<input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days)													
Contact: Environmental Site Manager			<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> Digital <input type="checkbox"/> Fax			<input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT													
Address: 181 University Ave, Suite 300			Email 1: enviro_data@agnicoeagle.com			<input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT													
P.O. Box 44, Toronto, ON, M5H 3M7			Email 2: Gregory.Crooks@stantec.com			<input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT													
Phone: 1-416-628-0216 Fax:			Email 3: andrea.hrynkiw@agnicoeagle.com			Analysis Request													
Invoice To Same as Report? Y			Client / Project Information			Please indicate below Filtered, Preserved or both (F, P, F/P)													
Hardcopy of Invoice with Report?			Job #:																
Company:			PO / AFE: 4500017096																
Contact:			LSD:																
Address:			Job Ref: Dons Snowcore Dustfall																
Phone: Fax:			Quote #:																
Lab Work Order # (lab use only)			ALS Contact: Amber Springer			Sampler: AH													
YL2100385																			
Sample #	Sample Identification (This description will appear on the report)	Date In (dd-mm-yy)	TIME	Sample Type	TDS	TSS	Anions	Total-Metals + Total Hg	Ammonia	Number of Containers									
	CONTROLD-SNOW	10-May-21	13:50	Water	X	X	X	X	X										
	TIADF1-SNOW	10-May-21	13:55	Water	X	X	X	X	X										
	TIADF2-SNOW	10-May-21	14:25	Water	X	X	X	X	X										
	TIADF3-SNOW	10-May-21	14:15	Water	X	X	X	X	X										
	DFA1-SNOW	10-May-21	14:18	Water	X	X	X	X	X										
	BLANKE	06-May-21	13:00	Water	X	X	X	X	X										
	BLANKF	06-May-21	14:30	Water	X	X	X	X	X										
	TIADF3-SNOW-DUP	10-May-21	14:20	Water	X	X	X	X	X										
Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details																			
Samples have not been preserved. Please if necessary use sieve to strain if too much debris for tests.																			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																			
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.																			
Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.																			
SHIPMENT RELEASE (client use)					SHIPMENT RECEPTION (lab use only)					SHIPMENT VERIFICATION (lab use only)									
Released by:	Date (dd-mm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations:									
Andrea Hrynkiw	11-May-21	7:00				°C				Yes / No ?									
											If Yes add SIF								

Environmental Division
Yellowknife
Work Order Reference
YL2100385



Telephone : - 1 867 873 5593

NY 9100382

APPENDIX B

Partisol Sampler Laboratory Analysis

This page intentionally left blank



CERTIFICATE OF ANALYSIS

Work Order	: YL2100256
Client	: TMAC Resources Inc.
Contact	: Environmental Site Manager
Address	: Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33 Toronto ON Canada M5H 3M7
Telephone	: ----
Project	: ----
PO	: 4500017096
C-O-C number	: ----
Sampler	: ----
Site	:
Quote number	: Q80651
No. of samples received	: 32
No. of samples analysed	: 32

Page : 1 of 7

Laboratory : Yellowknife - Environmental

Account Manager : Amber Springer

Address : 314 Old Airport Road, Unit 116
Yellowknife NT Canada X1A 3T3

Telephone : +1 867 873 5593

Date Samples Received : 09-Apr-2021 15:30

Date Analysis Commenced : 20-Apr-2021

Issue Date : 28-Apr-2021 13:43

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kaitlyn Gardner	Account Manager Assistant	Administration, Burnaby, British Columbia
Lindsay Gung	Supervisor - Water Chemistry	Inorganics, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
µg	micrograms
µg/m³	micrograms per cubic metre
L	litres
mg/sample	milligrams per sample

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Filter (TSP/RSP)

(Matrix: Air)

					Client sample ID	016168	01579	27571	041678	057305
					Client sampling date / time	29-Dec-2020	04-Jan-2021	10-Jan-2021	16-Jan-2021	22-Jan-2021
Analyte	CAS Number	Method	LOR	Unit		YL2100256-001	YL2100256-002	YL2100256-003	YL2100256-004	YL2100256-005
						Result	Result	Result	Result	Result
Field Tests										
air volume, field	----	EF003	0.010	L		24000	24000	24000	24000	24000
Particulates										
particulate, total	----	E894	50	µg		<50	<50	137	<50	140
particulate, total	----	EC894	2.0	µg/m³		<2.0	<2.0	5.7	<2.0	5.8

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Filter (TSP/RSP)

(Matrix: Air)

					Client sample ID	27310	009930	057312	27295	27777
					Client sampling date / time	28-Jan-2021	03-Feb-2021	09-Feb-2021	15-Feb-2021	21-Feb-2021
Analyte	CAS Number	Method	LOR	Unit		YL2100256-006	YL2100256-007	YL2100256-008	YL2100256-009	YL2100256-010
						Result	Result	Result	Result	Result
Field Tests										
air volume, field	----	EF003	0.010	L		24000	24000	24000	24000	24000
Particulates										
particulate, total	----	E894	50	µg		<50	97	107	133	107
particulate, total	----	EC894	2.0	µg/m³		<2.0	4.0	4.4	5.5	4.4

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Filter (TSP/RSP)

					Client sample ID	01560	016190	016177	01562	034146
(Matrix: Air)										
					Client sampling date / time	27-Feb-2021	05-Mar-2021	11-Mar-2021	17-Mar-2021	23-Mar-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100256-011	YL2100256-012	YL2100256-013	YL2100256-014	YL2100256-015	
					Result	Result	Result	Result	Result	
Field Tests										
air volume, field	----	EF003	0.010	L	24000	24000	24000	24000	24000	24000
Particulates										
particulate, total	----	E894	50	µg	337	<50	117	140	117	
particulate, total	----	EC894	2.0	µg/m³	14.0	<2.0	4.9	5.8	4.9	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Filter (TSP/RSP)

					Client sample ID	010347	25402/015094	25077/24943	27814/22664	17831/27318
(Matrix: Air)										
					Client sampling date / time	29-Mar-2021	29-Dec-2020	04-Jan-2021	10-Jan-2021	16-Jan-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100256-016	YL2100256-017	YL2100256-018	YL2100256-019	YL2100256-020	
					Result	Result	Result	Result	Result	
Field Tests										
air volume, field	----	EF003	0.010	L	24000	----	----	----	----	----
air volume, field, coarse particulate	----	EF005	0.010	L	----	2400	2400	2400	2400	2400
air volume, field, fine particulate	----	EF005	0.010	L	----	21600	21600	21600	21600	21600
Particulates										
particulate, coarse	----	EC886	2.0	µg/m³	----	<2.0	<2.0	<2.0	<2.0	<2.0
particulate, fine	----	EC886	2.0	µg/m³	----	<2.3	<2.3	5.4	<2.3	
particulate, PM10	----	EC886	3.0	µg/m³	----	<3.0	<3.0	5.4	<3.0	
particulate, PM2.5	----	EC886	2.0	µg/m³	----	<2.3	<2.3	5.4	<2.3	
particulate, total	----	E894	50	µg	203	----	----	----	----	----
particulate, total	----	EC894	2.0	µg/m³	8.4	----	----	----	----	----
particulate, coarse	----	E886	0.050	mg/sample	----	<0.050	<0.050	<0.050	<0.050	<0.050
particulate, fine	----	E886	0.050	mg/sample	----	<0.050	<0.050	0.117	<0.050	
particulate, PM10	----	E886	0.075	mg/sample	----	<0.075	<0.075	0.117	<0.075	
particulate, PM2.5	----	E886	0.050	mg/sample	----	<0.050	<0.050	0.117	<0.050	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Filter (TSP/RSP)

Client sample ID

Sub-Matrix: Filter (TSP/RSP)					Client sample ID	057298/034142	27579/24917	27774/034131	25064/27806	057304/015272
(Matrix: Air)										
					Client sampling date / time	22-Jan-2021	28-Jan-2021	03-Feb-2021	09-Feb-2021	15-Feb-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100256-021	YL2100256-022	YL2100256-023	YL2100256-024	YL2100256-025	
					Result	Result	Result	Result	Result	
Field Tests										
air volume, field, coarse particulate	----	EF005	0.010	L	2400	2400	2400	2400	2400	
air volume, field, fine particulate	----	EF005	0.010	L	21600	21600	21600	21600	21600	
Particulates										
particulate, coarse	----	EC886	2.0	µg/m³	<2.0	<2.0	<2.0	<2.0	<2.0	
particulate, fine	----	EC886	2.0	µg/m³	<2.3	<2.3	<2.3	2.4	<2.3	
particulate, PM10	----	EC886	3.0	µg/m³	<3.0	<3.0	<3.0	<3.0	<3.0	
particulate, PM2.5	----	EC886	2.0	µg/m³	<2.3	<2.3	<2.3	2.4	<2.3	
particulate, coarse	----	E886	0.050	mg/sample	<0.050	<0.050	<0.050	<0.050	<0.050	
particulate, fine	----	E886	0.050	mg/sample	<0.050	<0.050	<0.050	0.053	<0.050	
particulate, PM10	----	E886	0.075	mg/sample	<0.075	<0.075	<0.075	<0.075	<0.075	
particulate, PM2.5	----	E886	0.050	mg/sample	<0.050	<0.050	<0.050	0.053	<0.050	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Filter (TSP/RSP)

Client sample ID

(Matrix: Air)									
Client sampling date / time					21-Feb-2021	27-Feb-2021	05-Mar-2021	11-Mar-2021	17-Mar-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100256-026	YL2100256-027	YL2100256-028	YL2100256-029	YL2100256-030
					Result	Result	Result	Result	Result
Field Tests									
air volume, field, coarse particulate	----	EF005	0.010	L	2400	2400	2400	2400	2400
air volume, field, fine particulate	----	EF005	0.010	L	21600	21600	21600	21600	21600
Particulates									
particulate, coarse	----	EC886	2.0	µg/m³	<2.0	<2.0	<2.0	<2.0	<2.0
particulate, fine	----	EC886	2.0	µg/m³	<2.3	<2.3	<2.3	<2.3	<2.3
particulate, PM10	----	EC886	3.0	µg/m³	<3.0	<3.0	<3.0	<3.0	<3.0
particulate, PM2.5	----	EC886	2.0	µg/m³	<2.3	<2.3	<2.3	<2.3	<2.3
particulate, coarse	----	E886	0.050	mg/sample	<0.050	<0.050	<0.050	<0.050	<0.050
particulate, fine	----	E886	0.050	mg/sample	<0.050	<0.050	<0.050	<0.050	<0.050
particulate, PM10	----	E886	0.075	mg/sample	<0.075	<0.075	<0.075	<0.075	<0.075
particulate, PM2.5	----	E886	0.050	mg/sample	<0.050	<0.050	<0.050	<0.050	<0.050

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Filter (TSP/RSP)

(Matrix: Air)

Sub-Matrix: Filter (TSP/RSP)					Client sample ID	016166/015115	034160/034120	----	----	----
(Matrix: Air)										
					Client sampling date / time	23-Mar-2021	29-Mar-2021	----	----	----
Analyte	CAS Number	Method	LOR	Unit	YL2100256-031	YL2100256-032	-----	-----	-----	
					Result	Result	----	----	----	
Field Tests										
air volume, field, coarse particulate	----	EF005	0.010	L	2400	2400	----	----	----	
air volume, field, fine particulate	----	EF005	0.010	L	21600	21600	----	----	----	
Particulates										
particulate, coarse	----	EC886	2.0	µg/m³	<2.0	<2.0	----	----	----	
particulate, fine	----	EC886	2.0	µg/m³	<2.3	<2.3	----	----	----	
particulate, PM10	----	EC886	3.0	µg/m³	<3.0	<3.0	----	----	----	
particulate, PM2.5	----	EC886	2.0	µg/m³	<2.3	<2.3	----	----	----	
particulate, coarse	----	E886	0.050	mg/sample	<0.050	<0.050	----	----	----	
particulate, fine	----	E886	0.050	mg/sample	<0.050	<0.050	----	----	----	
particulate, PM10	----	E886	0.075	mg/sample	<0.075	<0.075	----	----	----	
particulate, PM2.5	----	E886	0.050	mg/sample	<0.050	<0.050	----	----	----	

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: YL2100256	Page	: 1 of 11
Client	: TMAC Resources Inc.	Laboratory	: Yellowknife - Environmental
Contact	: Environmental Site Manager	Account Manager	: Amber Springer
Address	: Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33 Toronto ON Canada M5H 3M7	Address	: 314 Old Airport Road, Unit 116 Yellowknife, Northwest Territories Canada X1A 3T3
Telephone	: ----	Telephone	: +1 867 873 5593
Project	: ----	Date Samples Received	: 09-Apr-2021 15:30
PO	: 4500017096	Issue Date	: 28-Apr-2021 13:43
C-O-C number	: ----		
Sampler	: ----		
Site	:		
Quote number	: Q80651		
No. of samples received	: 32		
No. of samples analysed	: 32		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 015129/010327	EF005	17-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 015524/041679	EF005	11-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 016166/015115	EF005	23-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 016179/24901	EF005	27-Feb-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 034160/034120	EF005	29-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 057298/034142	EF005	22-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 057304/015272	EF005	15-Feb-2021	----	----	----		21-Apr-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 13080/041647	EF005	05-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 17831/27318	EF005	16-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 25064/27806	EF005	09-Feb-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 25077/24943	EF005	04-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 25402/015094	EF005	29-Dec-2020	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 27298/24924	EF005	21-Feb-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 27579/24917	EF005	28-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 27774/034131	EF005	03-Feb-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Cassette 27814/22664	EF005	10-Jan-2021	----	----	----		21-Apr-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Air Sampling Volume										
Filter 009930	EF003	03-Feb-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 010347	EF003	29-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 01560	EF003	27-Feb-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 01562	EF003	17-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 01579	EF003	04-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 016168	EF003	29-Dec-2020	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 016177	EF003	11-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 016190	EF003	05-Mar-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 034146	EF003	23-Mar-2021	----	----	----		21-Apr-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Air Sampling Volume										
Filter 041678	EF003	16-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 057305	EF003	22-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 057312	EF003	09-Feb-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 27295	EF003	15-Feb-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 27310	EF003	28-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 27571	EF003	10-Jan-2021	----	----	----		21-Apr-2021	----	----	
Field Tests : Air Sampling Volume										
Filter 27777	EF003	21-Feb-2021	----	----	----		21-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 015129/010327	E886	17-Mar-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 015524/041679	E886	11-Mar-2021	----	----	----		20-Apr-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 016166/015115	E886	23-Mar-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 016179/24901	E886	27-Feb-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 034160/034120	E886	29-Mar-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 057298/034142	E886	22-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 057304/015272	E886	15-Feb-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 13080/041647	E886	05-Mar-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 17831/27318	E886	16-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 25064/27806	E886	09-Feb-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 25077/24943	E886	04-Jan-2021	----	----	----		20-Apr-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 25402/015094	E886	29-Dec-2020	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 27298/24924	E886	21-Feb-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 27579/24917	E886	28-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 27774/034131	E886	03-Feb-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 27814/22664	E886	10-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 009930	E894	03-Feb-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 010347	E894	29-Mar-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 01560	E894	27-Feb-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 01562	E894	17-Mar-2021	----	----	----		20-Apr-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 01579	E894	04-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 016168	E894	29-Dec-2020	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 016177	E894	11-Mar-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 016190	E894	05-Mar-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 034146	E894	23-Mar-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 041678	E894	16-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 057305	E894	22-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 057312	E894	09-Feb-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 27295	E894	15-Feb-2021	----	----	----		20-Apr-2021	----	----	



Matrix: **Air** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 27310	E894	28-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 27571	E894	10-Jan-2021	----	----	----		20-Apr-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 27777	E894	21-Feb-2021	----	----	----		20-Apr-2021	----	----	

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Particulates Dichotomous by Gravimetry (mg/sample)	E886	181916	1	16	6.2	5.0	✔
Total Particulate (TP) by Gravimetry	E894	181944	1	16	6.2	5.0	✔
Method Blanks (MB)							
Particulates Dichotomous by Gravimetry (mg/sample)	E886	181916	1	16	6.2	5.0	✔
Total Particulate (TP) by Gravimetry	E894	181944	1	16	6.2	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Particulates Dichotomous by Gravimetry (mg/sample)	E886 Vancouver - Environmental	Air	BC Lab Manual - Total Particulate	Total Particulate Matter (PM10) Method analysis is carried out in accordance with the BCMOE Lab Manual, Section G Air Constituents - Inorganics, "Total Particulate - PM10/PM02 - 47mm - HiVol" method. ALS provides pre-weighed filters (Pallflex TX40 HI20-WW 47mm) and clients typically sample using a "Dichotomus Partisol sequential Air Sampler" equivalent sample (EQPS-0509-179, EQPS-0509-180, EQPS-0311-198) as per U.S. EPA Reference Method RFPS-0694-098, fitted with a PM10 inlet. The particulate matter is determined gravimetrically. Three formulas are required for the mass concentration(um/M3) computation of fine PM(PM-2.5) Course PM (PM-10 minus PM2.5) and PM-10.
Total Particulate (TP) by Gravimetry	E894 Vancouver - Environmental	Air	BC Lab Manual - Total Particulate	Total Particulate Matter (TP) Method of analysis is modified from the BCMOE Lab Manual, Section G Air Constituents - Inorganics, "Total Particulate - PM10/PM02 - 47mm - HiVol" method. ALS provides pre-weighed filters (Pallflex TX40 HI20-WW 47mm) and clients typically sample using a "Partisol Model 2000 Air Sampler" as per U.S. EPA Reference Method RFPS-0694-098, fitted with a TSP inlet. The particulate matter is determined gravimetrically.
Particulates Dichotomous by Gravimetry (ug/m3)	EC886 Vancouver - Environmental	Air	BC Lab Manual - Total Particulate	Total Particulate Matter (PM10) Method analysis is carried out in accordance with the BCMOE Lab Manual, Section G Air Constituents - Inorganics, "Total Particulate - PM10/PM02 - 47mm - HiVol" method. ALS provides pre-weighed filters (Pallflex TX40 HI20-WW 47mm) and clients typically sample using a "Dichotomus Partisol sequential Air Sampler" equivalent sample (EQPS-0509-179, EQPS-0509-180, EQPS-0311-198) as per U.S. EPA Reference Method RFPS-0694-098, fitted with a PM10 inlet. The particulate matter is determined gravimetrically. Three formulas are required for the mass concentration(um/M3) computation of fine PM(PM-2.5) Course PM (PM-10 minus PM2.5) and PM-10.
Total Particulate (TP) by Gravimetry in air volume units	EC894 Vancouver - Environmental	Air	BC Lab Manual - Total Particulate	Total Particulate Matter (TSP) Method of analysis is modified from the BCMOE Lab Manual, Section G Air Constituents - Inorganics, "Total Particulate - PM10/PM02 - 47mm - HiVol" method. ALS provides pre-weighed filters (Pallflex TX40 HI20-WW 47mm) and clients typically sample using a "Partisol Model 2000 Air Sampler" as per U.S. EPA Reference Method RFPS-0694-098, fitted with a TSP inlet. The particulate matter is determined gravimetrically.
Air Sampling Volume	EF003 Vancouver - Environmental	Air		Field measurement of sampling volume provided by client and recorded on ALS report may affect the validity of results.
Air Sampling Volume for Particulate (Dichotomous)	EF005 Vancouver - Environmental	Air	Field measurements supplied by client	Field measurement of sampling volume provided by client and recorded on ALS report may affect the validity of results



Environmental

QUALITY CONTROL REPORT

Work Order : **YL2100256**

Page : 1 of 3

Client : TMAC Resources Inc.
Contact : Environmental Site Manager
Address : Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33
Toronto ON Canada M5H 3M7
Telephone : ----
Project : ----
PO : 4500017096
C-O-C number : ----
Sampler : ----
Site :
Quote number : Q80651
No. of samples received : 32
No. of samples analysed : 32

Laboratory : Yellowknife - Environmental
Account Manager : Amber Springer
Address : 314 Old Airport Road, Unit 116
Yellowknife, Northwest Territories Canada X1A 3T3
Telephone : +1 867 873 5593
Date Samples Received : 09-Apr-2021 15:30
Date Analysis Commenced : 20-Apr-2021
Issue Date : 28-Apr-2021 13:43

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits
- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Kaitlyn Gardner	Account Manager Assistant	Administration, Burnaby, British Columbia
Lindsay Gung	Supervisor - Water Chemistry	Inorganics, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

- Key :
- Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
 - CAS Number = Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
 - DQO = Data Quality Objective.
 - LOR = Limit of Reporting (detection limit).
 - RPD = Relative Percentage Difference
 - # = Indicates a QC result that did not meet the ALS DQO.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Particulates (QC Lot: 181916)											
YL2100256-017	25402/015094	particulate, coarse	----	E886	0.050	mg/sample	<0.050	<0.050	0	Diff <2x LOR	----
		particulate, fine	----	E886	0.050	mg/sample	<0.050	<0.050	0	Diff <2x LOR	----
		particulate, PM10	----	E886	0.075	mg/sample	<0.075	<0.075	0	Diff <2x LOR	----
Particulates (QC Lot: 181944)											
YL2100256-001	016168	particulate, total	----	E894	50	µg	<50	<50	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 181916)						
particulate, coarse	----	E886	0.05	mg/sample	<0.050	----
particulate, fine	----	E886	0.05	mg/sample	<0.050	----
particulate, PM10	----	E886	0.075	mg/sample	<0.075	----
Particulates (QCLot: 181944)						
particulate, total	----	E894	50	µg	<50	----



Environmental Division

Report to:		Report Format / Distribution		Service Requested:	
Company: Tmac Resources Ltd. (Hope Bay)		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Regular Service (Default)	
Contact: Sarah Warnock		<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Fax		<input type="checkbox"/> Rush Service (2-3 Days)	
Address: c/o BBE Logistics, 1759 - 35 Ave. East		Email 1: Gregory.Crooks@stantec.com		<input type="checkbox"/> Priority Service (1 Day or ASAP)	
Edmonton Int. Airport, Edmonton, AB T9E 0V6		Email 2: enviro.data@agnicoeagle.com		<input type="checkbox"/> Emergency Service (<1 Day / Wkend) - Contact ALS	
Phone: 867-988-6882 ex102 Fax:		Email 3:		Analysis Request	
Invoice To: <input type="checkbox"/> Same as Report		Indicate Bottles: Filtered / Preserved (F/P) →			
Company: Tmac Resources Ltd. (Hope Bay)		Client / Project Information:			
Contact: Accounts Payable		Job #:			
Address: 300 - 181 University Ave., Po Box 33		PO/AFE: 4500017096			
Toronto, ON M5H 3M7		Legal Site Description:			
Phone: 416-628-0216 Fax:		Quote #:			
Lab Work Order # (lab use only)		ALS Contact: Amber Springer		Sampler (Initials): TMAC	
Sample #	Sample Identification (This description will appear on the report)		Date dd-mmm-yy	Sample Exposure Duration hh:mm	Sample Type (Select from drop-down list)
1	016168	XX m³3	29-Dec-20		Air
2	01579		4-Jan-21		Air
3	27571		10-Jan-21		Air
4	041678		16-Jan-21		Air
5	057305		22-Jan-21		Air
6	27310		28-Jan-21		Air
7	009930		3-Feb-21		Air
8	057312		9-Feb-21		Air
9	27295		15-Feb-21		Air
10	27777		21-Feb-21		Air
11	01560		27-Feb-21		Air
12	016190		5-Mar-21		Air
13	016177		11-Mar-21		Air
14	01562		17-Mar-21		Air
15	034146		23-Mar-21		Air
16	010347		29-Mar-21		Air
Guidelines / Regulations			Special Instructions / Hazardous Details		
NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!					
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.					
Relinquished By:	Patrick Jolliffe	Date & Time:	08-Apr-21	Received By:	NA
Relinquished By:		Date & Time:		Received By:	
Date & Time:			08-Apr-21 15:30	Sample Condition (lab use only)	
Temperature			Samples Received in Good Condition? Y / N (if no provided details)		

Environmental Division
Yellowknife
Work Order Reference
YL2100256



Telephone : +1 867 873 5593

Report to:				Report Format / Distribution				Service Requested:														
Company: Tmac Resources Ltd. (Hope Bay)								<input checked="" type="checkbox"/> Regular Service (Default) <input type="checkbox"/> Rush Service (2-3 Days) <input type="checkbox"/> Priority Service (1 Day or ASAP) <input type="checkbox"/> Emergency Service (<1 Day / Wkend) - Contact ALS														
Contact: Sarah Warnock																						
Address: c/o BBE Logistics, 1759 - 35 Ave. East				Email 1: Gregory.Crooks@stantec.com																		
Edmonton Int. Airport, Edmonton, AB T9E 0V6				Email 2: enviro.data@agnicoeagle.com																		
Phone: 867-988-6882 ex102 Fax:																						
Invoice To:								Analysis Request														
Company: Tmac Resources Ltd. (Hope Bay)				Indicate Bottles: Filtered / Preserved (F/P) --->																		
Client / Project Information:																						
Contact: Accounts Payable				Job #:																		
Address: 300 - 181 University Ave., Po Box 33				PO/AFE: 4500017096																		
Toronto, ON M5H 3M7				Legal Site Description:																		
Phone: 416-628-0216 Fax:				Quote #:																		
Lab Work Order # (lab use only)				ALS Contact: Amber Springer		Sampler (Initials): TMAC																
Sample	Sample Identification			Date	Sample Exposure Duration	Sample Type	PM 10											Hazardous?	Highly Contaminated?	Number of Containers		
#	(This description will appear on the report)			dd-mmm-yy	hh:mm	(Select from drop-down list)																
17	25402	XX m^3		29-Dec-20		Air		X														
18	25077			4-Jan-21		Air		X														
19	27814			10-Jan-21		Air		X														
20	17831			16-Jan-21		Air		X														
21	057298			22-Jan-21		Air		X														
22	27579			28-Jan-21		Air		X														
23	27774			3-Feb-21		Air		X														
24	25064			9-Feb-21		Air		X														
25	057304			15-Feb-21		Air		X														
26	27298			21-Feb-21		Air		X														
27	016179			27-Feb-21		Air		X														
28	13080			5-Mar-21		Air		X														
29	015524			11-Mar-21		Air		X														
30	015129			17-Mar-21		Air	X															
31	016166			23-Mar-21		Air	X															
32	034160			29-Mar-21		Air	X															
Guidelines / Regulations				Special Instructions / Hazardous Details																		
NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!																						
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																						
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.																						
Relinquished By:	Patrick Jolliffe	Date & Time:	08-Apr-21	Received By:		Date & Time:		Sample Condition (lab use only)														
Relinquished By:		Date & Time:		Received By:		Date & Time:		Temperature	Samples Received in Good Condition? Y / N (if no provided details)													

Report to:	Report Format / Distribution						Service Requested:													
Company: Tmac Resources Ltd. (Hope Bay)							✓ Regular Service (Default)													
Contact: Sarah Warnock/Kyle Conway							Rush Service (2-3 Days)													
Address: c/o BBE Logistics, 1759 - 35 Ave. East	Email 1: Gregory.Crooks@stantec.com						Priority Service (1 Day or ASAP)													
Edmonton Int. Airport, Edmonton, AB T9E 0V6	Email 2: enviro.data@agnicoeagle.com						Emergency Service (<1 Day / Wkend) - Contact ALS													
Phone: 867-988-6882 ex102 Fax:							Analysis Request													
Invoice To:	Indicate Bottles: Filtered / Preserved (F/P) →→→																			
Company: Tmac Resources Ltd. (Hope Bay)	Client / Project Information:																			
Contact: Accounts Payable	Job #:																			
Address: 300 - 181 University Ave., Po Box 33	PO/AFE: 4500017096																			
Toronto , ON M5H 3M7	Legal Site Description:																			
Phone: 416-628-0216 Fax:	Quote #:																			
Lab Work Order # (lab use only)	ALS Amber Springer Contact:						Sampler (Initials):	TMAC												
Sample	Sample Identification			Date	Sample Exposure Duration	Sample Type	PM 2.5													
#	(This description will appear on the report)			dd-mmm-yy	hh:mm	(Select from drop-down list)														
33	015094	XX m³		29-Dec-20	Air	X														
34	24943			4-Jan-21	Air	X														
35	22664			10-Jan-21	Air	X														
36	27318			16-Jan-21	Air	X														
37	034142			22-Jan-21	Air	X														
38	24917			28-Jan-21	Air	X														
39	034131			3-Feb-21	Air	X														
40	27806			9-Feb-21	Air	X														
41	015272			15-Feb-21	Air	X														
42	24924			21-Feb-21	Air	X														
43	24901			27-Feb-21	Air	X														
44	041647			5-Mar-21	Air	X														
45	041679			11-Mar-21	Air	X														
46	010327			17-Mar-21	Air	X														
47	015115			23-Mar-21	Air	X														
48	034120			29-Mar-21	Air	X														
Guidelines / Regulations						Special Instructions / Hazardous Details														
NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!																				
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																				
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.																				
Relinquished By:	Patrick Jolliffe	Date & Time:	08-Apr-21	Received By:		Date & Time:		Sample Condition (lab use only)												
Relinquished By:		Date & Time:		Received By:		Date & Time:		Temperature	Samples Received in Good Condition? Y / N (if no provided details)											



Environmental Division

Report to:			Report Format / Distribution			Service Requested:			
Company: Tmac Resources Ltd. (Hope Bay)			<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Regular Service (Default)			
Contact: Sarah Warnock			<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Fax			<input type="checkbox"/> Rush Service (2-3 Days)			
Address: c/o BBE Logistics, 1759 - 35 Ave. East			Email 1: Gregory.Crooks@stantec.com			<input type="checkbox"/> Priority Service (1 Day or ASAP)			
Edmonton Int. Airport, Edmonton, AB T9E 0V6			Email 2: enviro_data@agnicoeagle.com			<input type="checkbox"/> Emergency Service (<1 Day / Wkend) - Contact ALS			
Phone: 867-988-6882 ex102 Fax:			Email 3:			Analysis Request			
Invoice To: <input type="checkbox"/> Same as Report			Indicate Bottles: Filtered / Preserved (F/P) _____						
Company: Tmac Resources Ltd. (Hope Bay)			Client / Project Information:						
Contact: Accounts Payable			Job #:						
Address: 300 - 181 University Ave., Po Box 33			PO/AFE: 4500017096						
Toronto, ON M5H 3M7			Legal Site Description:						
Phone: 416-628-0216 Fax:			Quote #:						
Lab Work Order # (lab use only)			ALS Contact: Amber Springer			Sampler (Initials): TMAC			
Sample #	Sample Identification (This description will appear on the report)		Date dd-mm-yy	Sample Exposure Duration hh:mm	Sample Type (Select from drop-down list)	TSP			
1	016168	XX m³	29-Dec-20		Air	X			
2	01579		4-Jan-21		Air	X			
3	27571		10-Jan-21		Air	X			
4	041678		18-Jan-21		Air	X			
5	057305		22-Jan-21		Air	X			
6	27310		28-Jan-21		Air	X			
7	009930		3-Feb-21		Air	X			
8	057312		9-Feb-21		Air	X			
9	27295		15-Feb-21		Air	X			
10	27777		21-Feb-21		Air	X			
11	01560		27-Feb-21		Air	X			
12	016190		5-Mar-21		Air	X			
13	016177		11-Mar-21		Air	X			
14	01562		17-Mar-21		Air	X			
15	034146		23-Mar-21		Air	X			
16	010347		29-Mar-21		Air	X			
Guidelines / Regulations			Special Instructions / Hazardous Details						
			NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!						
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.									
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.									
Relinquished By:	Patrick Jolliffe	Date & Time:	08-Apr-21	Received By:	MA	Date & Time:	Apr 9 15:30	Sample Condition (lab use only)	
Relinquished By:		Date & Time:		Received By:	JC	Date & Time:	Apr 13/21 1320	Temperature: 8°C (avg 5°C over)	
								Samples Received in Good Condition? Y / N (if no provided details)	

Environmental Division
Yellowknife
Work Order Reference
YL2100256



Telephone : +1 867 873 5583

Environmental Division[illegible]

**Environmental Division**

Report to:						Report Format / Distribution											
Company: Tmac Resources Ltd. (Hope Bay)						<input checked="" type="checkbox"/> Regular Service (Default)											
Contact: Sarah Warnock/Kyle Conway						Rush Service (2-3 Days)											
Address: c/o BBE Logistics, 1759 - 35 Ave. East						Priority Service (1 Day or ASAP)											
Edmonton Int. Airport, Edmonton, AB T9E 0V6						Emergency Service (<1 Day / Wkend) - Contact ALS											
Phone: 867-888-6882 ex102 Fax:																	
Invoice To:						Indicate Bottles: Filtered / Preserved (F/P) ---											
Company: Tmac Resources Ltd. (Hope Bay)						Client / Project Information:											
Contact: Accounts Payable						Job #:											
Address: 300 - 181 University Ave., Po Box 33						PO/AFE: 4500017096											
Toronto , ON M5H 3M7						Legal Site Description:											
Phone: 416-628-0216 Fax:						Quote #:											
Lab Work Order # (lab use only)						ALS Amber Springer Contact:											
						Sampler (Initials): TMAC											
Sample	Sample Identification					Date	Sample Exposure Duration	Sample Type					PM 2.5	Hazardous?	Highly Contaminated?	Number of Containers	
#	(This description will appear on the report)					dd-mmm-yy	hh:mm	(Select from drop-down list)									
33	015094	XX m³				29-Dec-20		Air	X								
34	24943					4-Jan-21		Air	X								
35	22664					10-Jan-21		Air	X								
36	27318					16-Jan-21		Air	X								
37	034142					22-Jan-21		Air	X								
38	24917					28-Jan-21		Air	X								
39	034131					3-Feb-21		Air	X								
40	27806					9-Feb-21		Air	X								
41	015272					15-Feb-21		Air	X								
42	24924					21-Feb-21		Air	X								
43	24901					27-Feb-21		Air	X								
44	041647					5-Mar-21		Air	X								
45	041679					11-Mar-21		Air	X								
46	010327					17-Mar-21		Air	X								
47	015115					23-Mar-21		Air	X								
48	034120					29-Mar-21		Air	X								
Guidelines / Regulations						Special Instructions / Hazardous Details											
NOTE: Please do not put the cubic metres of air sampled on the sample identification; only use for analysis!!!!!!																	
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																	
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.																	
Relinquished By:	Patrick Jolliffe	Date & Time:	08-Apr-21	Received By:		Date & Time:		Temperature									Samples Received in Good Condition? Y/N (if no provided details)
Relinquished By:		Date & Time:		Received By:		Date & Time:											

This page intentionally left blank



CERTIFICATE OF ANALYSIS

Work Order	: YL2100750
Client	: TMAC Resources Inc.
Contact	: Environmental Site Manager
Address	: Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33 Toronto ON Canada M5H 3M7
Telephone	: ----
Project	: ----
PO	: 4500022079
C-O-C number	: ----
Sampler	: TMAC
Site	:
Quote number	: Q80651
No. of samples received	: 32
No. of samples analysed	: 32

Page	: 1 of 7
Laboratory	: Yellowknife - Environmental
Account Manager	: Amber Springer
Address	: 314 Old Airport Road, Unit 116 Yellowknife NT Canada X1A 3T3
Telephone	: +1 867 873 5593
Date Samples Received	: 12-Jul-2021 16:25
Date Analysis Commenced	: 19-Jul-2021
Issue Date	: 23-Jul-2021 11:46

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Erin Gatdula	Account Manager Assistant	Administration, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	Description
µg	micrograms
µg/m³	micrograms per cubic metre
L	litres
mg/sample	milligrams per sample

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Air					Client sample ID	22670	15117	15111	15085	15124
(Matrix: Air)					Client sampling date / time	04-Apr-2021	10-Apr-2021	16-Apr-2021	22-Apr-2021	28-Apr-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100750-001	YL2100750-002	YL2100750-003	YL2100750-004	YL2100750-005	
					Result	Result	Result	Result	Result	
Field Tests										
air volume, field	----	EF003	0.010	L	24000	24000	24000	24000	24000	24000
Particulates										
particulate, total	----	E894	50	µg	277	250	167	530	330	
particulate, total	----	EC894	2.0	µg/m³	11.5	10.4	7.0	22.1	13.8	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Air					Client sample ID	15133	15130	15172	41655	41654
(Matrix: Air)					Client sampling date / time	04-May-2021	10-May-2021	16-May-2021	22-May-2021	28-Apr-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100750-006	YL2100750-007	YL2100750-008	YL2100750-009	YL2100750-010	
					Result	Result	Result	Result	Result	
Field Tests										
air volume, field	----	EF003	0.010	L	24000	24000	24000	24000	24000	24000
Particulates										
particulate, total	----	E894	50	µg	123	107	327	193	163	
particulate, total	----	EC894	2.0	µg/m³	5.1	4.4	13.6	8.0	6.8	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Air					Client sample ID	65061	16189	16182	16178	16167
(Matrix: Air)										
					Client sampling date / time	03-Jun-2021	09-Jun-2021	15-Jun-2021	21-Jun-2021	27-Jun-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100750-011	YL2100750-012	YL2100750-013	YL2100750-014	YL2100750-015	
					Result	Result	Result	Result	Result	
Field Tests										
air volume, field	----	EF003	0.010	L	24000	24000	24000	24000	24000	24000
Particulates										
particulate, total	----	E894	50	µg	60	97	87	207	60	
particulate, total	----	EC894	2.0	µg/m³	2.5	4.0	3.6	8.6	2.5	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Air					Client sample ID	14369	034143-24542	14358-15119	16187-16183	24950-16185
(Matrix: Air)										
					Client sampling date / time	03-Jul-2021	04-Apr-2021	10-Apr-2021	16-Apr-2021	22-Apr-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100750-016	YL2100750-017	YL2100750-018	YL2100750-019	YL2100750-020	
					Result	Result	Result	Result	Result	
Field Tests										
air volume, field	----	EF003	0.010	L	24000	----	----	----	----	----
air volume, field, coarse particulate	----	EF005	0.010	L	----	2400	2400	2400	2400	2400
air volume, field, fine particulate	----	EF005	0.010	L	----	21600	21600	21600	21600	21600
Particulates										
particulate, coarse	----	EC886	2.0	µg/m³	----	<2.0	<2.0	<2.0	10.8	
particulate, fine	----	EC886	2.0	µg/m³	----	3.8	2.8	3.4	6.9	
particulate, PM10	----	EC886	3.0	µg/m³	----	3.8	<3.0	3.4	17.7	
particulate, PM2.5	----	EC886	2.0	µg/m³	----	3.8	2.8	3.4	6.9	
particulate, total	----	E894	50	µg	<50	----	----	----	----	
particulate, total	----	EC894	2.0	µg/m³	<2.1	----	----	----	----	
particulate, coarse	----	E886	0.050	mg/sample	----	<0.050	<0.050	<0.050	0.277	
particulate, fine	----	E886	0.050	mg/sample	----	0.083	0.060	0.073	0.150	
particulate, PM10	----	E886	0.075	mg/sample	----	0.083	<0.075	<0.075	0.427	
particulate, PM2.5	----	E886	0.050	mg/sample	----	0.083	0.060	0.073	0.150	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Air

Client sample ID

(Matrix: Air)

					16165-16186	15134-41650	16184-27578	14368-9899	15122-10070
Client sampling date / time					28-Apr-2021	04-May-2021	10-May-2021	16-May-2021	22-May-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100750-021	YL2100750-022	YL2100750-023	YL2100750-024	YL2100750-025
					Result	Result	Result	Result	Result
Field Tests									
air volume, field, coarse particulate	----	EF005	0.010	L	2400	2400	2400	2400	2400
air volume, field, fine particulate	----	EF005	0.010	L	21600	21600	21600	21600	21600
Particulates									
particulate, coarse	----	EC886	2.0	µg/m³	<2.0	2.4	<2.0	9.0	4.0
particulate, fine	----	EC886	2.0	µg/m³	<2.3	3.4	<2.3	5.4	4.2
particulate, PM10	----	EC886	3.0	µg/m³	<3.0	5.8	<3.0	14.4	8.2
particulate, PM2.5	----	EC886	2.0	µg/m³	<2.3	3.4	<2.3	5.4	4.2
particulate, coarse	----	E886	0.050	mg/sample	<0.050	0.067	<0.050	0.230	0.107
particulate, fine	----	E886	0.050	mg/sample	<0.050	0.073	<0.050	0.117	0.090
particulate, PM10	----	E886	0.075	mg/sample	<0.075	0.140	<0.075	0.347	0.197
particulate, PM2.5	----	E886	0.050	mg/sample	<0.050	0.073	<0.050	0.117	0.090

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Air

Client sample ID

Sub-Matrix: Air					Client sample ID	RP27324-14370	15123-14371	27778-41677	27305-15114	66748-15098
(Matrix: Air)										
					Client sampling date / time	28-May-2021	03-Jun-2021	09-Jun-2021	15-Jun-2021	21-Jun-2021
Analyte	CAS Number	Method	LOR	Unit	YL2100750-026	YL2100750-027	YL2100750-028	YL2100750-029	YL2100750-030	
					Result	Result	Result	Result	Result	
Field Tests										
air volume, field, coarse particulate	----	EF005	0.010	L	2400	2400	2400	2400	2400	
air volume, field, fine particulate	----	EF005	0.010	L	21600	21600	21600	21600	21600	
Particulates										
particulate, coarse	----	EC886	2.0	µg/m³	2.8	2.8	3.6	<2.0	5.3	
particulate, fine	----	EC886	2.0	µg/m³	2.8	<2.3	<2.3	2.9	2.6	
particulate, PM10	----	EC886	3.0	µg/m³	5.6	<3.0	3.6	<3.0	7.9	
particulate, PM2.5	----	EC886	2.0	µg/m³	2.8	<2.3	<2.3	2.9	2.6	
particulate, coarse	----	E886	0.050	mg/sample	0.073	0.067	0.087	0.050	0.133	
particulate, fine	----	E886	0.050	mg/sample	0.060	<0.050	<0.050	0.063	0.057	
particulate, PM10	----	E886	0.075	mg/sample	0.133	<0.075	0.087	0.113	0.190	
particulate, PM2.5	----	E886	0.050	mg/sample	0.060	<0.050	<0.050	0.063	0.057	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Air					Client sample ID	15086-27722	15103-27809	----	----	----
(Matrix: Air)										
					Client sampling date / time					
					27-Jun-2021	03-Jul-2021	----	----	----	
Analyte	CAS Number	Method	LOR	Unit	YL2100750-031	YL2100750-032	-----	-----	-----	
					Result	Result	----	----	----	
Field Tests										
air volume, field, coarse particulate	----	EF005	0.010	L	2400	2400	----	----	----	
air volume, field, fine particulate	----	EF005	0.010	L	21600	21600	----	----	----	
Particulates										
particulate, coarse	----	EC886	2.0	µg/m³	<2.0	<2.0	----	----	----	
particulate, fine	----	EC886	2.0	µg/m³	2.9	3.1	----	----	----	
particulate, PM10	----	EC886	3.0	µg/m³	<3.0	3.1	----	----	----	
particulate, PM2.5	----	EC886	2.0	µg/m³	2.9	3.1	----	----	----	
particulate, coarse	----	E886	0.050	mg/sample	<0.050	<0.050	----	----	----	
particulate, fine	----	E886	0.050	mg/sample	0.063	0.067	----	----	----	
particulate, PM10	----	E886	0.075	mg/sample	<0.075	<0.075	----	----	----	
particulate, PM2.5	----	E886	0.050	mg/sample	0.063	0.067	----	----	----	

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: YL2100750	Page	: 1 of 11
Client	: TMAC Resources Inc.	Laboratory	: Yellowknife - Environmental
Contact	: Environmental Site Manager	Account Manager	: Amber Springer
Address	: Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33 Toronto ON Canada M5H 3M7	Address	: 314 Old Airport Road, Unit 116 Yellowknife, Northwest Territories Canada X1A 3T3
Telephone	: ----	Telephone	: +1 867 873 5593
Project	: ----	Date Samples Received	: 12-Jul-2021 16:25
PO	: 4500022079	Issue Date	: 23-Jul-2021 11:46
C-O-C number	: ----		
Sampler	: TMAC		
Site	:		
Quote number	: Q80651		
No. of samples received	: 32		
No. of samples analysed	: 32		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 034143-24542	EF005	04-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 14358-15119	EF005	10-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 14368-9899	EF005	16-May-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 15086-27722	EF005	27-Jun-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 15103-27809	EF005	03-Jul-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 15122-10070	EF005	22-May-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 15123-14371	EF005	03-Jun-2021	----	----	----		19-Jul-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 15134-41650	EF005	04-May-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 16165-16186	EF005	28-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 16184-27578	EF005	10-May-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 16187-16183	EF005	16-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 24950-16185	EF005	22-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 27305-15114	EF005	15-Jun-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 27778-41677	EF005	09-Jun-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter 66748-15098	EF005	21-Jun-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume for Particulate (Dichotomous)										
Filter RP27324-14370	EF005	28-May-2021	----	----	----		19-Jul-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Air Sampling Volume										
Thermal desorption tube 14369	EF003	03-Jul-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 15085	EF003	22-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 15111	EF003	16-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 15117	EF003	10-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 15124	EF003	28-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 15130	EF003	10-May-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 15133	EF003	04-May-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 15172	EF003	16-May-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 16167	EF003	27-Jun-2021	----	----	----		19-Jul-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Air Sampling Volume										
Thermal desorption tube 16178	EF003	21-Jun-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 16182	EF003	15-Jun-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 16189	EF003	09-Jun-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 22670	EF003	04-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 41654	EF003	28-Apr-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 41655	EF003	22-May-2021	----	----	----		19-Jul-2021	----	----	
Field Tests : Air Sampling Volume										
Thermal desorption tube 65061	EF003	03-Jun-2021	----	----	----		19-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 034143-24542	E886	04-Apr-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 14358-15119	E886	10-Apr-2021	----	----	----		22-Jul-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 14368-9899	E886	16-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 15086-27722	E886	27-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 15103-27809	E886	03-Jul-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 15122-10070	E886	22-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 15123-14371	E886	03-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 15134-41650	E886	04-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 16165-16186	E886	28-Apr-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 16184-27578	E886	10-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 16187-16183	E886	16-Apr-2021	----	----	----		22-Jul-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 24950-16185	E886	22-Apr-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 27305-15114	E886	15-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 27778-41677	E886	09-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette 66748-15098	E886	21-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Particulates Dichotomous by Gravimetry (mg/sample)										
Cassette RP27324-14370	E886	28-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 14369	E894	03-Jul-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 15085	E894	22-Apr-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 15111	E894	16-Apr-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 15117	E894	10-Apr-2021	----	----	----		22-Jul-2021	----	----	



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 15124	E894	28-Apr-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 15130	E894	10-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 15133	E894	04-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 15172	E894	16-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 16167	E894	27-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 16178	E894	21-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 16182	E894	15-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 16189	E894	09-Jun-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 22670	E894	04-Apr-2021	----	----	----		22-Jul-2021	----	----	



Matrix: **Air** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 41654	E894	28-Apr-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 41655	E894	22-May-2021	----	----	----		22-Jul-2021	----	----	
Particulates : Total Particulate (TP) by Gravimetry										
Filter 65061	E894	03-Jun-2021	----	----	----		22-Jul-2021	----	----	

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
<i>Analytical Methods</i>	<i>Method</i>	<i>QC Lot #</i>	<i>QC</i>	<i>Regular</i>	<i>Actual</i>	<i>Expected</i>	<i>Evaluation</i>
Laboratory Duplicates (DUP)							
Particulates Dichotomous by Gravimetry (mg/sample)	E886	249382	1	16	6.2	5.0	✔
Total Particulate (TP) by Gravimetry	E894	249383	1	16	6.2	5.0	✔
Method Blanks (MB)							
Particulates Dichotomous by Gravimetry (mg/sample)	E886	249382	1	16	6.2	5.0	✔
Total Particulate (TP) by Gravimetry	E894	249383	1	16	6.2	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Particulates Dichotomous by Gravimetry (mg/sample)	E886 Vancouver - Environmental	Air	BC Lab Manual - Total Particulate	Total Particulate Matter (PM10) Method analysis is carried out in accordance with the BCMOE Lab Manual, Section G Air Constituents - Inorganics, "Total Particulate - PM10/PM02 - 47mm - HiVol" method. ALS provides pre-weighed filters (Pallflex TX40 HI20-WW 47mm) and clients typically sample using a "Dichotomus Partisol sequential Air Sampler" equivalent sample (EQPS-0509-179, EQPS-0509-180, EQPS-0311-198) as per U.S. EPA Reference Method RFPS-0694-098, fitted with a PM10 inlet. The particulate matter is determined gravimetrically. Three formulas are required for the mass concentration(um/M3)computation of fine PM(PM-2.5) Course PM (PM-10 minus PM2.5) and PM-10.
Total Particulate (TP) by Gravimetry	E894 Vancouver - Environmental	Air	BC Lab Manual - Total Particulate	Total Particulate Matter (TP) Method of analysis is modified from the BCMOE Lab Manual, Section G Air Constituents - Inorganics, "Total Particulate - PM10/PM02 - 47mm - HiVol" method. ALS provides pre-weighed filters (Pallflex TX40 HI20-WW 47mm) and clients typically sample using a "Partisol Model 2000 Air Sampler" as per U.S. EPA Reference Method RFPS-0694-098, fitted with a TSP inlet. The particulate matter is determined gravimetrically.
Particulates Dichotomous by Gravimetry (ug/m3)	EC886 Vancouver - Environmental	Air	BC Lab Manual - Total Particulate	Total Particulate Matter (PM10) Method analysis is carried out in accordance with the BCMOE Lab Manual, Section G Air Constituents - Inorganics, "Total Particulate - PM10/PM02 - 47mm - HiVol" method. ALS provides pre-weighed filters (Pallflex TX40 HI20-WW 47mm) and clients typically sample using a "Dichotomus Partisol sequential Air Sampler" equivalent sample (EQPS-0509-179, EQPS-0509-180, EQPS-0311-198) as per U.S. EPA Reference Method RFPS-0694-098, fitted with a PM10 inlet. The particulate matter is determined gravimetrically. Three formulas are required for the mass concentration(um/M3)computation of fine PM(PM-2.5) Course PM (PM-10 minus PM2.5) and PM-10.
Total Particulate (TP) by Gravimetry in air volume units	EC894 Vancouver - Environmental	Air	BC Lab Manual - Total Particulate	Total Particulate Matter (TSP) Method of analysis is modified from the BCMOE Lab Manual, Section G Air Constituents - Inorganics, "Total Particulate - PM10/PM02 - 47mm - HiVol" method. ALS provides pre-weighed filters (Pallflex TX40 HI20-WW 47mm) and clients typically sample using a "Partisol Model 2000 Air Sampler" as per U.S. EPA Reference Method RFPS-0694-098, fitted with a TSP inlet. The particulate matter is determined gravimetrically.
Air Sampling Volume	EF003 Vancouver - Environmental	Air		Field measurement of sampling volume provided by client and recorded on ALS report may affect the validity of results.
Air Sampling Volume for Particulate (Dichotomous)	EF005 Vancouver - Environmental	Air	Field measurements supplied by client	Field measurement of sampling volume provided by client and recorded on ALS report may affect the validity of results

QUALITY CONTROL REPORT

Work Order : **YL2100750**

Page : 1 of 3

Client : TMAC Resources Inc.
Contact : Environmental Site Manager
Address : Hope Bay Project Suite 300, 181 University Avenue P.O. Box 33
 Toronto ON Canada M5H 3M7
Telephone : ----
Project : ----
PO : 4500022079
C-O-C number : ----
Sampler : TMAC
Site :
Quote number : Q80651
No. of samples received : 32
No. of samples analysed : 32

Laboratory : Yellowknife - Environmental
Account Manager : Amber Springer
Address : 314 Old Airport Road, Unit 116
 Yellowknife, Northwest Territories Canada X1A 3T3
Telephone : +1 867 873 5593
Date Samples Received : 12-Jul-2021 16:25
Date Analysis Commenced : 19-Jul-2021
Issue Date : 23-Jul-2021 11:46

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits
- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Erin Gatdula	Account Manager Assistant	Administration, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

- Key :
- Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
 - CAS Number = Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
 - DQO = Data Quality Objective.
 - LOR = Limit of Reporting (detection limit).
 - RPD = Relative Percentage Difference
 - # = Indicates a QC result that did not meet the ALS DQO.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

Sub-Matrix: Air					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Particulates (QC Lot: 249382)											
YL2100750-017	034143-24542	particulate, coarse	----	E886	0.050	mg/sample	<0.050	<0.050	0	Diff <2x LOR	----
		particulate, fine	----	E886	0.050	mg/sample	0.083	0.090	0.007	Diff <2x LOR	----
		particulate, PM10	----	E886	0.075	mg/sample	0.083	0.090	0.007	Diff <2x LOR	----
Particulates (QC Lot: 249383)											
YL2100750-001	22670	particulate, total	----	E894	50	µg	277	277	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Particulates (QCLot: 249382)						
particulate, coarse	----	E886	0.05	mg/sample	<0.050	----
particulate, fine	----	E886	0.05	mg/sample	<0.050	----
particulate, PM10	----	E886	0.075	mg/sample	<0.075	----
Particulates (QCLot: 249383)						
particulate, total	----	E894	50	µg	<50	----

Report to:			Report Format / Distribution			Service Requested:		
Company: Tmac Resources Ltd. (Hope Bay)			<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Regular Service (Default)		
Contact: Sarah Warnock			<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Fax			<input type="checkbox"/> Rush Service (2-3 Days)		
Address: c/o BBE Logistics, 1759 - 35 Ave. East			Email 1: Gregory.Crooks@stantec.com			<input type="checkbox"/> Priority Service (1 Day or ASAP)		
Edmonton Int. Airport, Edmonton, AB T9E 0V6			Email 2: enviro.tmacresources.com			<input type="checkbox"/> Emergency Service (<1 Day / Wkend) - Contact ALS		
Phone: 867-988-6882 ex102 Fax:			Email 3: sarah.warnock@tmacresources.com			Analysis Request		
Invoice To: <input type="checkbox"/> Same as Report			Indicate Bottles: Filtered / Preserved (FrP) →					
Company: Tmac Resources Ltd. (Hope Bay)			Client / Project Information:					
Contact: Accounts Payable			Job #:					
Address: 300 - 181 University Ave., Po Box 33			PO/AFE: 4500022079					
Toronto, ON M5H 3M7			Legal Site Description:					
Phone: 416-628-0216 Fax:			Quote #:					
Lab Work Order # (lab use only)			ALS Contact:		Amber Springer	Sampler (Initials):		TMAC
Sample	Sample Identification		Date	Sample Exposure Duration		Sample Type		TSP
#	(This description will appear on the report)		dd-mm-yy	hh:mm		(Select from drop-down list)		
	22670	XX m³	4-Apr-21			Air		X
	15117		10-Apr-21			Air		X
	15111		16-Apr-21			Air		X
	15085		22-Apr-21			Air		X
	15124		28-Apr-21			Air		X
	15133		4-May-21			Air		X
	15130		10-May-21			Air		X
	15172		16-May-21			Air		X
	41655		22-May-21			Air		X
	41654		28-May-21			Air		X
	65081		3-Jun-21			Air		X
	16189		9-Jun-21			Air		X
	16182		15-Jun-21			Air		X
	16178		21-Jun-21			Air		X
	16167		27-Jun-21			Air		X
	14369		3-Jul-21			Air		X
Guidelines / Regulations			Special Instructions / Hazardous Details					
NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!								
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.								
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.								
Relinquished By:	Sarah Warnock	Date & Time:		Received By:		Date & Time:		Sample Condition (lab use only) Temperature: _____ Samples Received in Good Condition? Y / N (if no provided details)
Relinquished By:		Date & Time:		Received By:		Date & Time:		

**Environmental Division**

Report to:						Report Format / Distribution								Service Requested:																
Company: Tmac Resources Ltd. (Hope Bay)														<input checked="" type="checkbox"/> Regular Service (Default)																
Contact: Sarah Warnock/Kyle Conway														Rush Service (2-3 Days)																
Address: c/o BBE Logistics, 1759 - 35 Ave. East						Email 1: Gregory.Crooks@slantec.com								Priority Service (1 Day or ASAP)																
Edmonton Int. Airport, Edmonton, AB T9E 0V6						Email 2: enviro.tmacresources.com								Emergency Service (<1 Day / Wkend) - Contact ALS																
Phone: 867-988-6882 ex102 Fax:														Analysis Request																
Invoice To:						Indicate Bottles: Filtered / Preserved (F/P) -->																								
Company: Tmac Resources Ltd. (Hope Bay)						Client / Project Information:																								
Contact: Accounts Payable						Job #:																								
Address: 300 - 181 University Ave., Po Box 33						PO/AFE: 4500022079																								
Toronto , ON M5H 3M7						Legal Site Description:																								
Phone: 416-628-0216 Fax:						Quote #:																								
Lab Work Order # (lab use only)						ALS Contact: Amber Springer								Sampler (Initials): TMAC																
Sample	Sample Identification					Date	Sample Exposure Duration	Sample Type		PM 10									Hazardous?	Highly Contaminated?	Number of Containers									
#	(This description will appear on the report)					dd-mmm-yy	hh:mm	(Select from drop-down list)																						
	034143	XX m³				4-Apr-21		Air	X																					
	14358					10-Apr-21		Air	X																					
	16187					16-Apr-21		Air	X																					
	24950					22-Apr-21		Air	X																					
	16165					28-Apr-21		Air	X																					
	15134					4-May-21		Air	X																					
	16184					10-May-21		Air	X																					
	14368					16-May-21		Air	X																					
	15122					22-May-21		Air	X																					
	RP 27324					28-May-21		Air	X																					
	15123					3-Jun-21		Air	X																					
	27778					9-Jun-21		Air	X																					
	27305					15-Jun-21		Air	X																					
	66748					21-Jun-21		Air	X																					
	15086					27-Jun-21		Air	X																					
	15103					3-Jul-21		Air	X																					
Guidelines / Regulations						Special Instructions / Hazardous Details																								
NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!																														
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																														
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.																														
Relinquished By:		Date & Time:		Received By:		Date & Time:		Sample Condition (lab use only)																						
Relinquished By:		Date & Time:		Received By:		Date & Time:		Temperature	Samples Received in Good Condition? Y / N (if no provided details)																					

**Environmental Division**

Report to:				Report Format / Distribution				Service Requested:												
Company: Tmac Resources Ltd. (Hope Bay)								✓ Regular Service (Default)												
Contact: Sarah Wamock/Kyle Conway								Rush Service (2-3 Days)												
Address: c/o BBE Logistics, 1759 - 35 Ave. East				Email 1: Gregory.Crooks@stantec.com				Priority Service (1 Day or ASAP)												
Edmonton IntL Airport, Edmonton, AB T9E 0V6				Email 2: enviro.tmacresources.com				Emergency Service (<1 Day / Weekend) - Contact ALS												
Phone: 857-988-6882 ex102 Fax:								Analysis Request												
Invoice To:				Indicate Bottles: Filtered / Preserved (F/P) →→																
Company: Tmac Resources Ltd. (Hope Bay)				Client / Project Information:																
Contact: Accounts Payable				Job #:																
Address: 300 - 181 University Ave., Po Box 33				PO/AFE: 4500022079																
Toronto , ON M5H 3M7				Legal Site Description:																
Phone: 416-628-0216 Fax:				Quote #:																
Lab Work Order # (lab use only)				ALS Contact: Amber Springer				Sampler (Initials): TMAC												
Sample #	Sample Identification (This description will appear on the report)			Date dd-mmm-yy	Sample Exposure Duration hh:mm	Sample Type (Select from drop-down list)	PM 2.5											Hazardous?	Highly Contaminated?	
	24542	XX m³		4-Apr-21		Air	X													
	15119			10-Apr-21		Air	X													
	16183			16-Apr-21		Air	X													
	16185			22-Apr-21		Air	X													
	16186			28-Apr-21		Air	X													
	41650			4-May-21		Air	X													
	27578			10-May-21		Air	X													
	9899			16-May-21		Air	X													
	10070			22-May-21		Air	X													
	14370			28-May-21		Air	X													
	14371			3-Jun-21		Air	X													
	41677			9-Jun-21		Air	X													
	15114			15-Jun-21		Air	X													
	15098			21-Jun-21		Air	X													
	27722			27-Jun-21		Air	X													
	27809			3-Jul-21		Air	X													
Guidelines / Regulations				Special Instructions / Hazardous Details																
				NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!																
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																				
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.																				
Relinquished By:	Date & Time:		Received By:	Date & Time:		Sample Condition (lab use only)														
						Temperature	Samples Received in Good Condition? Y / N (if no provided details)													
Relinquished By:	Date & Time:		Received By:	Date & Time:																

Report to:	Report Format / Distribution							Service Requested:											
Company: Tmac Resources Ltd. (Hope Bay)	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other							<input checked="" type="checkbox"/> Regular Service (Default)											
Contact: Sarah Warnock	<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Fax							<input type="checkbox"/> Rush Service (2-3 Days)											
Address: c/o BBE Logistics, 1759 - 35 Ave. East	Email 1: Gregory.Crooks@stantec.com							<input type="checkbox"/> Priority Service (1 Day or ASAP)											
Edmonton Int. Airport, Edmonton, AB T9E 0V6	Email 2: enviro.tmacresources.com							<input type="checkbox"/> Emergency Service (<1 Day / Wkend) - Contact ALS											
Phone: 867-988-6882 ex102 Fax:	Email 3: sarah.warnock@tmacresources.com																		
Invoice To: <input type="checkbox"/> Same as Report								Analysis Request											
Indicate Bottles: Filtered / Preserved (F/P) →→																			
Company: Tmac Resources Ltd. (Hope Bay) Contact: Accounts Payable Address: 300 - 181 University Ave., Po Box 33 Toronto, ON M5H 3M7 Phone: 416-628-0216 Fax:								Client / Project Information: Job #: PO/AFE: 4500022079 Legal Site Description: Quote #:											
Lab Work Order # (lab use only)								ALS Contact: Amber Springer		Sampler (Initials): TMAC									
Sample #	Sample Identification <small>(This description will appear on the report)</small>			Date <small>dd-mmm-yy</small>	Sample Exposure Duration <small>hh:mm</small>	Sample Type <small>(Select from drop-down list)</small>	TSP												
	22670	XX m^3		4-Apr-21		Air	X										Hazardous?	Highly Contaminated?	Number of Containers
	15117			10-Apr-21		Air	X												
	15111			16-Apr-21		Air	X												
	15085			22-Apr-21		Air	X												
	15124			28-Apr-21		Air	X												
	15133			4-May-21		Air	X												
	15130			10-May-21		Air	X												
	15172			16-May-21		Air	X												
	41655			22-May-21		Air	X												
	41654			28-May-21		Air	X												
	65061			3-Jun-21		Air	X												
	16189			9-Jun-21		Air	X												
	16182			15-Jun-21		Air	X												
	16178			21-Jun-21		Air	X												
	16167			27-Jun-21		Air	X												
	14369			3-Jul-21		Air	X												
Guidelines / Regulations				Special Instructions / Hazardous Details															
NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!!!																			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																			
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.																			
Relinquished By:	Sarah Warnock	Date & Time:		Received By:	KS ice packs	Date & Time:	JUL 15, 2021 1:15pm	Sample Condition (lab use only)											
Relinquished By:		Date & Time:		Received By:		Date & Time:		Temperature	13, 13, 13, 14C	Samples Received in Good Condition? Y/N (if no provided details)									

[illegible]



Environmental Division

Report to:				Report Format / Distribution				Service Requested:													
Company: Tmac Resources Ltd. (Hope Bay)								<input checked="" type="checkbox"/> Regular Service (Default)													
Contact: Sarah Warnock/Kyle Conway								Rush Service (2-3 Days)													
Address: c/o BBE Logistics, 1759 - 35 Ave. East				Email 1: Gregory.Crooks@stantec.com				Priority Service (1 Day or ASAP)													
Edmonton Int. Airport, Edmonton, AB T9E 0V6				Email 2: enviro.tmacresources.com				Emergency Service (<1 Day / Wkend) - Contact ALS													
Phone: 867-988-6882 ex102 Fax:								Analysis Request													
Invoice To:				Indicate Bottles: Filtered / Preserved (F/P) →																	
Company: Tmac Resources Ltd. (Hope Bay)				Client / Project Information:																	
Contact: Accounts Payable				Job #:																	
Address: 300 - 181 University Ave., Po Box 33				PO/AFE: 4500022079																	
Toronto, ON M5H 3M7				Legal Site Description:																	
Phone: 416-628-0216 Fax:				Quote #:																	
Lab Work Order # (lab use only)				ALS Contact: Amber Springer		Sampler (Initials): TMAC															
Sample	Sample Identification			Date	Sample Exposure Duration	Sample Type	PM 2.5											Hazardous?	Highly Contaminated?	Number of Containers	
#	(This description will appear on the report)			dd-mmm-yy	hh:mm	(Select from drop-down list)															
	24542	XX m³		4-Apr-21		Air		X													
	15119			10-Apr-21		Air		X													
	16183			16-Apr-21		Air		X													
	16185			22-Apr-21		Air		X													
	16186			28-Apr-21		Air		X													
	41650			4-May-21		Air		X													
	27578			10-May-21		Air		X													
	9899			16-May-21		Air		X													
	10070			22-May-21		Air		X													
	14370			28-May-21		Air		X													
	14371			3-Jun-21		Air		X													
	41677			9-Jun-21		Air		X													
	15114			15-Jun-21		Air		X													
	15098			21-Jun-21		Air		X													
	27722			27-Jun-21		Air		X													
	27809			3-Jul-21		Air		X													
Guidelines / Regulations				Special Instructions / Hazardous Details																	
NOTE: Please do not put the cubic metres of air sampled on the sample identification, only use for analysis!!!!																					
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																					
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.																					
Relinquished By:	Date & Time:	Received By:	Date & Time:	Date & Time: 30/15/2021		Sample Condition (lab use only)															
Relinquished By:	Date & Time:	Received By:	Date & Time:			Temperature: Samples Received in Good Condition? Y / N (if no provided details)															

This page intentionally left blank

APPENDIX C

Partisol Sampler Calibration Records

This page intentionally left blank

2025D (PM10/PM2.5) Partisol Calibration Inspection

Instrument Serial Number 202DA202970801		
Date	26-Sep-20	
Time	14:30	
Partisol Sampler Date	26-Sep-20	
Partisol Sampler Time	14:45	
Error Codes (Top Left Hand Corner)	ZRR	
Mode (Top Right Hand Corner)	DONE	
Next sampling date	30-Sep-20	
PM10 Low Flow (front)	PM2.5 (back)	
Top Filter in Supply Magazine O14360	Top Filter in Supply Magazine 16181	First filter of Sept-Dec set
Top Filter in Receiving Magazine 25077	Top Filter in Receiving Magazine O34142	Last filter of Jun-Sept set
Filter in Sample Position O15103	Filter in Sample Position 27809	

Description	As found on Audit Screen	Standard as Measured	Variance	Allowable variance	Adjusted Final to variance
Ambient Air Temperature		5.4	6.1	0.70 +/- 2°C	6.10
Ambient Pressure		757	755.6	1.40 +/- 10 mmHg	-755.60
Filter Compartment Temp #1		27.6	28.5	0.90 +/- 2°C	28.50
Filter Compartment Temp #2		27	28.5	1.50 +/- 2°C	28.50
External Leak Check		8		Pass 25 mmHg	Pass
Ambient Relative Humidity				#DIV/0! +/- 1.5%	#DIV/0!

Vseal maintenance completed

Initial Flow #1 Verification (before Calibration)	15.04	15	-0.27%	+/- 5%	
Flow #1 Calibration, point 1			#DIV/0!	+/- 5%	#DIV/0!
Flow #1 Calibration, point 2			#DIV/0!	+/- 5%	#DIV/0!
Flow #1 Calibration, point 3			#DIV/0!	+/- 5%	#DIV/0!
Final Flow #1 Verification (after Calibration)			#DIV/0!	+/- 5%	#DIV/0!

Initial Flow #2 Verification (before Calibration)	1.7	1.67	-1.76%	+/- 5%	
Flow #2 Calibration, point 1			#DIV/0!	+/- 5%	#DIV/0!
Flow #2 Calibration, point 2			#DIV/0!	+/- 5%	#DIV/0!
Flow #2 Calibration, point 3			#DIV/0!	+/- 5%	#DIV/0!
Final Flow #2 Verification (after Calibration)			#DIV/0!	+/- 5%	#DIV/0!

Standards Used	Description	S/N	Calibration Date
Flow	Flow Transfer Standard	70519	14-Dec-16
Temperature	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Pressure	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Relative Humidity	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Technical Data			

Calibration Complete By

Signature: _____

Maintenance Work	Frequency
Inspect and Clean "V" Seals and O-Rings	Every 3 months
Exchange Particle Trap filter	Every 6 months
Replace Batteries	Every 6-12 months
Exchange Fuses	As needed
Cleaning Air Intake Filters	Every 6 months
Rebuild Pumps	Every 6 months
Clean TSP Sample Inlet and Tube	Every 3 months

Sensor Calibration	Current	Actual	Offset
Amb Temp			
Amb Pres			
Amb RH			
Filt Comp			
Filter 1			
Filter 2			

2025D (PM10/PM2.5) Partisol Calibration Inspection

Instrument Serial Number 202DA202970801

Date 8-Nov-20

Time 15:00

Partisol Sampler Date 8-Nov-20

Partisol Sampler Time 16:15

Error Codes (Top Left Hand Corner) RR

Mode (Top Right Hand Corner) WAIT

Next sampling date 11-Nov-20

PM10 Low Flow (front)

Top Filter in Supply Magazine O15122

Top Filter in Receiving Magazine RP027324

Filter in Sample Position O14368

PM2.5 (back)

Top Filter in Supply Magazine O10070

Top Filter in Receiving Magazine O14371

Filter in Sample Position O0988

Description	As found on Audit Screen	Standard as Measured	Variance	Allowable variance	Adjusted Final to variance
Ambient Air Temperature	-2.7	-3	-0.30	+/- 2°C	-3.00 Calibrated
Ambient Pressure	753	752	1.00	+/- 10 mmHg	-752.00 Calibrated
Filter Compartment Temp #1	20.8	20.6	-0.20	+/- 2°C	20.60 Calibrated
Filter Compartment Temp #2	20.4	20.7	0.30	+/- 2°C	20.70 Calibrated
External Leak Check	12		Pass	25 mmHg	Pass V seal maintenance completed
Ambient Relative Humidity	17.2	36.5	112.21%	+/- 1.5%	-100.00% Would not calibrate. Constant out of range.

Initial Flow #1 Verification (before Calibration)	15.04	15	-0.27%	+/- 5%	
Flow #1 Calibration, point 1	14.92	15	0.54%	+/- 5%	-100.00%
Flow #1 Calibration, point 2	13.5	13.5	0.00%	+/- 5%	-100.00%
Flow #1 Calibration, point 3	16.6	16.5	-0.60%	+/- 5%	-100.00%
Final Flow #1 Verification (after Calibration)	15.02	15	-0.13%	+/- 5%	-0.13%

Initial Flow #2 Verification (before Calibration)	1.79	1.67	-6.70%	+/- 5%	
Flow #2 Calibration, point 1	1.9	1.67	-12.11%	+/- 5%	-100.00%
Flow #2 Calibration, point 2	1.55	1.5	-3.23%	+/- 5%	-100.00%
Flow #2 Calibration, point 3	1.9	1.84	-3.16%	+/- 5%	-100.00%
Final Flow #2 Verification (after Calibration)	1.73	1.67	-3.47%	+/- 5%	-3.47%

Standards Used	Description	S/N	Calibration Date
Flow	Flow Transfer Standard	70519	14-Dec-16
Temperature	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Pressure	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Relative Humidity	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Technical Data			

Calibration Complete By

Signature: _____

Maintenance Work

Inspect and Clean "V" Seals and O-Rings

Exchange Particle Trap filter

Replace Batteries

Exchange Fuses

Cleaning Air Intake Filters

Rebuild Pumps

Clean TSP Sample Inlet and Tube

Frequency

Every 3 months

Every 6 months

Every 6-12 months

As needed

Every 6 months

Every 6 months

Every 3 months

Sensor Calibration

Current

Actual

Offset

Amb Temp	-2.7	-3	2.85	
Amb Pres	753	752	-3.9	
Amb RH	17.2	36.5		Would not calibrate. Constant out of range.
Filt Comp	20.4	20.5	0.23	
Filter 1	20.8	20.6	1.56	
Filter 2	20.4	20.7	0.83	

2025D (PM10/PM2.5) Partisol Calibration Inspection

Instrument Serial Number 202DA202970801
 Date 19-Dec-20
 Time 14:40
 Partisol Sampler Date 19-Dec-20
 Partisol Sampler Time 15:50
 Error Codes (Top Left Hand Corner) RR
 Mode (Top Right Hand Corner) WAIT
 Next sampling date 23-Dec-20
 PM10 Low Flow (front)
 Top Filter in Supply Magazine 25302
 Top Filter in Receiving Magazine O14358
 Filter in Sample Position O16187

PM2.5 (back)
 Top Filter in Supply Magazine O15094
 Top Filter in Receiving Magazine O15119
 Filter in Sample Position O16183

Description	As found on Audit Screen	Standard as Measured	Variance	Allowable variance	Adjusted Final to variance
Ambient Air Temperature	-34.2	-32.1	2.10	+/- 2°C	-32.10 Sensor calibrated
Ambient Pressure	756	755.7	0.30	+/- 10 mmHg	-755.70
Filter Compartment Temp #1	20.8	20.1	-0.70	+/- 2°C	20.10
Filter Compartment Temp #2	20.4	20.1	-0.30	+/- 2°C	20.10
External Leak Check	5		Pass	25 mmHg	Pass
Ambient Relative Humidity	17.2		-100.00%	+/- 1.5%	#DIV/0!

Initial Flow #1 Verification (before Calibration)	15.91	15	-5.72%	+/- 5%	Flow calibrated
Flow #1 Calibration, point 1	15.89	15	-5.60%	+/- 5%	-100.00%
Flow #1 Calibration, point 2	13.21	13.5	2.20%	+/- 5%	-100.00%
Flow #1 Calibration, point 3	16.16	16.5	2.10%	+/- 5%	-100.00%
Final Flow #1 Verification (after Calibration)	14.79	15	1.42%	+/- 5%	1.42%

Initial Flow #2 Verification (before Calibration)	1.87	1.67	-10.70%	+/- 5%	Flow calibrated
Flow #2 Calibration, point 1	1.67	1.67	0.00%	+/- 5%	-100.00%
Flow #2 Calibration, point 2	1.45	1.5	3.45%	+/- 5%	-100.00%
Flow #2 Calibration, point 3	1.78	1.84	3.37%	+/- 5%	-100.00%
Final Flow #2 Verification (after Calibration)	1.67	1.67	0.00%	+/- 5%	0.00%

Standards Used	Description	S/N	Calibration Date
Flow	Flow Transfer Standard	70519	14-Dec-16
Temperature	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Pressure	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Relative Humidity	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16
Technical Data			

Calibration Complete By

Signature: _____

Maintenance Work	Frequency
Inspect and Clean "V" Seals and O-Rings	Every 3 months
Exchange Particle Trap filter	Every 6 months
Replace Batteries	Every 6-12 months
Exchange Fuses	As needed
Cleaning Air Intake Filters	Every 6 months
Rebuild Pumps	Every 6 months
Clean TSP Sample Inlet and Tube	Every 3 months

Sensor Calibration	Current	Actual	Offset
Amb Temp	-34.2	-32.1	4.93
Amb Pres			
Amb RH			
Filt Comp			
Filter 1			
Filter 2			

2025D (PM10/PM2.5) Partisol Calibration Inspection

Instrument Serial Number 202DA202970801
Date 13-Mar-21
Time 9:35
Partisol Sampler Date 13-Mar-21
Partisol Sampler Time 10:50
Error Codes (Top Left Hand Corner) RR
Mode (Top Right Hand Corner) WAIT
Next sampling date 17-Mar-21
PM10 Low Flow (front)
Top Filter in Supply Magazine O15129
Top Filter in Receiving Magazine O15524
Filter in Sample Position O34160

PM2.5 (back)
Top Filter in Supply Magazine O10327
Top Filter in Receiving Magazine O41679
Filter in Sample Position O34120

Description	As found on Audit Screen	Standard as Measured	Variance	Allowable variance	Adjusted Final to variance
Ambient Air Temperature	-21	-20.8	0.20	+/- 2°C	-20.80
Ambient Pressure	776	777.7	-1.70	+/- 10 mmHg	-777.70
Filter Compartment Temp #1	12.5	11.6	-0.90	+/- 2°C	11.60
Filter Compartment Temp #2	12.8	12.3	-0.50	+/- 2°C	12.30
External Leak Check	16		Pass	25 mmHg	Pass
Ambient Relative Humidity			#DIV/0!	+/- 1.5%	#DIV/0!
Initial Flow #1 Verification (before Calibration)	14.22	15	5.49%	+/- 5%	
Flow #1 Calibration, point 1	15.22	15	-1.45%	+/- 5%	-100.00%
Flow #1 Calibration, point 2	13.4	13.5	0.75%	+/- 5%	-100.00%
Flow #1 Calibration, point 3	16.4	16.5	0.61%	+/- 5%	-100.00%
Final Flow #1 Verification (after Calibration)	14.86	15	0.94%	+/- 5%	0.94%
Initial Flow #2 Verification (before Calibration)	1.64	1.67	1.83%	+/- 5%	
Flow #2 Calibration, point 1			#DIV/0!	+/- 5%	#DIV/0!
Flow #2 Calibration, point 2			#DIV/0!	+/- 5%	#DIV/0!
Flow #2 Calibration, point 3			#DIV/0!	+/- 5%	#DIV/0!
Final Flow #2 Verification (after Calibration)			#DIV/0!	+/- 5%	#DIV/0!
Standards Used	Description	S/N	Calibration Date		
Flow	Flow Transfer Standard	70519	14-Dec-16		
Temperature	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16		
Pressure	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16		
Relative Humidity	Hygro/Therm/Baro/Dew Point Pen	160371938	15-Apr-16		
Technical Data					

Calibration Complete By

Signature: _____

Maintenance Work	Frequency
Inspect and Clean "V" Seals and O-Rings	Every 3 months
Exchange Particle Trap filter	Every 6 months
Replace Batteries	Every 6-12 months
Exchange Fuses	As needed
Cleaning Air Intake Filters	Every 6 months
Rebuild Pumps	Every 6 months
Clean TSP Sample Inlet and Tube	Every 3 months

Sensor Calibration	Current	Actual	Offset
Amb Temp			
Amb Pres			
Amb RH			
Filt Comp			
Filter 1			
Filter 2			

2025 (TSP) Partisol Calibration Inspection

Instrument Serial Number 2025B221230801

Date 8-Nov-20

Time 15:00

Partisol Sampler Date 8-Nov-20

Partisol Sampler Time 13:45

Error Codes (Top Left Hand Corner) R

Mode (Top Right Hand Corner) WAIT

Next sampling date 11-Nov-20

Top Filter in Supply Magazine O15111

Top Filter in Receiving Magazine O15133

Filter in Sample Position O16182

Description	As found	Standard	As found variance	Allowable variance	Adjusted to	Final variance	Comments
Ambient Air Temperature	-0.4	-2.3	-1.90	+/- 2°C		-2.30	Calibrated sensor
Ambient Pressure	752	752.3	-0.30	+/- 10 mmHg		-752.30	Calibrated sensor
Filter Compartment Temp	20.1	20.1	0.00	+/- 2°C		20.10	Calibrated sensor
External Leak Check	21			25 mmHg		Pass	V seal maintenance completed
Ambient Relative Humidity	12.8	22.5	75.78%	+/- 1.5%		-100.00%	
Initial Flow Verification (before Calibration)	16.58	16.7	0.72%				
Flow Calibration, point 1	17.07	16.7	-2.17%	+/- 5%		-100.00%	
Flow Calibration, point 2	14.87	15	0.87%	+/- 5%		-100.00%	
Flow Calibration, point 3	18.27	18.4	0.71%	+/- 5%		-100.00%	
Final Flow Verification (after Calibration)	16.6	16.7	0.60%	+/- 5%		0.60%	
Internal Leak Check	62			140 mmHg		Pass	

Standards Used	Description	S/N	Calibration Date
Flow	FTS Standard	70519	14-Dec-16
Temperature	Hygro/Therm/Baro/D	160371938	15-Apr-16
Pressure	Hygro/Therm/Baro/D	160371938	15-Apr-16
Relative Humidity	Hygro/Therm/Baro/D	160371938	15-Apr-16
Technical Data			

Firmware updated to file

Calibration Complete By

Signature: _____

Maintenance Work

Inspect and Clean "V" Seals and O-Rings
Exchange Particle Trap filter
Replace Batteries
Exchange Fuses
Cleaning Air Intake Filters
Rebuild Pumps
Clean TSP Sample Inlet and Tube

Frequency

Every 3 months
Every 6 months
Every 6-12 months
As needed
Every 6 months
Every 6 months
Every 3 months

Sensor Calibration Information

	Current	Actual	Offset
Amb Temp	-0.4	-2.3	3.97
Amb Pres	752	752	1.8
Amb RH	12.8	22.5	14.7
Filt Comp	21	20.8	0.6
Filter	20	20.1	0.55

2025 (TSP) Partisol Calibration Inspection

Instrument Serial Number 2025B221230801

Date 19-Dec-20

Time 14:30

Partisol Sampler Date 19-Dec-20

Partisol Sampler Time 13:15

Error Codes (Top Left Hand Corner) R

Mode (Top Right Hand Corner) WAIT

Next sampling date 23-Dec-20

Top Filter in Supply Magazine O16168

Top Filter in Receiving Magazine O16189

Filter in Sample Position O15124

Description	As found	Standard	As found variance	Allowable variance	Adjusted to	Final variance	Comments
Ambient Air Temperature	-33.4	-32.1	1.30	+/- 2°C		-32.10	
Ambient Pressure	756	755.9	0.10	+/- 10 mmHg		-755.90	
Filter Compartment Temp	19.1	18.7	-0.40	+/- 2°C		18.70	
External Leak Check	24			25 mmHg		Pass	
Ambient Relative Humidity	22.8		-100.00%	+/- 1.5%		#DIV/0!	
Initial Flow Verification (before Calibration)	17.7	16.7	-5.65%				
Flow Calibration, point 1	18.25	16.7	-8.49%	+/- 5%		-100.00%	Flow calibration completed
Flow Calibration, point 2	14.56	15	3.02%	+/- 5%		-100.00%	
Flow Calibration, point 3	17.89	18.4	2.85%	+/- 5%		-100.00%	
Final Flow Verification (after Calibration)	16.13	16.7	3.53%	+/- 5%		3.53%	
Internal Leak Check	62			140 mmHg		Pass	

Standards Used	Description	S/N	Calibration Date
Flow	FTS Standard	70519	14-Dec-16
Temperature	Hygro/Therm/Baro/D	160371938	15-Apr-16
Pressure	Hygro/Therm/Baro/D	160371938	15-Apr-16
Relative Humidity	Hygro/Therm/Baro/D	160371938	15-Apr-16
Technical Data			

Firmware updated to file

Calibration Complete By

Signature: _____

Maintenance Work

Inspect and Clean "V" Seals and O-Rings
Exchange Particle Trap filter
Replace Batteries
Exchange Fuses
Cleaning Air Intake Filters
Rebuild Pumps
Clean TSP Sample Inlet and Tube

Frequency

Every 3 months
Every 6 months
Every 6-12 months
As needed
Every 6 months
Every 6 months
Every 3 months

Sensor Calibration Information

Amb Temp
Amb Pres
Amb RH
Filt Comp
Filter

Current

Actual

Offset

2025 (TSP) Partisol Calibration Inspection

Instrument Serial Number 2025B221230801

Date 26-Sep-20

Time 14:15

Partisol Sampler Date 26-Sep-20

Partisol Sampler Time 12:15

Error Codes (Top Left Hand Corner) RX

Mode (Top Right Hand Corner) DONE

Next sampling date 30-Sep-20

Top Filter in Supply Magazine O14361 First of Sept-Dec sample set

Top Filter in Receiving Magazine OO9930

Filter in Sample Position 15172 Last of Jun-Sept sample set

Description	As found	Standard	As found variance	Allowable variance	Adjusted to	Final variance	Comments
Ambient Air Temperature	7.4	6.1	-1.30	+/- 2°C		6.10	
Ambient Pressure	756	755.2	0.80	+/- 10 mmHg		-755.20	
Filter Compartment Temp	25.6	24.7	-0.90	+/- 2°C		24.70	
External Leak Check	25			25 mmHg		Pass	33mgHg. V seal maintenance conducted.
Ambient Relative Humidity			#DIV/0!	+/- 1.5%		#DIV/0!	
Initial Flow Verification (before Calibration)	16.54	16.7	0.97%				
Flow Calibration, point 1			#DIV/0!	+/- 5%		#DIV/0!	
Flow Calibration, point 2			#DIV/0!	+/- 5%		#DIV/0!	
Flow Calibration, point 3			#DIV/0!	+/- 5%		#DIV/0!	
Final Flow Verification (after Calibration)			#DIV/0!	+/- 5%		#DIV/0!	
Internal Leak Check	71			140 mmHg		Pass	

Standards Used	Description	S/N	Calibration Date
Flow	FTS Standard	70519	14-Dec-16
Temperature	Hygro/Therm/Baro/D	160371938	15-Apr-16
Pressure	Hygro/Therm/Baro/D	160371938	15-Apr-16
Relative Humidity	Hygro/Therm/Baro/D	160371938	15-Apr-16
Technical Data			

Firmware updated to file

Calibration Complete By

Signature: _____

Maintenance Work

Inspect and Clean "V" Seals and O-Rings

Exchange Particle Trap filter

Replace Batteries

Exchange Fuses

Cleaning Air Intake Filters

Rebuild Pumps

Clean TSP Sample Inlet and Tube

Frequency

Every 3 months

Every 6 months

Every 6-12 months

As needed

Every 6 months

Every 6 months

Every 3 months

Sensor Calibration Information

Current

Actual

Offset

Amb Temp

Amb Pres

Amb RH

Filt Comp

Filter

2025 (TSP) Partisol Calibration Inspection
Instrument Serial Number 2025B221230801

Date 13-Mar-21
Time 9:35
Partisol Sampler Date 13-Mar-21
Partisol Sampler Time 8:10
Error Codes (Top Left Hand Corner) R
Mode (Top Right Hand Corner) WAIT
Next sampling date 17-Mar-21
Top Filter in Supply Magazine O34146
Top Filter in Receiving Magazine O16177
Filter in Sample Position O1562

Description	As found	Standard	As found variance	Allowable variance	Adjusted to	Final variance	Comments
Ambient Air Temperature	-25.7	-20.8	4.90	+/- 2°C		-20.80	Sensor calibration completed.
Ambient Pressure	777	778.5	-1.50	+/- 10 mmHg		-778.50	
Filter Compartment Temp	11	10.3	-0.70	+/- 2°C		10.30	
External Leak Check	24			25 mmHg		Pass	
Ambient Relative Humidity			#DIV/0!	+/- 1.5%		#DIV/0!	
Initial Flow Verification (before Calibration)	15.47	16.7	7.95%				
Flow Calibration, point 1	17.47	16.7	-4.41%	+/- 5%		-100.00%	
Flow Calibration, point 2	14.84	15	1.08%	+/- 5%		-100.00%	
Flow Calibration, point 3	18.28	18.4	0.66%	+/- 5%		-100.00%	
Final Flow Verification (after Calibration)	16.49	16.7	1.27%	+/- 5%		1.27%	
Internal Leak Check	65			140 mmHg		Pass	

Standards Used	Description	S/N	Calibration Date
Flow	FTS Standard	70519	14-Dec-16
Temperature	Hygro/Therm/Baro/D	160371938	15-Apr-16
Pressure	Hygro/Therm/Baro/D	160371938	15-Apr-16
Relative Humidity	Hygro/Therm/Baro/D	160371938	15-Apr-16
Technical Data			

Firmware updated to file
Calibration Complete By

Signature: _____

Maintenance Work	Frequency
Inspect and Clean "V" Seals and O-Rings	Every 3 months
Exchange Particle Trap filter	Every 6 months
Replace Batteries	Every 6-12 months
Exchange Fuses	As needed
Cleaning Air Intake Filters	Every 6 months
Rebuild Pumps	Every 6 months
Clean TSP Sample Inlet and Tube	Every 3 months

Sensor Calibration Information	Current	Actual	Offset
Amb Temp	-25.7	-20.8	8.8
Amb Pres			
Amb RH			
Filt Comp			
Filter			

APPENDIX D

Meteorological Data Summary

This page intentionally left blank

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/1/2020 0:00	9.4	40.1	3.3	85.1	0.0	0.0	M	99.6
9/1/2020 1:00	9.2	34.4	3.1	87.5	0.0	0.0	M	99.6
9/1/2020 2:00	9.1	33.4	3.0	91.6	0.0	0.0	M	99.5
9/1/2020 3:00	9.4	31.5	3.2	94.0	0.0	0.0	M	99.5
9/1/2020 4:00	10.8	32.0	3.5	94.2	0.0	0.0	M	99.4
9/1/2020 5:00	10.2	31.0	3.6	94.9	0.4	0.0	M	99.4
9/1/2020 6:00	9.8	29.6	3.7	95.8	5.8	0.0	M	99.4
9/1/2020 7:00	9.6	26.4	3.6	96.0	22.8	0.0	M	99.4
9/1/2020 8:00	8.9	25.4	3.7	95.8	40.2	0.0	M	99.4
9/1/2020 9:00	10.0	27.9	4.0	94.7	116.7	0.0	M	99.3
9/1/2020 10:00	10.0	27.7	4.1	93.8	105.6	0.0	M	99.3
9/1/2020 11:00	10.3	27.9	4.3	93.3	136.3	1.0	M	99.3
9/1/2020 12:00	9.7	25.8	4.4	93.4	141.0	1.0	M	99.3
9/1/2020 13:00	10.0	24.6	4.3	93.8	96.2	0.0	M	99.3
9/1/2020 14:00	9.8	25.4	4.4	93.3	104.9	0.0	M	99.3
9/1/2020 15:00	9.5	24.2	4.6	93.5	104.5	0.0	M	99.3
9/1/2020 16:00	9.9	19.3	4.9	92.6	138.8	1.0	M	99.3
9/1/2020 17:00	10.3	17.8	4.7	93.5	64.9	0.0	M	99.3
9/1/2020 18:00	10.3	13.1	4.5	94.9	57.4	0.0	M	99.3
9/1/2020 19:00	9.6	11.5	4.2	94.9	21.2	0.0	M	99.3
9/1/2020 20:00	10.0	7.9	4.0	94.1	6.1	0.0	M	99.3
9/1/2020 21:00	9.6	3.9	3.8	94.8	0.0	0.0	M	99.3
9/1/2020 22:00	9.7	5.1	3.7	94.9	0.0	0.0	M	99.3
9/1/2020 23:00	9.1	4.4	3.6	94.9	0.0	0.0	M	99.2
9/2/2020 0:00	9.7	359.8	3.5	95.0	0.0	0.0	M	99.2
9/2/2020 1:00	9.7	358.7	3.4	95.2	0.0	0.0	M	99.2
9/2/2020 2:00	9.8	358.9	3.4	95.6	0.0	0.0	M	99.2
9/2/2020 3:00	10.1	358.7	3.4	95.5	0.0	0.0	M	99.2
9/2/2020 4:00	10.0	355.6	3.4	95.3	0.0	0.0	M	99.2
9/2/2020 5:00	9.8	351.2	3.4	95.0	0.4	0.0	M	99.2
9/2/2020 6:00	9.1	350.5	3.5	94.2	6.5	0.0	M	99.3
9/2/2020 7:00	9.7	355.2	3.5	94.2	22.0	0.0	M	99.3
9/2/2020 8:00	9.7	357.7	3.5	93.9	32.4	0.0	M	99.3
9/2/2020 9:00	9.2	359.3	3.7	94.5	58.4	0.0	M	99.4
9/2/2020 10:00	6.9	357.7	4.0	94.7	59.5	0.0	M	99.4
9/2/2020 11:00	7.2	5.6	4.6	95.0	114.6	0.0	M	99.4
9/2/2020 12:00	5.9	3.3	5.3	95.0	105.8	0.0	M	99.5
9/2/2020 13:00	5.6	11.4	6.1	94.1	131.1	1.0	M	99.5
9/2/2020 14:00	5.9	13.3	6.4	93.3	98.7	0.0	M	99.6
9/2/2020 15:00	4.9	4.9	6.4	93.2	89.9	0.0	M	99.7
9/2/2020 16:00	4.2	346.3	6.5	92.0	60.5	0.0	M	99.8
9/2/2020 17:00	3.0	342.1	6.6	91.8	36.6	0.0	M	99.8
9/2/2020 18:00	4.3	355.2	6.6	91.9	37.3	0.0	M	99.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/2/2020 19:00	5.2	7.9	6.5	92.4	14.0	0.0	M	99.9
9/2/2020 20:00	4.2	9.6	6.4	92.1	1.6	0.0	M	100.0
9/2/2020 21:00	4.2	359.0	6.0	92.7	0.0	0.0	M	100.0
9/2/2020 22:00	3.4	350.6	5.8	93.2	0.0	0.0	M	100.1
9/2/2020 23:00	3.4	0.3	5.6	93.6	0.0	0.0	M	100.1
9/3/2020 0:00	3.3	18.0	5.5	94.0	0.0	0.0	M	100.1
9/3/2020 1:00	2.8	7.4	5.3	93.9	0.0	0.0	M	100.2
9/3/2020 2:00	2.9	11.7	5.1	93.9	0.0	0.0	M	100.2
9/3/2020 3:00	3.5	23.7	5.1	93.6	0.0	0.0	M	100.2
9/3/2020 4:00	3.5	20.8	5.0	93.0	0.0	0.0	M	100.3
9/3/2020 5:00	3.3	23.7	4.6	94.2	0.9	0.0	M	100.3
9/3/2020 6:00	2.9	11.5	4.4	94.3	18.0	0.0	M	100.3
9/3/2020 7:00	2.7	19.8	4.4	94.3	41.5	0.0	M	100.3
9/3/2020 8:00	3.9	21.7	4.5	92.8	45.9	0.0	M	100.4
9/3/2020 9:00	4.4	7.4	4.2	93.7	71.1	0.0	M	100.4
9/3/2020 10:00	4.1	6.7	4.4	92.3	98.5	0.0	M	100.4
9/3/2020 11:00	4.5	7.5	5.0	89.7	171.1	1.0	M	100.5
9/3/2020 12:00	5.2	15.1	5.3	87.6	195.3	1.0	M	100.5
9/3/2020 13:00	5.4	30.6	5.6	82.6	224.2	1.0	M	100.5
9/3/2020 14:00	4.7	14.7	5.7	84.4	206.6	1.0	M	100.6
9/3/2020 15:00	5.1	8.2	5.8	84.5	203.4	1.0	M	100.6
9/3/2020 16:00	5.4	8.8	5.5	83.7	147.3	1.0	M	100.6
9/3/2020 17:00	4.6	351.0	5.3	83.0	103.1	0.0	M	100.6
9/3/2020 18:00	5.1	355.3	4.8	86.1	43.5	0.0	M	100.6
9/3/2020 19:00	4.7	358.6	4.1	84.3	20.2	0.0	M	100.6
9/3/2020 20:00	4.9	9.8	3.3	84.9	2.0	0.0	M	100.6
9/3/2020 21:00	4.0	7.4	2.9	83.9	0.0	0.0	M	100.6
9/3/2020 22:00	4.4	3.3	2.5	83.8	0.0	0.0	M	100.7
9/3/2020 23:00	4.5	2.8	1.7	86.7	0.0	0.0	M	100.7
9/4/2020 0:00	3.6	344.1	1.5	85.8	0.0	0.0	M	100.8
9/4/2020 1:00	4.4	331.6	1.3	87.5	0.0	0.0	M	100.8
9/4/2020 2:00	4.3	330.6	1.2	90.1	0.0	0.0	M	100.8
9/4/2020 3:00	4.1	329.9	1.2	91.3	0.0	0.0	M	100.8
9/4/2020 4:00	4.4	330.5	1.4	92.9	0.0	0.0	M	100.8
9/4/2020 5:00	4.1	338.0	1.9	93.1	0.5	0.0	M	100.9
9/4/2020 6:00	4.9	10.0	1.7	91.4	10.0	0.0	M	100.9
9/4/2020 7:00	5.8	357.3	1.2	92.6	27.4	0.0	M	100.9
9/4/2020 8:00	6.4	350.3	0.8	92.3	59.1	0.0	M	100.9
9/4/2020 9:00	4.6	351.2	0.9	88.8	109.0	0.0	M	101.0
9/4/2020 10:00	4.0	334.2	1.0	88.2	107.4	0.0	M	101.0
9/4/2020 11:00	4.5	330.4	1.0	88.4	105.6	0.0	M	101.1
9/4/2020 12:00	4.3	341.3	1.2	86.3	158.1	1.0	M	101.1
9/4/2020 13:00	4.3	332.3	1.4	84.6	169.4	1.0	M	101.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/4/2020 14:00	4.6	339.0	1.6	82.3	184.7	1.0	M	101.2
9/4/2020 15:00	4.7	329.9	1.8	81.5	138.7	1.0	M	101.2
9/4/2020 16:00	5.3	324.5	1.5	81.6	117.1	0.0	M	101.3
9/4/2020 17:00	4.5	330.6	1.3	82.1	78.5	0.0	M	101.3
9/4/2020 18:00	4.4	326.4	1.3	81.8	50.3	0.0	M	101.3
9/4/2020 19:00	4.8	324.0	0.9	84.7	27.1	0.0	M	101.4
9/4/2020 20:00	4.5	310.4	0.7	85.6	5.5	0.0	M	101.4
9/4/2020 21:00	4.5	319.8	0.8	85.9	0.0	0.0	M	101.4
9/4/2020 22:00	4.6	315.9	0.8	84.0	0.0	0.0	M	101.4
9/4/2020 23:00	4.4	312.2	0.8	86.4	0.0	0.0	M	101.4
9/5/2020 0:00	4.7	322.7	0.8	89.5	0.0	0.0	M	101.5
9/5/2020 1:00	3.6	340.5	0.4	92.8	0.0	0.0	M	101.5
9/5/2020 2:00	4.2	347.0	0.0	96.5	0.0	0.0	M	101.5
9/5/2020 3:00	4.3	346.9	-0.1	95.6	0.0	0.0	M	101.6
9/5/2020 4:00	3.8	338.1	-0.4	92.1	0.0	0.0	M	101.6
9/5/2020 5:00	4.5	331.3	-0.4	94.7	1.0	0.0	M	101.6
9/5/2020 6:00	4.1	339.5	-0.5	92.4	13.6	0.0	M	101.6
9/5/2020 7:00	4.0	345.8	-0.7	96.6	45.4	0.0	M	101.6
9/5/2020 8:00	4.4	334.1	0.0	89.3	66.2	0.0	M	101.7
9/5/2020 9:00	4.6	350.9	0.1	88.5	152.0	1.0	M	101.7
9/5/2020 10:00	4.3	343.7	0.7	83.2	166.3	1.0	M	101.7
9/5/2020 11:00	4.4	334.5	0.9	81.6	182.9	1.0	M	101.8
9/5/2020 12:00	4.8	326.0	1.0	80.4	235.6	1.0	M	101.8
9/5/2020 13:00	5.1	321.3	1.1	77.7	260.4	1.0	M	101.8
9/5/2020 14:00	5.4	301.5	1.5	75.9	268.5	1.0	M	101.8
9/5/2020 15:00	5.5	295.2	1.5	75.9	204.1	1.0	M	101.8
9/5/2020 16:00	5.3	306.6	1.1	78.0	156.5	1.0	M	101.8
9/5/2020 17:00	5.4	304.0	0.7	78.4	120.3	1.0	M	101.8
9/5/2020 18:00	5.2	301.5	0.6	78.9	71.8	0.0	M	101.8
9/5/2020 19:00	4.7	308.5	0.4	81.5	17.9	0.0	M	101.8
9/5/2020 20:00	4.8	305.3	0.6	83.1	1.2	0.0	M	101.8
9/5/2020 21:00	4.5	308.0	0.5	86.8	0.0	0.0	M	101.8
9/5/2020 22:00	4.4	308.3	0.3	91.6	0.0	0.0	M	101.8
9/5/2020 23:00	5.0	321.9	0.2	91.6	0.0	0.0	M	101.8
9/6/2020 0:00	5.1	311.7	-0.1	89.4	0.0	0.0	M	101.8
9/6/2020 1:00	5.4	306.6	-0.7	95.2	0.0	0.0	M	101.8
9/6/2020 2:00	5.1	312.2	-0.7	91.7	0.0	0.0	M	101.8
9/6/2020 3:00	5.5	312.7	-0.9	90.0	0.0	0.0	M	101.8
9/6/2020 4:00	5.6	306.5	-1.1	90.4	0.0	0.0	M	101.9
9/6/2020 5:00	5.4	307.2	-0.9	86.9	0.8	0.0	M	101.9
9/6/2020 6:00	5.4	311.2	-0.8	88.6	9.0	0.0	M	101.9
9/6/2020 7:00	5.9	315.3	-0.4	88.5	39.4	0.0	M	101.9
9/6/2020 8:00	5.3	315.2	0.0	90.4	102.0	0.0	M	101.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/6/2020 9:00	5.2	315.4	0.4	89.5	139.3	1.0	M	101.9
9/6/2020 10:00	5.2	313.5	0.4	94.8	192.5	1.0	M	101.9
9/6/2020 11:00	5.7	299.4	1.3	91.0	268.1	1.0	M	101.9
9/6/2020 12:00	6.9	292.4	1.8	87.4	208.7	1.0	M	101.9
9/6/2020 13:00	7.3	293.5	2.1	84.9	151.0	1.0	M	102.0
9/6/2020 14:00	7.0	296.3	1.9	84.5	150.4	1.0	M	102.0
9/6/2020 15:00	6.4	294.4	1.7	83.9	159.6	1.0	M	102.0
9/6/2020 16:00	5.5	294.3	2.1	81.2	152.2	1.0	M	102.1
9/6/2020 17:00	5.9	304.4	1.9	81.4	99.8	0.0	M	102.1
9/6/2020 18:00	5.6	302.5	1.8	81.6	47.3	0.0	M	102.1
9/6/2020 19:00	5.6	304.2	1.5	83.2	12.2	0.0	M	102.1
9/6/2020 20:00	5.3	303.5	1.2	84.7	1.4	0.0	M	102.2
9/6/2020 21:00	4.4	298.4	1.0	86.6	0.0	0.0	M	102.2
9/6/2020 22:00	3.6	295.7	0.6	90.4	0.0	0.0	M	102.2
9/6/2020 23:00	3.1	295.0	0.7	91.3	0.0	0.0	M	102.2
9/7/2020 0:00	2.8	306.4	1.0	91.4	0.0	0.0	M	102.3
9/7/2020 1:00	3.3	309.6	0.9	90.9	0.0	0.0	M	102.3
9/7/2020 2:00	4.1	309.5	0.8	90.5	0.0	0.0	M	102.3
9/7/2020 3:00	3.9	299.0	0.5	93.3	0.0	0.0	M	102.4
9/7/2020 4:00	4.3	299.4	0.8	92.7	0.0	0.0	M	102.3
9/7/2020 5:00	4.2	292.8	1.2	86.2	1.0	0.0	M	102.4
9/7/2020 6:00	5.3	302.3	2.1	76.4	10.8	0.0	M	102.4
9/7/2020 7:00	4.8	299.5	1.9	76.9	37.0	0.0	M	102.4
9/7/2020 8:00	5.7	285.5	2.3	75.1	88.5	0.0	M	102.4
9/7/2020 9:00	6.5	281.7	2.6	76.1	161.8	1.0	M	102.4
9/7/2020 10:00	5.9	275.4	2.9	75.4	247.1	1.0	M	102.3
9/7/2020 11:00	5.8	275.0	3.2	74.5	234.1	1.0	M	102.2
9/7/2020 12:00	6.1	259.6	3.6	75.9	260.0	1.0	M	102.2
9/7/2020 13:00	6.2	256.9	3.6	80.7	233.4	1.0	M	102.1
9/7/2020 14:00	6.4	260.4	4.1	78.6	263.2	1.0	M	102.1
9/7/2020 15:00	5.4	260.6	4.2	79.3	207.6	1.0	M	102.0
9/7/2020 16:00	4.6	232.7	4.9	70.5	286.2	1.0	M	101.9
9/7/2020 17:00	5.0	208.9	5.7	62.3	188.3	1.0	M	101.7
9/7/2020 18:00	3.4	196.8	4.8	65.1	49.1	0.0	M	101.6
9/7/2020 19:00	3.7	166.0	4.0	72.7	16.9	0.0	M	101.5
9/7/2020 20:00	4.2	150.0	3.3	80.1	1.0	0.0	M	101.4
9/7/2020 21:00	5.6	145.7	3.3	80.2	0.0	0.0	M	101.2
9/7/2020 22:00	7.7	165.7	3.3	77.3	0.0	0.0	M	101.1
9/7/2020 23:00	8.1	167.7	3.1	79.6	0.0	0.0	M	100.9
9/8/2020 0:00	7.3	163.4	3.0	81.7	0.0	0.0	M	100.8
9/8/2020 1:00	6.6	156.8	3.2	82.9	0.0	0.0	M	100.7
9/8/2020 2:00	7.6	163.4	3.5	82.8	0.0	0.0	M	100.5
9/8/2020 3:00	7.2	163.2	3.7	83.3	0.0	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/8/2020 4:00	7.4	161.9	4.1	81.6	0.0	0.0	M	100.2
9/8/2020 5:00	7.2	158.5	3.9	83.1	0.7	0.0	M	100.1
9/8/2020 6:00	6.7	150.9	4.3	84.3	9.6	0.0	M	100.0
9/8/2020 7:00	7.3	136.7	4.6	82.7	41.0	0.0	M	99.9
9/8/2020 8:00	8.6	141.4	5.1	79.8	79.4	0.0	M	99.7
9/8/2020 9:00	9.7	142.0	5.8	78.1	129.5	1.0	M	99.7
9/8/2020 10:00	9.8	132.8	6.1	79.8	143.7	1.0	M	99.6
9/8/2020 11:00	9.9	126.0	5.7	84.0	119.5	0.0	M	99.6
9/8/2020 12:00	9.2	115.7	5.5	88.1	112.3	0.0	M	99.6
9/8/2020 13:00	8.7	108.2	5.7	90.3	162.7	1.0	M	99.5
9/8/2020 14:00	8.0	103.7	5.8	92.0	131.3	1.0	M	99.5
9/8/2020 15:00	7.2	98.8	5.9	92.6	95.2	0.0	M	99.6
9/8/2020 16:00	5.8	83.6	5.7	93.2	53.8	0.0	M	99.6
9/8/2020 17:00	5.4	65.7	5.4	94.7	30.3	0.0	M	99.6
9/8/2020 18:00	4.9	42.9	5.1	96.0	11.6	0.0	M	99.7
9/8/2020 19:00	4.5	25.0	4.9	95.6	7.3	0.0	M	99.7
9/8/2020 20:00	3.8	4.4	4.8	94.5	0.7	0.0	M	99.8
9/8/2020 21:00	5.0	345.6	4.5	94.7	0.0	0.0	M	99.8
9/8/2020 22:00	6.6	350.8	4.0	96.0	0.0	0.0	M	99.8
9/8/2020 23:00	6.9	357.3	3.7	96.4	0.0	0.0	M	99.8
9/9/2020 0:00	6.8	354.2	3.7	96.2	0.0	0.0	M	99.9
9/9/2020 1:00	6.2	346.8	3.7	95.6	0.0	0.0	M	100.0
9/9/2020 2:00	5.9	326.2	3.5	95.5	0.0	0.0	M	100.0
9/9/2020 3:00	5.2	325.1	3.4	95.9	0.0	0.0	M	100.0
9/9/2020 4:00	5.6	323.9	3.2	94.4	0.0	0.0	M	100.1
9/9/2020 5:00	7.2	318.2	2.8	95.0	0.5	0.0	M	100.2
9/9/2020 6:00	5.9	318.5	3.0	94.8	9.1	0.0	M	100.3
9/9/2020 7:00	5.5	318.4	3.2	94.8	36.9	0.0	M	100.3
9/9/2020 8:00	6.2	317.0	3.5	94.6	32.1	0.0	M	100.4
9/9/2020 9:00	6.1	320.9	3.7	95.6	57.3	0.0	M	100.4
9/9/2020 10:00	6.1	322.3	3.8	95.6	77.1	0.0	M	100.5
9/9/2020 11:00	7.4	327.9	3.3	95.2	109.6	0.0	M	100.5
9/9/2020 12:00	7.4	323.0	3.0	93.2	84.2	0.0	M	100.6
9/9/2020 13:00	8.7	321.1	2.9	88.2	118.0	0.0	M	100.7
9/9/2020 14:00	8.4	316.3	3.1	84.1	103.0	0.0	M	100.7
9/9/2020 15:00	8.3	316.7	3.1	81.0	122.5	1.0	M	100.8
9/9/2020 16:00	7.8	317.4	3.2	76.6	104.9	0.0	M	100.9
9/9/2020 17:00	7.1	318.4	3.3	74.3	69.0	0.0	M	100.9
9/9/2020 18:00	5.7	319.5	3.4	73.2	56.3	0.0	M	101.0
9/9/2020 19:00	4.4	309.6	2.7	82.4	23.8	0.0	M	101.0
9/9/2020 20:00	3.7	306.3	2.5	84.4	1.0	0.0	M	101.0
9/9/2020 21:00	3.0	308.2	1.7	87.0	0.0	0.0	M	101.0
9/9/2020 22:00	2.5	295.7	1.3	87.7	0.0	0.0	M	101.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/9/2020 23:00	2.0	293.7	1.5	88.5	0.0	0.0	M	101.1
9/10/2020 0:00	2.7	287.0	2.1	86.8	0.0	0.0	M	101.1
9/10/2020 1:00	3.0	274.3	2.4	87.5	0.0	0.0	M	101.0
9/10/2020 2:00	4.1	275.0	2.6	90.9	0.0	0.0	M	101.1
9/10/2020 3:00	5.7	286.6	2.8	88.9	0.0	0.0	M	101.1
9/10/2020 4:00	6.9	295.4	2.0	91.2	0.0	0.0	M	101.1
9/10/2020 5:00	5.6	307.1	1.6	91.0	0.3	0.0	M	101.1
9/10/2020 6:00	5.8	301.8	1.1	88.6	9.0	0.0	M	101.1
9/10/2020 7:00	3.6	309.1	1.6	83.1	90.4	0.0	M	101.2
9/10/2020 8:00	3.6	290.6	1.9	80.9	56.6	0.0	M	101.3
9/10/2020 9:00	4.8	278.7	2.6	82.2	91.7	0.0	M	101.4
9/10/2020 10:00	6.6	270.2	3.1	81.6	159.1	1.0	M	101.3
9/10/2020 11:00	6.9	270.0	3.8	77.7	333.1	1.0	M	101.2
9/10/2020 12:00	7.1	268.1	4.5	74.1	438.6	1.0	M	101.2
9/10/2020 13:00	8.4	256.9	4.6	74.6	451.3	1.0	M	101.2
9/10/2020 14:00	8.2	256.6	4.8	72.3	421.5	1.0	M	101.1
9/10/2020 15:00	7.3	259.9	5.1	70.0	367.5	1.0	M	101.2
9/10/2020 16:00	6.4	252.5	5.1	70.0	290.4	1.0	M	101.2
9/10/2020 17:00	5.4	255.1	5.0	71.7	207.7	1.0	M	101.1
9/10/2020 18:00	4.5	255.0	4.7	72.2	113.4	0.0	M	101.1
9/10/2020 19:00	3.2	243.2	3.2	75.9	11.4	0.0	M	101.1
9/10/2020 20:00	3.0	226.8	1.5	79.2	0.8	0.0	M	101.0
9/10/2020 21:00	2.3	230.3	1.2	80.0	0.0	0.0	M	101.1
9/10/2020 22:00	1.0	224.9	2.2	76.2	0.0	0.0	M	101.0
9/10/2020 23:00	0.3	58.9	0.6	86.6	0.0	0.0	M	101.0
9/11/2020 0:00	0.4	173.9	0.0	91.8	0.0	0.0	M	101.0
9/11/2020 1:00	0.3	161.8	-0.4	92.9	0.0	0.0	M	101.0
9/11/2020 2:00	0.8	139.5	-0.4	94.2	0.0	0.0	M	100.9
9/11/2020 3:00	0.4	138.7	-0.7	94.0	0.0	0.0	M	101.0
9/11/2020 4:00	0.3	157.7	-0.6	94.4	0.0	0.0	M	101.0
9/11/2020 5:00	0.2	180.4	-0.4	95.0	0.2	0.0	M	101.0
9/11/2020 6:00	0.4	137.6	0.1	95.1	6.8	0.0	M	100.9
9/11/2020 7:00	0.4	124.3	0.5	94.7	37.6	0.0	M	100.9
9/11/2020 8:00	0.7	123.2	1.1	93.2	70.5	0.0	M	100.9
9/11/2020 9:00	0.8	122.0	2.4	91.0	164.1	1.0	M	100.9
9/11/2020 10:00	1.4	182.4	4.5	85.0	212.0	1.0	M	100.9
9/11/2020 11:00	3.2	221.7	5.2	79.1	215.9	1.0	M	100.8
9/11/2020 12:00	2.9	257.9	5.8	71.5	274.9	1.0	M	100.8
9/11/2020 13:00	3.8	274.8	6.0	68.5	341.4	1.0	M	100.7
9/11/2020 14:00	4.4	289.8	5.1	77.6	228.4	1.0	M	100.8
9/11/2020 15:00	5.4	263.7	5.7	72.9	279.5	1.0	M	100.7
9/11/2020 16:00	7.0	282.4	5.0	75.0	168.0	1.0	M	100.7
9/11/2020 17:00	6.3	276.7	4.6	71.2	127.7	1.0	M	100.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/11/2020 18:00	6.3	275.0	4.3	69.8	103.7	0.0	M	100.7
9/11/2020 19:00	6.1	273.0	3.5	74.2	12.8	0.0	M	100.7
9/11/2020 20:00	7.1	269.1	3.1	81.7	0.5	0.0	M	100.7
9/11/2020 21:00	6.4	268.0	3.1	84.9	0.0	0.0	M	100.7
9/11/2020 22:00	6.1	265.7	3.4	80.1	0.0	0.0	M	100.6
9/11/2020 23:00	5.6	261.1	3.3	83.0	0.0	0.0	M	100.6
9/12/2020 0:00	4.8	243.0	3.0	85.7	0.0	0.0	M	100.6
9/12/2020 1:00	4.1	214.7	2.1	87.3	0.0	0.0	M	100.5
9/12/2020 2:00	4.3	205.5	1.6	87.5	0.0	0.0	M	100.5
9/12/2020 3:00	4.5	208.3	1.3	89.0	0.0	0.0	M	100.5
9/12/2020 4:00	5.4	205.0	1.6	88.1	0.0	0.0	M	100.5
9/12/2020 5:00	5.6	203.0	1.5	87.4	0.2	0.0	M	100.4
9/12/2020 6:00	5.7	196.4	1.5	88.7	14.0	0.0	M	100.5
9/12/2020 7:00	5.4	199.2	2.1	87.6	57.2	0.0	M	100.4
9/12/2020 8:00	5.3	195.5	3.4	83.3	118.0	0.0	M	100.4
9/12/2020 9:00	5.3	209.6	4.6	76.5	214.6	1.0	M	100.4
9/12/2020 10:00	5.3	217.1	5.8	69.4	268.5	1.0	M	100.3
9/12/2020 11:00	6.4	219.4	6.5	65.7	333.3	1.0	M	100.2
9/12/2020 12:00	6.0	219.7	7.2	61.5	331.1	1.0	M	100.2
9/12/2020 13:00	7.7	224.9	6.9	62.0	208.9	1.0	M	100.2
9/12/2020 14:00	7.5	222.9	5.7	77.7	95.6	0.0	M	100.2
9/12/2020 15:00	9.0	239.1	5.5	85.4	147.8	1.0	M	100.1
9/12/2020 16:00	10.4	253.3	5.1	84.2	149.0	1.0	M	100.1
9/12/2020 17:00	10.5	268.3	4.4	87.3	123.8	1.0	M	100.1
9/12/2020 18:00	8.1	291.9	3.7	87.0	44.4	0.0	M	100.2
9/12/2020 19:00	8.9	320.9	1.4	89.1	8.8	0.0	M	100.3
9/12/2020 20:00	8.7	324.0	0.0	86.1	0.2	0.0	M	100.5
9/12/2020 21:00	8.0	322.5	-0.5	79.4	0.0	0.0	M	100.6
9/12/2020 22:00	6.8	317.0	-0.9	74.7	0.0	0.0	M	100.6
9/12/2020 23:00	6.5	319.5	-1.9	70.7	0.0	0.0	M	100.7
9/13/2020 0:00	3.4	310.3	-2.4	73.1	0.0	0.0	M	100.8
9/13/2020 1:00	5.0	317.7	-1.8	70.3	0.0	0.0	M	100.8
9/13/2020 2:00	4.1	300.1	-2.2	85.8	0.0	0.0	M	101.0
9/13/2020 3:00	6.4	304.6	-1.4	75.8	0.0	0.0	M	101.0
9/13/2020 4:00	6.4	307.1	-1.6	73.8	0.0	0.0	M	100.9
9/13/2020 5:00	6.8	314.3	-1.7	70.1	0.1	0.0	M	100.9
9/13/2020 6:00	6.2	321.9	-1.8	72.1	4.1	0.0	M	100.9
9/13/2020 7:00	6.2	305.9	-1.9	64.8	15.5	0.0	M	100.9
9/13/2020 8:00	6.6	296.2	-1.6	65.8	48.0	0.0	M	101.0
9/13/2020 9:00	6.7	298.9	-1.3	71.1	85.0	0.0	M	101.1
9/13/2020 10:00	7.4	295.2	-1.0	65.7	75.7	0.0	M	101.2
9/13/2020 11:00	8.0	283.0	-0.9	70.2	101.8	0.0	M	101.4
9/13/2020 12:00	8.2	280.0	-0.4	68.5	159.5	1.0	M	101.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/13/2020 13:00	8.2	270.4	0.0	71.3	129.9	1.0	M	101.1
9/13/2020 14:00	7.0	261.5	0.4	74.6	173.1	1.0	M	101.0
9/13/2020 15:00	4.9	222.8	-0.3	93.1	120.3	1.0	M	101.0
9/13/2020 16:00	11.2	267.0	1.4	79.1	98.6	0.0	M	100.9
9/13/2020 17:00	7.5	267.0	0.9	86.1	55.5	0.0	M	101.0
9/13/2020 18:00	8.5	278.2	0.8	87.1	19.9	0.0	M	100.9
9/13/2020 19:00	10.6	267.7	0.9	85.3	4.0	0.0	M	100.9
9/13/2020 20:00	10.1	267.0	0.1	94.4	0.0	0.0	M	100.8
9/13/2020 21:00	9.2	265.8	0.3	86.5	0.0	0.0	M	100.7
9/13/2020 22:00	9.1	261.7	-0.1	92.1	0.0	0.0	M	100.7
9/13/2020 23:00	8.2	246.5	-0.4	97.8	0.0	0.0	M	100.5
9/14/2020 0:00	9.5	255.6	-0.4	98.3	0.0	0.0	M	100.5
9/14/2020 1:00	8.0	256.6	0.0	97.4	0.0	0.0	M	100.4
9/14/2020 2:00	7.1	245.1	0.0	98.5	0.0	0.0	M	100.3
9/14/2020 3:00	8.9	237.7	-0.1	99.2	0.0	0.0	M	100.1
9/14/2020 4:00	6.5	216.0	-0.2	98.6	0.0	0.0	M	100.1
9/14/2020 5:00	6.6	199.3	0.0	99.1	0.0	0.0	M	99.9
9/14/2020 6:00	7.0	190.1	0.3	99.4	3.2	0.0	M	99.7
9/14/2020 7:00	7.8	215.1	0.6	99.4	16.1	0.0	M	99.7
9/14/2020 8:00	9.2	252.3	1.0	97.9	47.8	0.0	M	99.6
9/14/2020 9:00	6.9	289.6	1.0	95.8	128.5	1.0	M	99.7
9/14/2020 10:00	5.3	316.3	1.0	92.1	247.9	1.0	M	99.7
9/14/2020 11:00	7.1	347.7	0.4	85.5	334.5	1.0	M	99.5
9/14/2020 12:00	8.8	349.0	-0.7	84.8	197.5	1.0	M	99.1
9/14/2020 13:00	9.7	350.4	-1.6	84.1	220.6	1.0	M	98.9
9/14/2020 14:00	9.4	338.3	-2.2	80.8	146.7	1.0	M	98.8
9/14/2020 15:00	10.4	321.5	-2.7	76.8	131.3	1.0	M	98.7
9/14/2020 16:00	9.5	319.6	-2.8	70.7	143.2	1.0	M	98.6
9/14/2020 17:00	8.9	321.5	-3.2	74.2	78.0	0.0	M	98.4
9/14/2020 18:00	8.1	315.4	-3.5	73.3	43.2	0.0	M	98.2
9/14/2020 19:00	6.7	314.0	-4.1	75.7	9.7	0.0	M	98.1
9/14/2020 20:00	6.8	307.5	-3.8	76.7	0.1	0.0	M	98.2
9/14/2020 21:00	7.3	316.7	-3.9	75.1	0.0	0.0	M	98.0
9/14/2020 22:00	7.5	317.7	-4.2	75.6	0.0	0.0	M	98.1
9/14/2020 23:00	8.3	316.0	-4.1	77.6	0.0	0.0	M	98.1
9/15/2020 0:00	7.8	313.0	-4.1	78.3	0.0	0.0	M	98.1
9/15/2020 1:00	9.1	317.4	-4.0	80.0	0.0	0.0	M	98.2
9/15/2020 2:00	10.0	319.6	-3.9	83.4	0.0	0.0	M	98.2
9/15/2020 3:00	11.3	320.0	-3.9	87.5	0.0	0.0	M	98.2
9/15/2020 4:00	11.4	320.0	-4.0	83.0	0.0	0.0	M	98.2
9/15/2020 5:00	11.5	320.4	-3.9	78.5	0.0	0.0	M	98.2
9/15/2020 6:00	12.2	319.7	-3.8	76.1	4.0	0.0	M	98.3
9/15/2020 7:00	11.4	316.1	-3.5	80.4	36.4	0.0	M	98.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/15/2020 8:00	10.6	311.3	-3.0	84.7	67.2	0.0	M	98.6
9/15/2020 9:00	10.6	313.0	-2.7	88.3	82.7	0.0	M	98.7
9/15/2020 10:00	10.9	318.5	-2.2	86.5	98.0	0.0	M	98.9
9/15/2020 11:00	12.0	319.8	-1.8	89.8	178.2	1.0	M	99.1
9/15/2020 12:00	13.0	320.8	-1.5	86.0	147.3	1.0	M	99.2
9/15/2020 13:00	11.6	319.7	-1.4	85.3	156.4	1.0	M	99.2
9/15/2020 14:00	10.6	317.6	-1.4	84.5	122.2	1.0	M	99.1
9/15/2020 15:00	9.1	314.7	-1.9	86.6	133.8	1.0	M	99.0
9/15/2020 16:00	7.9	308.6	-2.2	85.9	113.3	0.0	M	98.8
9/15/2020 17:00	7.5	307.8	-2.4	90.0	51.4	0.0	M	98.7
9/15/2020 18:00	7.8	313.7	-2.2	86.3	26.0	0.0	M	98.9
9/15/2020 19:00	9.1	317.0	-1.7	81.2	3.4	0.0	M	99.0
9/15/2020 20:00	7.1	309.4	-1.5	84.2	0.0	0.0	M	99.0
9/15/2020 21:00	6.3	307.4	-1.7	89.3	0.0	0.0	M	99.0
9/15/2020 22:00	6.0	306.8	-1.7	91.1	0.0	0.0	M	98.9
9/15/2020 23:00	6.7	305.9	-1.8	90.8	0.0	0.0	M	98.9
9/16/2020 0:00	6.1	308.2	-1.7	88.1	0.0	0.0	M	99.0
9/16/2020 1:00	6.9	304.3	-1.5	85.8	0.0	0.0	M	99.0
9/16/2020 2:00	6.2	302.9	-1.6	86.2	0.0	0.0	M	99.1
9/16/2020 3:00	5.0	301.9	-1.5	84.9	0.0	0.0	M	99.1
9/16/2020 4:00	5.3	302.5	-1.4	85.8	0.0	0.0	M	99.1
9/16/2020 5:00	4.8	301.3	-1.4	87.3	0.0	0.0	M	99.1
9/16/2020 6:00	4.5	305.0	-1.3	86.4	4.1	0.0	M	99.2
9/16/2020 7:00	4.0	305.1	-1.1	85.3	32.3	0.0	M	99.3
9/16/2020 8:00	4.3	305.0	-0.9	82.4	100.8	0.0	M	99.4
9/16/2020 9:00	5.6	298.1	-0.6	77.2	150.2	1.0	M	99.6
9/16/2020 10:00	6.6	285.8	0.0	78.1	242.0	1.0	M	100.8
9/16/2020 11:00	7.5	274.3	0.3	83.5	215.5	1.0	M	100.8
9/16/2020 12:00	9.3	273.1	0.8	88.0	263.6	1.0	M	100.8
9/16/2020 13:00	10.2	274.3	0.9	86.5	260.1	1.0	M	100.7
9/16/2020 14:00	10.4	270.1	0.6	91.1	156.8	1.0	M	100.7
9/16/2020 15:00	12.2	267.6	0.8	90.5	114.8	0.0	M	100.8
9/16/2020 16:00	12.5	268.1	0.9	94.6	74.2	0.0	M	100.7
9/16/2020 17:00	12.5	268.1	1.2	95.6	30.4	0.0	M	100.7
9/16/2020 18:00	13.0	271.6	1.3	95.1	16.1	0.0	M	100.6
9/16/2020 19:00	11.6	281.1	1.2	95.7	1.9	0.0	M	100.6
9/16/2020 20:00	8.5	305.2	0.4	96.8	0.0	0.0	M	100.5
9/16/2020 21:00	7.5	304.0	0.1	96.1	0.0	0.0	M	100.6
9/16/2020 22:00	7.0	302.8	0.1	92.5	0.0	0.0	M	100.6
9/16/2020 23:00	8.0	300.5	0.3	88.5	0.0	0.0	M	100.6
9/17/2020 0:00	6.9	298.9	0.4	88.8	0.0	0.0	M	100.6
9/17/2020 1:00	7.7	297.7	0.5	89.5	0.0	0.0	M	100.6
9/17/2020 2:00	7.6	303.3	0.7	89.6	0.0	0.0	M	100.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/17/2020 3:00	7.1	299.2	0.8	90.0	0.0	0.0	M	100.9
9/17/2020 4:00	7.7	295.4	0.9	90.7	0.0	0.0	M	101.0
9/17/2020 5:00	7.5	289.0	1.2	91.0	0.0	0.0	M	101.0
9/17/2020 6:00	6.7	286.7	1.3	92.0	2.1	0.0	M	101.1
9/17/2020 7:00	6.4	283.9	1.4	92.3	20.7	0.0	M	101.1
9/17/2020 8:00	6.2	285.4	1.5	92.1	42.2	0.0	M	101.1
9/17/2020 9:00	6.2	281.2	1.5	93.0	85.1	0.0	M	101.1
9/17/2020 10:00	6.5	278.1	1.7	92.8	137.4	1.0	M	101.2
9/17/2020 11:00	7.0	270.8	2.1	91.1	197.2	1.0	M	101.2
9/17/2020 12:00	7.8	259.4	2.1	93.0	124.9	1.0	M	101.0
9/17/2020 13:00	7.7	256.0	1.4	96.8	107.5	0.0	M	101.1
9/17/2020 14:00	7.5	251.4	2.3	89.0	273.3	1.0	M	101.2
9/17/2020 15:00	7.4	243.9	3.6	79.5	306.4	1.0	M	101.1
9/17/2020 16:00	6.4	248.7	3.8	77.7	226.2	1.0	M	101.0
9/17/2020 17:00	5.7	233.2	3.6	75.9	148.2	1.0	M	101.0
9/17/2020 18:00	3.0	209.5	3.1	77.9	73.3	0.0	M	100.9
9/17/2020 19:00	3.5	183.4	1.9	84.3	7.0	0.0	M	100.9
9/17/2020 20:00	3.9	182.5	1.1	88.7	0.0	0.0	M	100.8
9/17/2020 21:00	3.2	204.0	0.3	91.5	0.0	0.0	M	100.7
9/17/2020 22:00	0.8	349.9	0.1	91.2	0.0	0.0	M	100.7
9/17/2020 23:00	1.0	138.8	-0.2	93.1	0.0	0.0	M	100.6
9/18/2020 0:00	0.6	133.7	-1.4	95.0	0.0	0.0	M	100.5
9/18/2020 1:00	0.4	126.7	-1.4	95.2	0.0	0.0	M	100.6
9/18/2020 2:00	0.9	130.8	-1.1	93.7	0.0	0.0	M	100.4
9/18/2020 3:00	0.4	98.0	-1.6	95.6	0.0	0.0	M	100.4
9/18/2020 4:00	0.5	140.4	-2.1	96.4	0.0	0.0	M	100.4
9/18/2020 5:00	0.6	126.3	-2.4	96.8	0.0	0.0	M	100.4
9/18/2020 6:00	0.3	140.4	-2.9	97.3	7.4	0.0	M	100.3
9/18/2020 7:00	0.5	77.1	-1.3	93.0	58.4	0.0	M	100.3
9/18/2020 8:00	0.8	105.7	0.1	86.9	136.7	1.0	M	100.3
9/18/2020 9:00	0.9	98.9	0.5	87.0	236.1	1.0	M	100.3
9/18/2020 10:00	0.7	91.6	1.9	83.1	333.3	1.0	M	100.3
9/18/2020 11:00	0.6	98.9	3.9	77.4	373.1	1.0	M	100.3
9/18/2020 12:00	1.0	108.0	4.1	76.4	393.9	1.0	M	100.2
9/18/2020 13:00	1.2	140.0	5.5	70.4	385.9	1.0	M	100.2
9/18/2020 14:00	1.0	262.3	6.6	59.7	366.5	1.0	M	100.1
9/18/2020 15:00	1.2	86.7	6.2	63.4	312.3	1.0	M	100.1
9/18/2020 16:00	2.6	90.6	5.3	71.1	235.7	1.0	M	100.1
9/18/2020 17:00	3.0	91.0	4.8	73.1	136.8	1.0	M	100.1
9/18/2020 18:00	3.4	85.9	3.6	78.2	64.3	0.0	M	100.1
9/18/2020 19:00	2.3	94.6	2.1	85.1	5.7	0.0	M	100.1
9/18/2020 20:00	3.2	65.7	-0.1	95.1	0.0	0.0	M	100.1
9/18/2020 21:00	4.2	74.3	-1.5	98.7	0.0	0.0	M	100.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/18/2020 22:00	3.2	82.1	-2.0	99.0	0.0	0.0	M	100.0
9/18/2020 23:00	3.4	86.7	-2.3	98.3	0.0	0.0	M	100.0
9/19/2020 0:00	4.2	82.1	-2.5	98.4	0.0	0.0	M	100.0
9/19/2020 1:00	4.4	74.4	-2.7	99.0	0.0	0.0	M	100.0
9/19/2020 2:00	4.6	81.9	-2.5	99.1	0.0	0.0	M	100.0
9/19/2020 3:00	4.9	85.0	-2.3	99.2	0.0	0.0	M	99.9
9/19/2020 4:00	5.6	83.6	-2.3	99.2	0.0	0.0	M	99.9
9/19/2020 5:00	7.0	88.0	-1.8	99.4	0.0	0.0	M	99.8
9/19/2020 6:00	8.4	82.3	-1.5	99.6	4.0	0.0	M	99.8
9/19/2020 7:00	8.0	86.1	-1.1	99.7	17.9	0.0	M	99.7
9/19/2020 8:00	7.6	89.4	-0.8	99.8	43.6	0.0	M	99.7
9/19/2020 9:00	7.5	89.3	-0.6	99.8	84.6	0.0	M	99.7
9/19/2020 10:00	8.2	83.9	-0.2	99.4	83.4	0.0	M	99.7
9/19/2020 11:00	8.4	80.7	0.4	97.5	86.5	0.0	M	99.6
9/19/2020 12:00	7.7	84.2	0.6	95.9	77.3	0.0	M	99.6
9/19/2020 13:00	7.0	90.0	0.7	95.1	90.3	0.0	M	99.5
9/19/2020 14:00	8.5	82.4	0.8	95.0	87.2	0.0	M	99.4
9/19/2020 15:00	8.3	81.3	0.9	95.3	59.9	0.0	M	99.4
9/19/2020 16:00	9.0	78.0	1.0	96.0	40.2	0.0	M	99.4
9/19/2020 17:00	8.6	87.4	1.0	96.3	19.0	0.0	M	99.4
9/19/2020 18:00	8.0	91.3	1.1	96.7	4.5	0.0	M	99.3
9/19/2020 19:00	8.5	86.7	1.1	97.0	1.2	0.0	M	99.3
9/19/2020 20:00	7.6	88.9	1.2	96.9	0.0	0.0	M	99.4
9/19/2020 21:00	5.8	106.4	1.4	96.8	0.0	0.0	M	99.4
9/19/2020 22:00	3.4	116.7	1.4	96.8	0.0	0.0	M	99.4
9/19/2020 23:00	3.2	108.5	1.3	97.1	0.0	0.0	M	99.4
9/20/2020 0:00	2.5	112.7	1.2	97.7	0.0	0.0	M	99.4
9/20/2020 1:00	2.3	147.2	1.2	98.2	0.0	0.0	M	99.4
9/20/2020 2:00	1.9	149.6	1.1	98.5	0.0	0.0	M	99.4
9/20/2020 3:00	1.7	156.3	1.2	98.7	0.0	0.0	M	99.4
9/20/2020 4:00	1.2	190.4	1.3	98.8	0.0	0.0	M	99.4
9/20/2020 5:00	4.3	258.7	2.4	98.9	0.0	0.0	M	99.5
9/20/2020 6:00	6.9	277.8	2.5	99.1	0.9	0.0	M	99.6
9/20/2020 7:00	6.2	290.4	2.3	99.2	12.1	0.0	M	99.6
9/20/2020 8:00	6.1	277.0	2.0	99.4	18.8	0.0	M	99.7
9/20/2020 9:00	6.7	262.6	1.3	99.6	49.7	0.0	M	99.7
9/20/2020 10:00	6.8	265.4	0.7	99.8	122.1	1.0	M	99.8
9/20/2020 11:00	7.2	269.0	0.8	99.9	204.4	1.0	M	99.8
9/20/2020 12:00	6.7	268.6	1.1	99.7	192.5	1.0	M	99.9
9/20/2020 13:00	5.5	282.8	1.5	99.6	104.0	0.0	M	100.0
9/20/2020 14:00	5.2	280.7	2.3	98.9	120.9	1.0	M	100.0
9/20/2020 15:00	5.1	277.6	2.9	92.5	116.7	0.0	M	100.0
9/20/2020 16:00	3.9	270.9	3.1	91.3	70.3	0.0	M	100.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/20/2020 17:00	4.8	259.8	3.5	92.4	53.3	0.0	M	100.0
9/20/2020 18:00	5.0	273.9	3.4	93.1	19.9	0.0	M	100.0
9/20/2020 19:00	4.6	265.2	3.1	93.9	0.9	0.0	M	100.0
9/20/2020 20:00	3.9	247.0	2.6	96.3	0.0	0.0	M	100.0
9/20/2020 21:00	3.0	217.3	2.0	98.0	0.0	0.0	M	100.1
9/20/2020 22:00	2.4	238.4	1.8	98.8	0.0	0.0	M	100.1
9/20/2020 23:00	1.1	230.2	1.5	99.0	0.0	0.0	M	100.1
9/21/2020 0:00	1.7	182.9	1.4	99.2	0.0	0.0	M	100.1
9/21/2020 1:00	2.4	161.7	0.9	99.5	0.0	0.0	M	100.1
9/21/2020 2:00	2.2	148.4	0.8	99.7	0.0	0.0	M	100.1
9/21/2020 3:00	2.2	139.2	0.3	99.9	0.0	0.0	M	100.1
9/21/2020 4:00	1.6	140.7	0.2	100.0	0.0	0.0	M	100.0
9/21/2020 5:00	0.8	131.9	0.3	100.0	0.0	0.0	M	100.1
9/21/2020 6:00	0.7	123.4	0.5	100.0	1.9	0.0	M	100.1
9/21/2020 7:00	0.7	117.1	0.5	100.0	18.6	0.0	M	100.2
9/21/2020 8:00	0.4	155.4	0.8	99.8	60.3	0.0	M	100.2
9/21/2020 9:00	1.4	120.1	1.8	99.6	81.6	0.0	M	100.2
9/21/2020 10:00	1.0	114.7	3.1	99.1	129.2	1.0	M	100.2
9/21/2020 11:00	3.0	134.3	5.9	92.9	309.1	1.0	M	100.1
9/21/2020 12:00	5.1	140.2	7.3	81.7	357.3	1.0	M	100.1
9/21/2020 13:00	5.1	141.8	7.7	79.2	360.6	1.0	M	100.1
9/21/2020 14:00	3.6	146.3	7.9	79.1	256.5	1.0	M	100.1
9/21/2020 15:00	4.0	153.1	7.7	79.2	200.0	1.0	M	100.1
9/21/2020 16:00	3.7	149.3	6.9	82.7	79.9	0.0	M	100.2
9/21/2020 17:00	2.8	179.7	6.6	84.7	46.4	0.0	M	100.2
9/21/2020 18:00	3.6	277.8	5.5	89.9	26.0	0.0	M	100.2
9/21/2020 19:00	4.4	280.0	4.4	92.0	1.3	0.0	M	100.3
9/21/2020 20:00	4.2	287.3	3.2	97.2	0.0	0.0	M	100.3
9/21/2020 21:00	4.2	279.1	2.8	98.5	0.0	0.0	M	100.3
9/21/2020 22:00	3.0	295.7	2.3	98.7	0.0	0.0	M	100.3
9/21/2020 23:00	2.5	283.4	2.2	98.7	0.0	0.0	M	100.4
9/22/2020 0:00	1.8	287.7	1.5	98.9	0.0	0.0	M	100.4
9/22/2020 1:00	2.4	266.8	1.4	99.0	0.0	0.0	M	100.4
9/22/2020 2:00	0.8	327.7	1.3	99.0	0.0	0.0	M	100.4
9/22/2020 3:00	1.2	259.4	1.0	99.1	0.0	0.0	M	100.4
9/22/2020 4:00	2.6	150.1	0.6	99.4	0.0	0.0	M	100.4
9/22/2020 5:00	2.2	192.3	-0.1	99.8	0.0	0.0	M	100.5
9/22/2020 6:00	2.9	104.3	0.3	99.9	1.8	0.0	M	100.5
9/22/2020 7:00	4.1	119.1	0.5	99.9	11.6	0.0	M	100.5
9/22/2020 8:00	4.4	116.0	0.6	99.8	33.3	0.0	M	100.4
9/22/2020 9:00	4.1	132.9	1.1	99.0	57.8	0.0	M	100.5
9/22/2020 10:00	2.8	148.0	1.7	96.8	125.6	1.0	M	100.5
9/22/2020 11:00	1.4	131.3	3.2	93.5	284.9	1.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/22/2020 12:00	2.1	137.0	4.0	90.5	284.6	1.0	M	100.4
9/22/2020 13:00	1.3	109.4	3.5	93.3	205.1	1.0	M	100.4
9/22/2020 14:00	1.6	123.5	4.6	91.5	246.8	1.0	M	100.4
9/22/2020 15:00	1.7	140.3	5.3	87.3	153.6	1.0	M	100.3
9/22/2020 16:00	1.4	136.3	5.3	88.7	69.6	0.0	M	100.4
9/22/2020 17:00	1.7	111.9	5.5	88.8	70.9	0.0	M	100.4
9/22/2020 18:00	1.5	92.8	5.4	89.9	11.9	0.0	M	100.4
9/22/2020 19:00	1.6	89.6	4.8	92.4	1.1	0.0	M	100.3
9/22/2020 20:00	2.0	43.8	4.5	93.5	0.0	0.0	M	100.3
9/22/2020 21:00	1.3	65.0	4.3	93.6	0.0	0.0	M	100.3
9/22/2020 22:00	1.1	51.2	3.6	94.8	0.0	0.0	M	100.3
9/22/2020 23:00	1.3	73.3	3.6	94.6	0.0	0.0	M	100.2
9/23/2020 0:00	0.6	127.7	3.3	94.5	0.0	0.0	M	100.3
9/23/2020 1:00	0.6	87.6	3.1	94.6	0.0	0.0	M	100.2
9/23/2020 2:00	1.3	94.6	2.9	94.8	0.0	0.0	M	100.2
9/23/2020 3:00	0.7	121.6	3.0	94.9	0.0	0.0	M	100.2
9/23/2020 4:00	0.6	57.4	2.8	95.0	0.0	0.0	M	100.2
9/23/2020 5:00	0.6	67.4	2.9	95.4	0.0	0.0	M	100.3
9/23/2020 6:00	0.3	42.3	2.9	95.5	0.5	0.0	M	100.3
9/23/2020 7:00	0.8	44.4	2.9	96.1	11.7	0.0	M	100.3
9/23/2020 8:00	1.1	33.6	3.3	96.2	41.3	0.0	M	100.3
9/23/2020 9:00	1.6	42.6	4.1	94.8	67.8	0.0	M	100.3
9/23/2020 10:00	0.9	84.8	4.8	92.4	141.0	1.0	M	100.3
9/23/2020 11:00	2.0	35.4	5.8	89.3	223.0	1.0	M	100.3
9/23/2020 12:00	0.8	90.5	6.8	85.3	237.4	1.0	M	100.4
9/23/2020 13:00	1.1	220.2	7.9	81.4	221.2	1.0	M	100.4
9/23/2020 14:00	1.9	300.3	7.2	83.8	172.3	1.0	M	100.4
9/23/2020 15:00	2.4	342.5	6.8	85.0	162.2	1.0	M	100.4
9/23/2020 16:00	2.9	342.0	5.9	89.1	80.2	0.0	M	100.5
9/23/2020 17:00	3.1	15.8	5.1	91.7	37.8	0.0	M	100.5
9/23/2020 18:00	2.7	17.3	4.3	95.4	7.4	0.0	M	100.5
9/23/2020 19:00	2.4	15.8	4.3	96.5	0.5	0.0	M	100.5
9/23/2020 20:00	2.0	77.4	4.0	97.1	0.0	0.0	M	100.5
9/23/2020 21:00	2.4	94.6	3.3	97.5	0.0	0.0	M	100.5
9/23/2020 22:00	2.8	113.1	2.6	98.1	0.0	0.0	M	100.5
9/23/2020 23:00	4.1	114.4	2.3	98.6	0.0	0.0	M	100.5
9/24/2020 0:00	3.4	100.1	1.9	99.1	0.0	0.0	M	100.4
9/24/2020 1:00	3.6	112.4	1.7	99.4	0.0	0.0	M	100.4
9/24/2020 2:00	2.9	88.6	1.6	99.6	0.0	0.0	M	100.4
9/24/2020 3:00	2.7	102.8	1.8	99.7	0.0	0.0	M	100.5
9/24/2020 4:00	2.7	119.8	2.2	99.6	0.0	0.0	M	100.5
9/24/2020 5:00	3.7	116.0	2.2	99.7	0.0	0.0	M	100.4
9/24/2020 6:00	3.5	107.8	1.9	99.7	0.5	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/24/2020 7:00	3.5	117.5	1.9	99.7	7.7	0.0	M	100.4
9/24/2020 8:00	3.6	120.2	2.4	99.6	29.9	0.0	M	100.3
9/24/2020 9:00	4.0	127.1	3.1	99.1	101.3	0.0	M	100.3
9/24/2020 10:00	5.6	125.9	2.6	98.9	135.2	1.0	M	100.3
9/24/2020 11:00	5.3	119.1	3.0	98.7	143.4	1.0	M	100.2
9/24/2020 12:00	5.6	111.3	3.1	98.2	151.7	1.0	M	100.2
9/24/2020 13:00	6.5	108.3	3.3	97.4	160.7	1.0	M	100.2
9/24/2020 14:00	5.8	103.4	3.3	96.6	163.2	1.0	M	100.2
9/24/2020 15:00	6.7	108.0	3.3	95.8	105.3	0.0	M	100.1
9/24/2020 16:00	7.7	104.4	2.7	96.9	74.6	0.0	M	100.1
9/24/2020 17:00	7.1	91.8	2.1	98.2	30.9	0.0	M	100.1
9/24/2020 18:00	7.3	104.6	2.0	98.9	8.3	0.0	M	100.1
9/24/2020 19:00	7.7	102.3	2.0	99.1	0.3	0.0	M	100.1
9/24/2020 20:00	8.5	100.6	1.7	99.3	0.0	0.0	M	100.0
9/24/2020 21:00	7.9	105.5	2.0	99.4	0.0	0.0	M	100.0
9/24/2020 22:00	8.4	104.9	2.4	99.3	0.0	0.0	M	100.0
9/24/2020 23:00	8.7	104.8	1.8	99.1	0.0	0.0	M	99.9
9/25/2020 0:00	8.2	108.4	1.4	98.2	0.0	0.0	M	99.9
9/25/2020 1:00	6.9	105.2	1.4	98.1	0.0	0.0	M	99.9
9/25/2020 2:00	6.7	102.0	1.8	98.6	0.0	0.0	M	99.9
9/25/2020 3:00	5.8	97.8	2.0	98.8	0.0	0.0	M	99.8
9/25/2020 4:00	5.3	86.7	1.9	98.3	0.0	0.0	M	99.8
9/25/2020 5:00	5.0	88.6	2.1	97.8	0.0	0.0	M	99.8
9/25/2020 6:00	5.7	90.6	2.3	98.4	0.3	0.0	M	99.8
9/25/2020 7:00	6.8	86.7	2.5	98.9	5.9	0.0	M	99.8
9/25/2020 8:00	7.6	96.7	2.9	99.0	16.7	0.0	M	99.8
9/25/2020 9:00	6.2	91.9	3.0	98.8	16.9	0.0	M	99.8
9/25/2020 10:00	6.3	84.6	3.2	97.6	41.2	0.0	M	99.7
9/25/2020 11:00	7.0	86.0	3.3	96.6	36.6	0.0	M	99.7
9/25/2020 12:00	7.4	98.5	3.5	96.4	35.1	0.0	M	99.8
9/25/2020 13:00	7.1	96.9	3.5	96.2	53.8	0.0	M	99.8
9/25/2020 14:00	6.8	93.3	3.6	96.4	49.1	0.0	M	99.8
9/25/2020 15:00	6.6	84.0	3.8	96.6	50.9	0.0	M	99.8
9/25/2020 16:00	6.8	88.1	4.0	97.2	30.5	0.0	M	99.8
9/25/2020 17:00	6.9	95.8	4.1	97.7	13.8	0.0	M	99.9
9/25/2020 18:00	5.9	90.5	3.9	98.1	3.9	0.0	M	99.9
9/25/2020 19:00	5.8	90.0	3.5	98.6	0.2	0.0	M	99.9
9/25/2020 20:00	5.8	81.2	3.4	98.9	0.0	0.0	M	99.9
9/25/2020 21:00	5.4	86.2	3.5	99.0	0.0	0.0	M	99.9
9/25/2020 22:00	5.5	72.9	3.5	99.2	0.0	0.0	M	100.0
9/25/2020 23:00	5.5	74.4	3.7	99.2	0.0	0.0	M	100.0
9/26/2020 0:00	5.8	81.6	3.6	99.3	0.0	0.0	M	100.0
9/26/2020 1:00	5.3	82.2	3.5	99.3	0.0	0.0	M	100.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/26/2020 2:00	5.1	80.6	3.3	99.4	0.0	0.0	M	100.1
9/26/2020 3:00	3.8	76.1	3.1	99.4	0.0	0.0	M	100.2
9/26/2020 4:00	3.6	73.4	3.1	99.3	0.0	0.0	M	100.2
9/26/2020 5:00	4.2	66.9	3.1	99.0	0.0	0.0	M	100.3
9/26/2020 6:00	4.5	93.4	3.2	97.1	0.2	0.0	M	100.2
9/26/2020 7:00	5.4	110.7	3.1	92.5	5.0	0.0	M	100.3
9/26/2020 8:00	5.1	107.9	3.0	92.4	17.3	0.0	M	100.3
9/26/2020 9:00	5.2	97.5	2.8	92.3	29.8	0.0	M	100.3
9/26/2020 10:00	5.6	91.1	2.5	92.9	45.4	0.0	M	100.4
9/26/2020 11:00	5.3	109.3	2.6	94.1	77.4	0.0	M	100.4
9/26/2020 12:00	4.7	122.6	2.6	92.5	96.7	0.0	M	100.5
9/26/2020 13:00	4.2	120.8	2.8	91.2	102.1	0.0	M	100.5
9/26/2020 14:00	4.1	113.4	3.0	89.3	91.7	0.0	M	100.6
9/26/2020 15:00	4.6	121.0	3.3	87.4	81.9	0.0	M	100.6
9/26/2020 16:00	4.3	124.9	3.3	86.6	53.2	0.0	M	100.6
9/26/2020 17:00	4.6	116.5	3.2	87.0	24.8	0.0	M	100.7
9/26/2020 18:00	4.3	124.3	3.0	87.3	4.7	0.0	M	100.8
9/26/2020 19:00	5.0	111.1	3.0	88.4	0.1	0.0	M	100.8
9/26/2020 20:00	4.6	123.6	2.9	89.4	0.0	0.0	M	100.8
9/26/2020 21:00	4.6	115.1	2.8	90.0	0.0	0.0	M	100.8
9/26/2020 22:00	4.8	110.2	2.6	91.6	0.0	0.0	M	100.8
9/26/2020 23:00	5.3	126.1	2.8	92.3	0.0	0.0	M	100.8
9/27/2020 0:00	5.2	140.8	2.8	92.2	0.0	0.0	M	100.8
9/27/2020 1:00	4.6	148.3	2.7	92.5	0.0	0.0	M	100.9
9/27/2020 2:00	3.8	157.6	2.6	93.1	0.0	0.0	M	100.9
9/27/2020 3:00	4.1	154.1	2.7	93.0	0.0	0.0	M	101.0
9/27/2020 4:00	3.6	138.0	2.8	93.3	0.0	0.0	M	101.0
9/27/2020 5:00	3.7	127.5	2.8	94.4	0.0	0.0	M	101.0
9/27/2020 6:00	2.9	135.0	2.6	95.4	0.1	0.0	M	101.0
9/27/2020 7:00	4.6	146.9	2.4	95.7	7.9	0.0	M	101.0
9/27/2020 8:00	5.5	155.7	2.1	95.7	42.8	0.0	M	101.0
9/27/2020 9:00	4.7	149.2	2.6	93.8	124.6	1.0	M	101.0
9/27/2020 10:00	5.1	148.8	3.2	92.1	72.7	0.0	M	101.0
9/27/2020 11:00	4.9	149.5	4.3	87.9	144.8	1.0	M	101.0
9/27/2020 12:00	4.5	162.4	5.4	82.4	158.4	1.0	M	101.0
9/27/2020 13:00	5.7	171.5	6.3	75.8	181.7	1.0	M	101.0
9/27/2020 14:00	6.4	184.1	7.0	71.6	204.2	1.0	M	100.9
9/27/2020 15:00	6.3	176.6	6.7	73.1	101.6	0.0	M	100.9
9/27/2020 16:00	5.2	182.6	7.0	72.7	84.4	0.0	M	100.9
9/27/2020 17:00	5.6	172.4	6.5	74.4	31.1	0.0	M	100.9
9/27/2020 18:00	4.5	160.6	5.4	80.6	5.5	0.0	M	100.8
9/27/2020 19:00	2.8	168.1	5.1	82.0	0.1	0.0	M	100.8
9/27/2020 20:00	3.2	127.2	4.2	85.3	0.0	0.0	M	100.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/27/2020 21:00	4.0	150.3	4.1	86.3	0.0	0.0	M	100.6
9/27/2020 22:00	4.9	160.4	4.1	87.5	0.0	0.0	M	100.5
9/27/2020 23:00	3.8	159.0	3.8	89.2	0.0	0.0	M	100.5
9/28/2020 0:00	5.2	164.4	3.9	89.2	0.0	0.0	M	100.5
9/28/2020 1:00	5.6	165.3	3.9	89.1	0.0	0.0	M	100.4
9/28/2020 2:00	5.8	163.0	3.5	90.8	0.0	0.0	M	100.3
9/28/2020 3:00	5.9	173.2	4.0	88.7	0.0	0.0	M	100.3
9/28/2020 4:00	4.7	169.5	3.9	89.3	0.0	0.0	M	100.3
9/28/2020 5:00	3.7	152.4	3.7	90.7	0.0	0.0	M	100.2
9/28/2020 6:00	4.5	147.1	2.1	93.2	0.2	0.0	M	100.2
9/28/2020 7:00	3.1	142.9	1.8	94.9	6.2	0.0	M	100.1
9/28/2020 8:00	3.4	134.1	2.3	94.0	35.0	0.0	M	100.0
9/28/2020 9:00	4.9	136.0	2.7	90.5	95.9	0.0	M	100.0
9/28/2020 10:00	5.8	134.0	2.6	89.9	124.9	1.0	M	100.0
9/28/2020 11:00	6.9	134.9	3.0	88.7	135.9	1.0	M	100.0
9/28/2020 12:00	7.3	136.5	3.5	84.9	141.2	1.0	M	100.0
9/28/2020 13:00	7.7	135.7	3.1	85.8	77.3	0.0	M	99.9
9/28/2020 14:00	5.9	127.1	3.7	84.1	82.6	0.0	M	99.9
9/28/2020 15:00	6.4	115.6	4.4	82.8	92.8	0.0	M	100.0
9/28/2020 16:00	5.9	95.8	4.7	80.9	95.3	0.0	M	100.0
9/28/2020 17:00	5.6	118.1	5.1	77.4	61.2	0.0	M	100.0
9/28/2020 18:00	4.4	101.1	4.3	80.4	12.0	0.0	M	100.0
9/28/2020 19:00	4.8	96.2	3.9	83.6	0.1	0.0	M	100.0
9/28/2020 20:00	5.5	102.8	3.7	84.8	0.0	0.0	M	100.1
9/28/2020 21:00	5.1	104.3	2.9	84.8	0.0	0.0	M	100.1
9/28/2020 22:00	4.6	121.3	2.6	86.2	0.0	0.0	M	100.1
9/28/2020 23:00	4.4	121.6	2.0	88.4	0.0	0.0	M	100.2
9/29/2020 0:00	2.3	119.4	1.4	90.7	0.0	0.0	M	100.3
9/29/2020 1:00	3.0	83.2	0.9	91.7	0.0	0.0	M	100.3
9/29/2020 2:00	4.1	108.4	0.8	94.1	0.0	0.0	M	100.4
9/29/2020 3:00	1.5	109.0	0.1	95.4	0.0	0.0	M	100.5
9/29/2020 4:00	2.5	46.6	-0.5	96.0	0.0	0.0	M	100.5
9/29/2020 5:00	3.1	80.1	-0.4	96.1	0.0	0.0	M	100.6
9/29/2020 6:00	2.2	48.6	-1.1	96.6	0.1	0.0	M	100.6
9/29/2020 7:00	2.4	53.0	-0.9	96.5	6.0	0.0	M	100.7
9/29/2020 8:00	2.0	47.6	-0.7	96.0	43.3	0.0	M	100.9
9/29/2020 9:00	2.1	57.8	0.3	93.9	165.4	1.0	M	100.9
9/29/2020 10:00	3.6	77.2	0.9	93.6	162.3	1.0	M	101.0
9/29/2020 11:00	3.4	76.4	1.8	91.8	214.0	1.0	M	101.1
9/29/2020 12:00	3.7	68.0	2.2	92.1	129.7	1.0	M	101.2
9/29/2020 13:00	3.7	84.4	3.0	87.9	213.6	1.0	M	101.3
9/29/2020 14:00	4.0	89.7	3.6	82.0	306.6	1.0	M	101.4
9/29/2020 15:00	3.9	99.1	3.8	80.4	215.7	1.0	M	101.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
9/29/2020 16:00	3.6	87.4	3.5	80.2	58.8	0.0	M	101.6
9/29/2020 17:00	2.9	73.2	3.2	83.1	56.6	0.0	M	101.7
9/29/2020 18:00	2.0	54.9	2.4	87.5	5.4	0.0	M	101.8
9/29/2020 19:00	1.8	68.9	1.7	89.4	0.0	0.0	M	101.8
9/29/2020 20:00	2.5	79.4	2.2	83.7	0.0	0.0	M	101.9
9/29/2020 21:00	2.3	63.6	1.6	89.5	0.0	0.0	M	102.0
9/29/2020 22:00	0.8	22.5	1.0	93.3	0.0	0.0	M	102.0
9/29/2020 23:00	0.5	46.9	0.9	94.4	0.0	0.0	M	102.1
9/30/2020 0:00	1.0	41.7	0.7	94.2	0.0	0.0	M	102.2
9/30/2020 1:00	0.4	65.3	0.8	94.6	0.0	0.0	M	102.2
9/30/2020 2:00	0.5	53.3	0.7	95.1	0.0	0.0	M	102.3
9/30/2020 3:00	0.6	50.0	0.8	95.2	0.0	0.0	M	102.4
9/30/2020 4:00	0.2	307.5	0.4	95.9	0.0	0.0	M	102.4
9/30/2020 5:00	0.8	41.2	0.7	93.7	0.0	0.0	M	102.5
9/30/2020 6:00	0.9	36.5	0.8	91.3	0.0	0.0	M	102.5
9/30/2020 7:00	1.2	49.6	0.8	90.0	5.1	0.0	M	102.5
9/30/2020 8:00	1.5	46.6	0.7	92.7	26.2	0.0	M	102.5
9/30/2020 9:00	1.2	58.1	0.8	94.6	52.7	0.0	M	102.6
9/30/2020 10:00	0.6	48.9	1.4	92.8	99.6	0.0	M	102.6
9/30/2020 11:00	0.7	106.4	2.2	84.1	121.2	1.0	M	102.6
9/30/2020 12:00	1.4	148.3	3.0	67.9	138.8	1.0	M	102.6
9/30/2020 13:00	2.1	194.8	3.4	60.6	156.9	1.0	M	102.6
9/30/2020 14:00	2.1	205.6	3.8	58.1	203.1	1.0	M	102.6
9/30/2020 15:00	1.9	221.9	3.8	59.0	162.8	1.0	M	102.6
9/30/2020 16:00	2.5	270.7	3.0	63.9	86.2	0.0	M	102.6
9/30/2020 17:00	1.2	278.7	2.4	67.1	34.0	0.0	M	102.5
9/30/2020 18:00	1.0	319.4	2.0	69.3	3.9	0.0	M	102.5
9/30/2020 19:00	0.2	85.4	1.7	72.4	0.0	0.0	M	102.4
9/30/2020 20:00	0.2	124.1	1.7	74.4	0.0	0.0	M	102.4
9/30/2020 21:00	0.7	101.7	1.7	77.9	0.0	0.0	M	102.4
9/30/2020 22:00	0.6	143.8	1.1	81.1	0.0	0.0	M	102.3
9/30/2020 23:00	1.7	160.4	1.3	78.3	0.0	0.0	M	102.3
10/1/2020 0:00	2.0	155.8	1.4	78.8	0.0	0.0	M	102.2
10/1/2020 1:00	2.3	163.0	1.4	79.6	0.0	0.0	M	102.2
10/1/2020 2:00	1.2	135.9	1.1	85.3	0.0	0.0	M	102.1
10/1/2020 3:00	0.7	100.8	0.9	86.9	0.0	0.0	M	102.1
10/1/2020 4:00	0.7	112.7	0.9	88.5	0.0	0.0	M	102.0
10/1/2020 5:00	0.7	115.3	0.8	91.4	0.0	0.0	M	102.0
10/1/2020 6:00	1.0	105.9	0.9	92.9	0.0	0.0	M	101.9
10/1/2020 7:00	0.9	103.3	0.9	93.1	3.3	0.0	M	101.9
10/1/2020 8:00	1.2	98.5	0.9	93.3	15.3	0.0	M	101.8
10/1/2020 9:00	1.8	93.3	1.2	93.1	67.0	0.0	M	101.8
10/1/2020 10:00	2.0	110.1	1.8	91.8	86.5	0.0	M	101.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/1/2020 11:00	1.5	111.1	2.2	90.4	70.6	0.0	M	101.7
10/1/2020 12:00	1.5	99.5	2.4	86.6	76.3	0.0	M	101.7
10/1/2020 13:00	1.9	91.0	2.5	85.2	85.3	0.0	M	101.6
10/1/2020 14:00	2.5	66.8	2.5	85.9	53.3	0.0	M	101.6
10/1/2020 15:00	1.7	75.4	2.5	85.0	47.7	0.0	M	101.6
10/1/2020 16:00	1.2	86.3	2.4	86.7	25.0	0.0	M	101.6
10/1/2020 17:00	1.9	34.3	2.3	85.3	12.1	0.0	M	101.6
10/1/2020 18:00	2.8	3.3	1.7	82.0	2.4	0.0	M	101.6
10/1/2020 19:00	2.6	3.0	1.4	80.0	0.0	0.0	M	101.6
10/1/2020 20:00	2.1	7.5	1.2	82.8	0.0	0.0	M	101.6
10/1/2020 21:00	1.4	341.1	1.5	81.1	0.0	0.0	M	101.6
10/1/2020 22:00	1.6	295.9	1.1	85.9	0.0	0.0	M	101.6
10/1/2020 23:00	2.0	292.8	1.0	89.6	0.0	0.0	M	101.6
10/2/2020 0:00	2.7	299.3	1.3	91.9	0.0	0.0	M	101.6
10/2/2020 1:00	3.2	316.6	1.2	96.7	0.0	0.0	M	101.6
10/2/2020 2:00	3.3	314.5	1.1	96.8	0.0	0.0	M	101.6
10/2/2020 3:00	2.9	298.7	1.2	95.7	0.0	0.0	M	101.6
10/2/2020 4:00	3.0	295.3	1.0	96.1	0.0	0.0	M	101.6
10/2/2020 5:00	3.6	303.7	1.0	94.9	0.0	0.0	M	101.7
10/2/2020 6:00	3.5	307.9	0.9	94.7	0.0	0.0	M	101.7
10/2/2020 7:00	4.1	319.9	1.0	93.7	1.5	0.0	M	101.7
10/2/2020 8:00	3.6	319.3	0.6	93.3	10.6	0.0	M	101.7
10/2/2020 9:00	4.2	315.3	0.6	91.5	33.3	0.0	M	101.7
10/2/2020 10:00	4.4	313.0	0.6	89.5	71.1	0.0	M	101.7
10/2/2020 11:00	3.9	318.2	0.8	86.7	136.0	1.0	M	101.8
10/2/2020 12:00	4.2	296.1	1.1	86.2	142.7	1.0	M	101.7
10/2/2020 13:00	4.4	300.9	1.3	85.5	108.6	0.0	M	101.8
10/2/2020 14:00	4.3	299.3	1.5	83.2	107.5	0.0	M	101.8
10/2/2020 15:00	4.4	298.7	1.5	82.4	99.2	0.0	M	101.8
10/2/2020 16:00	3.6	297.9	1.4	82.7	51.1	0.0	M	101.8
10/2/2020 17:00	3.2	288.2	1.2	82.9	36.4	0.0	M	101.8
10/2/2020 18:00	2.7	293.4	1.0	84.1	3.3	0.0	M	101.7
10/2/2020 19:00	2.7	289.8	1.1	85.2	0.0	0.0	M	101.7
10/2/2020 20:00	3.4	312.9	1.3	87.7	0.0	0.0	M	101.8
10/2/2020 21:00	2.9	320.0	1.2	88.7	0.0	0.0	M	101.7
10/2/2020 22:00	2.3	324.6	1.2	89.0	0.0	0.0	M	101.7
10/2/2020 23:00	2.2	355.8	0.8	87.8	0.0	0.0	M	101.7
10/3/2020 0:00	2.4	342.5	0.4	87.5	0.0	0.0	M	101.7
10/3/2020 1:00	2.9	322.9	0.4	90.1	0.0	0.0	M	101.7
10/3/2020 2:00	3.5	313.3	0.1	91.4	0.0	0.0	M	101.6
10/3/2020 3:00	2.3	335.2	-0.2	92.7	0.0	0.0	M	101.6
10/3/2020 4:00	2.2	320.1	-0.2	94.3	0.0	0.0	M	101.5
10/3/2020 5:00	1.8	308.8	-0.1	95.7	0.0	0.0	M	101.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/3/2020 6:00	2.8	331.7	-0.5	97.3	0.0	0.0	M	101.5
10/3/2020 7:00	2.5	334.3	-0.9	98.9	2.4	0.0	M	101.4
10/3/2020 8:00	2.1	5.2	-1.3	99.4	17.5	0.0	M	101.4
10/3/2020 9:00	1.1	292.3	-1.6	99.4	50.1	0.0	M	101.3
10/3/2020 10:00	1.2	266.1	-1.5	99.3	82.0	0.0	M	101.3
10/3/2020 11:00	1.4	226.5	-1.2	99.3	105.5	0.0	M	101.2
10/3/2020 12:00	0.9	312.9	-0.9	99.0	95.4	0.0	M	101.1
10/3/2020 13:00	0.8	5.7	-0.7	98.5	120.4	1.0	M	101.0
10/3/2020 14:00	1.9	41.7	-0.8	97.1	107.7	0.0	M	101.0
10/3/2020 15:00	2.9	52.8	-1.3	96.4	62.0	0.0	M	100.9
10/3/2020 16:00	3.3	74.7	-1.7	97.5	19.0	0.0	M	100.8
10/3/2020 17:00	4.8	75.4	-1.8	97.2	7.5	0.0	M	100.7
10/3/2020 18:00	5.2	79.4	-1.6	95.4	1.1	0.0	M	100.7
10/3/2020 19:00	5.4	92.3	-1.0	93.7	0.0	0.0	M	100.6
10/3/2020 20:00	6.8	74.0	-1.3	91.9	0.0	0.0	M	100.6
10/3/2020 21:00	6.5	69.0	-1.8	90.4	0.0	0.0	M	100.5
10/3/2020 22:00	6.6	76.6	-2.1	91.0	0.0	0.0	M	100.4
10/3/2020 23:00	7.7	80.0	-2.3	90.3	0.0	0.0	M	100.3
10/4/2020 0:00	8.4	80.3	-2.4	90.9	0.0	0.0	M	100.2
10/4/2020 1:00	8.8	86.1	-2.6	90.5	0.0	0.0	M	100.2
10/4/2020 2:00	8.8	82.5	-2.3	88.0	0.0	0.0	M	100.2
10/4/2020 3:00	8.4	81.2	-2.2	87.1	0.0	0.0	M	100.1
10/4/2020 4:00	8.6	92.0	-1.9	85.7	0.0	0.0	M	100.1
10/4/2020 5:00	7.9	85.6	-1.9	85.8	0.0	0.0	M	100.1
10/4/2020 6:00	8.2	80.3	-1.7	81.7	0.0	0.0	M	100.0
10/4/2020 7:00	7.9	76.8	-1.8	86.1	1.5	0.0	M	100.0
10/4/2020 8:00	7.5	83.3	-1.7	87.9	10.3	0.0	M	100.0
10/4/2020 9:00	8.5	78.2	-1.8	85.3	29.6	0.0	M	100.0
10/4/2020 10:00	8.6	91.2	-1.5	82.2	54.6	0.0	M	100.0
10/4/2020 11:00	7.6	108.2	-1.0	79.8	57.2	0.0	M	100.0
10/4/2020 12:00	6.7	88.4	-1.1	77.3	57.4	0.0	M	100.0
10/4/2020 13:00	7.5	82.4	-1.0	71.7	67.1	0.0	M	100.0
10/4/2020 14:00	6.7	75.5	-1.1	75.7	69.7	0.0	M	100.0
10/4/2020 15:00	7.3	60.6	-1.7	84.3	41.7	0.0	M	100.0
10/4/2020 16:00	7.6	55.4	-1.9	77.6	30.3	0.0	M	100.0
10/4/2020 17:00	6.0	49.6	-1.8	74.2	11.1	0.0	M	100.0
10/4/2020 18:00	4.4	31.1	-2.0	71.9	1.1	0.0	M	100.1
10/4/2020 19:00	3.2	17.0	-2.2	72.4	0.0	0.0	M	100.1
10/4/2020 20:00	3.0	9.9	-2.2	71.7	0.0	0.0	M	100.1
10/4/2020 21:00	4.6	45.1	-1.8	72.4	0.0	0.0	M	100.1
10/4/2020 22:00	5.1	37.3	-2.0	72.8	0.0	0.0	M	100.1
10/4/2020 23:00	3.2	39.0	-2.1	70.3	0.0	0.0	M	100.1
10/5/2020 0:00	2.9	43.7	-2.1	71.0	0.0	0.0	M	100.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/5/2020 1:00	2.9	19.9	-2.2	78.4	0.0	0.0	M	100.1
10/5/2020 2:00	2.2	18.5	-2.4	77.9	0.0	0.0	M	100.1
10/5/2020 3:00	2.9	95.8	-2.2	81.6	0.0	0.0	M	100.2
10/5/2020 4:00	2.9	117.9	-2.2	87.9	0.0	0.0	M	100.2
10/5/2020 5:00	2.1	153.3	-2.5	87.4	0.0	0.0	M	100.2
10/5/2020 6:00	1.1	64.6	-2.9	84.1	0.0	0.0	M	100.2
10/5/2020 7:00	0.9	49.9	-2.8	83.5	2.4	0.0	M	100.2
10/5/2020 8:00	1.5	93.3	-2.4	81.8	21.2	0.0	M	100.2
10/5/2020 9:00	1.7	86.8	-2.3	80.9	52.8	0.0	M	100.1
10/5/2020 10:00	1.9	117.4	-1.8	79.7	98.3	0.0	M	100.1
10/5/2020 11:00	2.3	132.3	-1.4	78.4	122.0	1.0	M	100.1
10/5/2020 12:00	3.3	117.3	-1.2	77.5	106.6	0.0	M	100.1
10/5/2020 13:00	4.8	130.9	-1.0	81.7	272.8	1.0	M	100.1
10/5/2020 14:00	6.2	128.2	-0.8	67.0	228.1	1.0	M	100.1
10/5/2020 15:00	5.3	105.4	-1.2	67.6	83.8	0.0	M	100.1
10/5/2020 16:00	4.5	126.7	-1.1	70.1	38.5	0.0	M	100.1
10/5/2020 17:00	5.1	106.0	-1.3	73.6	19.9	0.0	M	100.1
10/5/2020 18:00	4.5	91.8	-1.8	72.2	1.9	0.0	M	100.1
10/5/2020 19:00	5.0	90.6	-1.8	73.5	0.0	0.0	M	100.2
10/5/2020 20:00	5.3	106.2	-1.5	75.7	0.0	0.0	M	100.1
10/5/2020 21:00	5.5	105.5	-1.5	73.7	0.0	0.0	M	100.1
10/5/2020 22:00	6.1	104.6	-1.4	73.3	0.0	0.0	M	100.2
10/5/2020 23:00	6.2	109.5	-1.5	72.1	0.0	0.0	M	100.2
10/6/2020 0:00	4.8	110.3	-1.7	72.3	0.0	0.0	M	100.2
10/6/2020 1:00	4.4	102.3	-2.0	75.0	0.0	0.0	M	100.2
10/6/2020 2:00	4.1	93.1	-2.1	72.4	0.0	0.0	M	100.2
10/6/2020 3:00	4.0	71.3	-2.5	73.3	0.0	0.0	M	100.2
10/6/2020 4:00	4.0	58.0	-2.7	80.0	0.0	0.0	M	100.3
10/6/2020 5:00	3.9	53.2	-2.8	81.4	0.0	0.0	M	100.3
10/6/2020 6:00	2.7	54.9	-3.0	85.5	0.0	0.0	M	100.3
10/6/2020 7:00	2.2	46.7	-3.0	89.4	2.3	0.0	M	100.4
10/6/2020 8:00	2.0	40.1	-3.0	90.1	21.4	0.0	M	100.4
10/6/2020 9:00	3.3	52.0	-2.6	91.2	60.3	0.0	M	100.5
10/6/2020 10:00	5.1	56.4	-2.4	89.5	76.7	0.0	M	100.5
10/6/2020 11:00	4.1	44.2	-2.3	88.5	118.4	0.0	M	100.6
10/6/2020 12:00	4.2	48.8	-1.6	77.4	141.1	1.0	M	100.6
10/6/2020 13:00	4.3	58.6	-1.6	75.8	110.5	0.0	M	100.7
10/6/2020 14:00	3.4	31.6	-1.3	69.2	101.1	0.0	M	100.7
10/6/2020 15:00	4.1	9.3	-1.4	66.0	81.7	0.0	M	100.8
10/6/2020 16:00	3.6	0.5	-2.0	67.5	53.2	0.0	M	100.8
10/6/2020 17:00	4.1	17.7	-1.9	68.8	36.6	0.0	M	100.9
10/6/2020 18:00	3.7	34.4	-2.2	71.3	1.0	0.0	M	100.9
10/6/2020 19:00	1.9	78.1	-2.3	76.7	0.0	0.0	M	100.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/6/2020 20:00	2.1	356.1	-2.7	82.7	0.0	0.0	M	100.9
10/6/2020 21:00	2.2	327.8	-2.5	82.2	0.0	0.0	M	100.9
10/6/2020 22:00	1.7	64.7	-2.8	86.6	0.0	0.0	M	101.0
10/6/2020 23:00	2.4	88.3	-3.3	93.4	0.0	0.0	M	101.0
10/7/2020 0:00	1.6	129.3	-3.2	91.7	0.0	0.0	M	101.0
10/7/2020 1:00	1.2	176.5	-4.0	89.9	0.0	0.0	M	101.0
10/7/2020 2:00	2.1	234.2	-5.2	90.9	0.0	0.0	M	101.1
10/7/2020 3:00	1.4	270.5	-5.2	90.0	0.0	0.0	M	101.1
10/7/2020 4:00	2.1	280.8	-5.0	90.8	0.0	0.0	M	101.1
10/7/2020 5:00	2.3	307.7	-4.2	91.6	0.0	0.0	M	101.1
10/7/2020 6:00	6.2	55.1	-4.1	92.4	0.0	0.0	M	101.2
10/7/2020 7:00	3.2	74.3	-4.4	90.1	2.0	0.0	M	101.2
10/7/2020 8:00	1.1	58.8	-4.4	87.1	19.1	0.0	M	101.2
10/7/2020 9:00	0.9	29.6	-4.0	83.4	44.3	0.0	M	101.2
10/7/2020 10:00	1.5	12.0	-3.4	75.5	69.3	0.0	M	101.2
10/7/2020 11:00	0.9	69.3	-2.9	68.7	91.7	0.0	M	101.2
10/7/2020 12:00	1.5	29.9	-2.6	63.8	102.2	0.0	M	101.2
10/7/2020 13:00	3.1	25.8	-2.8	69.6	106.1	0.0	M	101.2
10/7/2020 14:00	3.2	352.0	-2.8	66.9	109.2	0.0	M	101.2
10/7/2020 15:00	3.4	352.1	-2.9	68.8	63.0	0.0	M	101.2
10/7/2020 16:00	3.3	350.4	-3.0	69.4	23.9	0.0	M	101.2
10/7/2020 17:00	3.0	341.2	-3.0	71.9	6.2	0.0	M	101.2
10/7/2020 18:00	2.9	336.1	-3.1	73.4	0.5	0.0	M	101.2
10/7/2020 19:00	3.9	333.7	-3.1	75.5	0.0	0.0	M	101.2
10/7/2020 20:00	3.7	333.8	-3.2	77.1	0.0	0.0	M	101.2
10/7/2020 21:00	2.6	18.0	-3.6	86.8	0.0	0.0	M	101.2
10/7/2020 22:00	2.9	54.7	-3.6	83.6	0.0	0.0	M	101.2
10/7/2020 23:00	3.3	65.7	-3.6	80.7	0.0	0.0	M	101.2
10/8/2020 0:00	2.1	58.4	-3.9	82.8	0.0	0.0	M	101.2
10/8/2020 1:00	2.3	54.7	-4.0	83.4	0.0	0.0	M	101.2
10/8/2020 2:00	2.2	35.4	-4.4	82.5	0.0	0.0	M	101.2
10/8/2020 3:00	1.8	48.9	-5.1	91.3	0.0	0.0	M	101.2
10/8/2020 4:00	2.8	62.3	-5.0	93.1	0.0	0.0	M	101.2
10/8/2020 5:00	1.2	77.7	-5.3	93.7	0.0	0.0	M	101.2
10/8/2020 6:00	1.5	57.4	-5.3	93.9	0.0	0.0	M	101.2
10/8/2020 7:00	1.3	41.1	-5.5	94.0	2.0	0.0	M	101.2
10/8/2020 8:00	2.7	67.6	-5.4	90.7	15.5	0.0	M	101.2
10/8/2020 9:00	2.8	60.2	-5.4	86.2	51.4	0.0	M	101.2
10/8/2020 10:00	2.9	63.7	-5.3	82.2	96.2	0.0	M	101.2
10/8/2020 11:00	2.4	80.5	-5.0	79.4	120.6	1.0	M	101.2
10/8/2020 12:00	2.1	74.0	-4.9	75.4	116.7	0.0	M	101.2
10/8/2020 13:00	2.2	64.9	-4.8	76.8	112.6	0.0	M	101.2
10/8/2020 14:00	2.8	88.5	-4.9	79.6	98.8	0.0	M	101.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/8/2020 15:00	3.0	78.1	-4.9	78.4	61.7	0.0	M	101.2
10/8/2020 16:00	4.5	60.6	-5.1	84.2	35.1	0.0	M	101.2
10/8/2020 17:00	4.1	69.9	-5.6	82.5	7.3	0.0	M	101.2
10/8/2020 18:00	3.5	82.3	-6.0	82.6	0.8	0.0	M	101.2
10/8/2020 19:00	2.7	90.6	-5.8	84.1	0.0	0.0	M	101.2
10/8/2020 20:00	2.9	56.3	-6.1	90.6	0.0	0.0	M	101.2
10/8/2020 21:00	3.5	51.6	-6.0	90.9	0.0	0.0	M	101.2
10/8/2020 22:00	3.5	51.9	-5.9	87.4	0.0	0.0	M	101.2
10/8/2020 23:00	3.4	50.5	-5.9	86.3	0.0	0.0	M	101.2
10/9/2020 0:00	3.7	56.8	-5.9	84.7	0.0	0.0	M	101.2
10/9/2020 1:00	3.7	72.3	-5.9	85.0	0.0	0.0	M	101.2
10/9/2020 2:00	3.3	79.2	-6.0	84.4	0.0	0.0	M	101.2
10/9/2020 3:00	2.5	111.0	-5.9	85.4	0.0	0.0	M	101.2
10/9/2020 4:00	2.4	131.0	-5.9	84.0	0.0	0.0	M	101.2
10/9/2020 5:00	2.5	98.5	-6.4	82.7	0.0	0.0	M	101.1
10/9/2020 6:00	2.3	90.6	-6.7	81.1	0.0	0.0	M	101.1
10/9/2020 7:00	2.3	83.7	-7.1	82.7	1.5	0.0	M	101.1
10/9/2020 8:00	2.0	89.3	-7.1	86.4	18.0	0.0	M	101.1
10/9/2020 9:00	1.7	84.5	-6.6	87.9	66.8	0.0	M	101.1
10/9/2020 10:00	2.4	155.4	-5.5	84.0	182.2	1.0	M	101.1
10/9/2020 11:00	3.7	155.1	-4.9	79.1	234.4	1.0	M	101.0
10/9/2020 12:00	3.4	139.4	-4.6	79.1	156.1	1.0	M	101.0
10/9/2020 13:00	4.1	117.0	-4.0	76.5	200.9	1.0	M	101.0
10/9/2020 14:00	4.5	113.8	-3.9	75.0	216.7	1.0	M	101.0
10/9/2020 15:00	4.5	104.0	-4.3	76.4	154.0	1.0	M	100.9
10/9/2020 16:00	3.8	82.6	-5.5	80.3	35.4	0.0	M	100.9
10/9/2020 17:00	5.0	97.0	-5.1	84.0	14.8	0.0	M	100.8
10/9/2020 18:00	4.4	83.8	-5.5	86.4	0.5	0.0	M	100.8
10/9/2020 19:00	5.7	106.0	-4.6	89.6	0.0	0.0	M	100.8
10/9/2020 20:00	5.9	105.6	-4.7	94.5	0.0	0.0	M	100.7
10/9/2020 21:00	5.6	101.6	-4.5	95.2	0.0	0.0	M	100.7
10/9/2020 22:00	5.6	106.0	-4.0	95.8	0.0	0.0	M	100.6
10/9/2020 23:00	6.3	107.5	-3.6	94.5	0.0	0.0	M	100.6
10/10/2020 0:00	6.8	113.5	-3.4	92.9	0.0	0.0	M	100.6
10/10/2020 1:00	7.3	120.3	-3.7	88.5	0.0	0.0	M	100.5
10/10/2020 2:00	7.8	109.8	-3.3	89.5	0.0	0.0	M	100.5
10/10/2020 3:00	8.9	105.6	-3.6	90.4	0.0	0.0	M	100.4
10/10/2020 4:00	8.8	102.7	-3.6	92.6	0.0	0.0	M	100.4
10/10/2020 5:00	9.4	105.1	-3.9	93.4	0.0	0.0	M	100.3
10/10/2020 6:00	9.2	105.6	-4.1	93.8	0.0	0.0	M	100.3
10/10/2020 7:00	10.4	105.7	-4.1	93.4	1.1	0.0	M	100.2
10/10/2020 8:00	10.3	107.8	-4.3	94.1	15.9	0.0	M	100.2
10/10/2020 9:00	10.0	104.2	-4.1	95.4	36.7	0.0	M	100.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/10/2020 10:00	10.5	100.5	-3.4	95.2	110.9	0.0	M	100.0
10/10/2020 11:00	10.9	103.5	-2.8	91.6	140.2	1.0	M	100.0
10/10/2020 12:00	10.8	105.7	-2.4	91.4	85.4	0.0	M	100.0
10/10/2020 13:00	11.0	107.8	-2.0	91.5	94.6	0.0	M	99.9
10/10/2020 14:00	11.6	104.8	-1.6	92.0	83.7	0.0	M	99.9
10/10/2020 15:00	11.4	104.9	-1.4	93.2	60.3	0.0	M	99.9
10/10/2020 16:00	10.2	103.9	-1.3	94.7	27.4	0.0	M	99.9
10/10/2020 17:00	9.6	101.2	-1.1	95.5	8.0	0.0	M	99.8
10/10/2020 18:00	9.5	97.6	-1.1	96.3	0.3	0.0	M	99.8
10/10/2020 19:00	8.4	97.0	-1.0	96.1	0.0	0.0	M	99.8
10/10/2020 20:00	8.1	96.0	-0.9	96.1	0.0	0.0	M	99.8
10/10/2020 21:00	8.0	96.0	-0.8	96.0	0.0	0.0	M	99.8
10/10/2020 22:00	8.0	103.6	-0.4	96.3	0.0	0.0	M	99.8
10/10/2020 23:00	7.2	107.2	-0.2	95.5	0.0	0.0	M	99.8
10/11/2020 0:00	4.9	115.1	-0.6	94.7	0.0	0.0	M	99.8
10/11/2020 1:00	4.3	121.5	-0.8	94.8	0.0	0.0	M	99.8
10/11/2020 2:00	4.8	115.7	-0.5	94.6	0.0	0.0	M	99.8
10/11/2020 3:00	3.7	112.9	-0.5	94.4	0.0	0.0	M	99.8
10/11/2020 4:00	4.3	101.7	-0.9	93.8	0.0	0.0	M	99.9
10/11/2020 5:00	4.6	118.4	-1.9	94.4	0.0	0.0	M	99.9
10/11/2020 6:00	3.4	103.8	-3.4	95.1	0.0	0.0	M	99.9
10/11/2020 7:00	3.0	96.9	-4.2	95.4	1.1	0.0	M	99.9
10/11/2020 8:00	3.3	124.3	-4.0	95.5	11.8	0.0	M	99.9
10/11/2020 9:00	4.1	121.6	-3.3	94.9	31.8	0.0	M	100.0
10/11/2020 10:00	4.2	120.4	-1.7	94.0	89.4	0.0	M	99.9
10/11/2020 11:00	7.1	109.9	-0.3	93.5	121.3	1.0	M	99.9
10/11/2020 12:00	7.5	110.5	0.2	91.8	166.6	1.0	M	100.0
10/11/2020 13:00	7.4	107.0	0.5	91.2	159.1	1.0	M	100.0
10/11/2020 14:00	7.2	107.6	0.3	91.8	120.4	1.0	M	100.0
10/11/2020 15:00	6.2	103.1	0.1	93.0	64.9	0.0	M	100.0
10/11/2020 16:00	7.5	106.5	0.2	93.0	29.6	0.0	M	100.0
10/11/2020 17:00	8.1	107.5	0.0	91.8	6.7	0.0	M	100.0
10/11/2020 18:00	7.5	108.1	-0.2	92.4	0.2	0.0	M	100.0
10/11/2020 19:00	7.7	105.3	-0.4	93.4	0.0	0.0	M	100.0
10/11/2020 20:00	7.6	106.9	-0.5	94.4	0.0	0.0	M	100.0
10/11/2020 21:00	7.1	106.4	-0.6	94.2	0.0	0.0	M	100.0
10/11/2020 22:00	6.9	106.0	-0.7	94.3	0.0	0.0	M	100.0
10/11/2020 23:00	7.1	106.2	-0.7	95.0	0.0	0.0	M	100.0
10/12/2020 0:00	6.5	103.7	-0.8	95.3	0.0	0.0	M	100.0
10/12/2020 1:00	6.3	109.9	-0.6	95.4	0.0	0.0	M	100.0
10/12/2020 2:00	6.6	108.7	-0.7	96.0	0.0	0.0	M	100.0
10/12/2020 3:00	6.8	106.3	-0.8	97.0	0.0	0.0	M	100.0
10/12/2020 4:00	6.8	106.6	-0.8	96.5	0.0	0.0	M	100.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/12/2020 5:00	6.1	102.4	-1.0	96.4	0.0	0.0	M	100.0
10/12/2020 6:00	6.0	98.0	-1.1	97.2	0.0	0.0	M	100.0
10/12/2020 7:00	6.4	99.3	-1.2	97.7	0.2	0.0	M	100.0
10/12/2020 8:00	6.0	93.1	-1.5	97.6	9.1	0.0	M	100.0
10/12/2020 9:00	5.7	88.6	-1.7	97.4	29.8	0.0	M	100.0
10/12/2020 10:00	6.2	81.5	-1.7	96.5	63.1	0.0	M	100.0
10/12/2020 11:00	5.5	73.6	-1.9	96.2	62.4	0.0	M	100.0
10/12/2020 12:00	5.3	60.6	-2.2	95.7	83.1	0.0	M	100.0
10/12/2020 13:00	5.9	65.5	-2.2	94.2	73.1	0.0	M	100.0
10/12/2020 14:00	5.7	64.6	-2.1	94.2	47.2	0.0	M	100.0
10/12/2020 15:00	5.1	48.8	-1.8	95.9	29.7	0.0	M	100.0
10/12/2020 16:00	4.5	37.8	-1.7	97.9	15.1	0.0	M	100.0
10/12/2020 17:00	5.7	39.9	-1.6	98.5	3.1	0.0	M	100.0
10/12/2020 18:00	5.8	35.4	-1.6	97.5	0.1	0.0	M	99.9
10/12/2020 19:00	6.2	27.0	-1.6	95.3	0.0	0.0	M	99.9
10/12/2020 20:00	6.9	18.4	-1.8	95.8	0.0	0.0	M	99.8
10/12/2020 21:00	8.3	3.9	-2.1	96.5	0.0	0.0	M	99.8
10/12/2020 22:00	8.7	6.7	-2.4	96.3	0.0	0.0	M	99.7
10/12/2020 23:00	8.5	3.0	-2.6	94.8	0.0	0.0	M	99.7
10/13/2020 0:00	8.7	3.7	-2.7	95.2	0.0	0.0	M	99.6
10/13/2020 1:00	9.3	3.3	-2.7	94.6	0.0	0.0	M	99.6
10/13/2020 2:00	9.4	2.4	-2.7	93.4	0.0	0.0	M	99.5
10/13/2020 3:00	8.8	6.7	-2.7	94.9	0.0	0.0	M	99.5
10/13/2020 4:00	8.8	5.7	-2.6	96.2	0.0	0.0	M	99.4
10/13/2020 5:00	8.6	8.6	-2.5	97.0	0.0	0.0	M	99.3
10/13/2020 6:00	9.1	2.3	-2.4	97.1	0.0	0.0	M	99.3
10/13/2020 7:00	9.6	356.7	-2.0	96.6	0.0	0.0	M	99.2
10/13/2020 8:00	9.2	5.7	-2.0	97.2	3.7	0.0	M	99.1
10/13/2020 9:00	10.2	4.8	-2.2	97.1	19.5	0.0	M	99.0
10/13/2020 10:00	10.2	357.1	-2.4	96.1	42.4	0.0	M	99.0
10/13/2020 11:00	9.0	347.1	-2.5	94.9	68.8	0.0	M	98.9
10/13/2020 12:00	8.5	342.8	-2.4	94.0	76.5	0.0	M	98.8
10/13/2020 13:00	8.6	337.8	-2.2	93.0	89.7	0.0	M	98.8
10/13/2020 14:00	9.1	333.2	-2.0	91.8	83.1	0.0	M	98.7
10/13/2020 15:00	10.1	331.5	-2.0	91.1	64.3	0.0	M	98.6
10/13/2020 16:00	10.8	330.8	-2.1	92.8	19.9	0.0	M	98.6
10/13/2020 17:00	11.4	328.8	-2.1	95.3	4.1	0.0	M	98.5
10/13/2020 18:00	12.1	329.8	-2.1	95.6	0.0	0.0	M	98.5
10/13/2020 19:00	12.3	329.0	-2.0	95.4	0.0	0.0	M	98.4
10/13/2020 20:00	12.8	330.0	-2.0	96.3	0.0	0.0	M	98.3
10/13/2020 21:00	12.2	331.4	-1.9	97.2	0.0	0.0	M	98.2
10/13/2020 22:00	11.1	333.6	-1.7	97.7	0.0	0.0	M	98.1
10/13/2020 23:00	10.5	342.8	-1.3	98.3	0.0	0.0	M	98.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/14/2020 0:00	11.4	357.2	-0.7	98.4	0.0	0.0	M	98.0
10/14/2020 1:00	10.7	6.1	-0.5	98.9	0.0	0.0	M	98.1
10/14/2020 2:00	9.4	12.7	-0.5	97.8	0.0	0.0	M	98.0
10/14/2020 3:00	9.7	14.6	-0.5	96.9	0.0	0.0	M	98.1
10/14/2020 4:00	9.3	18.3	-0.5	97.2	0.0	0.0	M	98.1
10/14/2020 5:00	8.7	16.9	-0.5	97.4	0.0	0.0	M	98.1
10/14/2020 6:00	8.3	23.8	-0.5	97.3	0.0	0.0	M	98.2
10/14/2020 7:00	7.6	22.9	-0.5	97.7	0.2	0.0	M	98.2
10/14/2020 8:00	7.6	29.4	-0.3	96.9	4.4	0.0	M	98.2
10/14/2020 9:00	7.0	37.3	-0.1	97.2	22.4	0.0	M	98.3
10/14/2020 10:00	6.3	50.3	0.2	98.0	47.2	0.0	M	98.4
10/14/2020 11:00	6.0	68.4	0.5	98.2	73.2	0.0	M	98.5
10/14/2020 12:00	6.0	74.1	0.3	98.4	81.7	0.0	M	98.6
10/14/2020 13:00	6.1	65.8	0.1	95.6	89.8	0.0	M	98.7
10/14/2020 14:00	5.1	56.6	0.3	95.1	55.4	0.0	M	98.8
10/14/2020 15:00	4.4	37.6	0.6	96.7	39.7	0.0	M	98.9
10/14/2020 16:00	5.9	44.0	0.6	97.1	12.5	0.0	M	99.0
10/14/2020 17:00	6.2	47.9	0.6	97.5	3.8	0.0	M	99.1
10/14/2020 18:00	5.8	43.3	0.4	97.8	0.0	0.0	M	99.1
10/14/2020 19:00	6.6	38.6	0.4	97.4	0.0	0.0	M	99.2
10/14/2020 20:00	7.0	33.1	0.3	97.2	0.0	0.0	M	99.2
10/14/2020 21:00	7.5	29.0	0.0	98.1	0.0	0.0	M	99.3
10/14/2020 22:00	7.8	28.0	-0.1	98.6	0.0	0.0	M	99.3
10/14/2020 23:00	6.8	26.9	-0.2	99.0	0.0	0.0	M	99.4
10/15/2020 0:00	7.2	31.1	-0.2	98.5	0.0	0.0	M	99.4
10/15/2020 1:00	6.4	30.2	-0.1	97.8	0.0	0.0	M	99.5
10/15/2020 2:00	5.8	32.3	0.0	98.5	0.0	0.0	M	99.6
10/15/2020 3:00	5.8	36.7	0.1	99.1	0.0	0.0	M	99.6
10/15/2020 4:00	7.3	35.8	0.1	99.5	0.0	0.0	M	99.7
10/15/2020 5:00	8.4	43.6	0.0	99.8	0.0	0.0	M	99.7
10/15/2020 6:00	8.2	46.5	-0.4	99.6	0.0	0.0	M	99.8
10/15/2020 7:00	7.6	38.0	-0.9	99.2	0.1	0.0	M	99.9
10/15/2020 8:00	7.6	42.7	-0.7	99.1	4.8	0.0	M	100.0
10/15/2020 9:00	6.7	43.7	-0.4	99.1	28.7	0.0	M	100.0
10/15/2020 10:00	5.7	19.7	-0.4	98.6	57.7	0.0	M	100.0
10/15/2020 11:00	5.4	17.0	-0.1	97.8	60.2	0.0	M	100.1
10/15/2020 12:00	6.7	8.0	-0.3	98.3	113.8	0.0	M	100.1
10/15/2020 13:00	6.5	0.4	-0.4	98.0	111.0	0.0	M	100.1
10/15/2020 14:00	6.0	353.0	-0.4	98.2	100.1	0.0	M	100.1
10/15/2020 15:00	5.7	341.8	-0.6	98.1	60.1	0.0	M	100.1
10/15/2020 16:00	7.1	345.2	-1.1	97.6	28.5	0.0	M	100.1
10/15/2020 17:00	6.7	346.4	-1.4	97.2	3.9	0.0	M	100.2
10/15/2020 18:00	5.3	337.0	-1.7	97.7	0.0	0.0	M	100.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/15/2020 19:00	5.5	335.1	-1.8	97.2	0.0	0.0	M	100.1
10/15/2020 20:00	5.3	344.7	-1.8	96.9	0.0	0.0	M	100.1
10/15/2020 21:00	5.0	345.9	-1.5	97.4	0.0	0.0	M	100.0
10/15/2020 22:00	3.8	15.2	-1.2	97.7	0.0	0.0	M	100.1
10/15/2020 23:00	4.1	10.7	-1.4	97.3	0.0	0.0	M	100.1
10/16/2020 0:00	4.9	0.8	-1.5	97.7	0.0	0.0	M	100.1
10/16/2020 1:00	5.1	6.9	-1.6	97.6	0.0	0.0	M	100.1
10/16/2020 2:00	5.0	4.2	-1.9	97.7	0.0	0.0	M	100.1
10/16/2020 3:00	4.9	2.4	-2.1	96.1	0.0	0.0	M	100.1
10/16/2020 4:00	4.2	345.1	-2.0	94.4	0.0	0.0	M	100.1
10/16/2020 5:00	5.3	333.1	-2.2	93.6	0.0	0.0	M	100.1
10/16/2020 6:00	5.3	325.2	-2.4	94.7	0.0	0.0	M	100.1
10/16/2020 7:00	5.0	310.2	-2.4	96.0	0.1	0.0	M	100.1
10/16/2020 8:00	6.2	318.3	-1.8	97.0	6.1	0.0	M	100.1
10/16/2020 9:00	5.0	318.9	-1.3	98.1	37.6	0.0	M	100.2
10/16/2020 10:00	3.4	351.6	-0.7	98.4	59.4	0.0	M	100.2
10/16/2020 11:00	3.8	3.9	-0.8	98.5	66.6	0.0	M	100.3
10/16/2020 12:00	5.7	11.9	-0.8	98.1	89.2	0.0	M	100.3
10/16/2020 13:00	4.7	6.3	-0.8	98.0	79.2	0.0	M	100.4
10/16/2020 14:00	4.7	6.7	-0.8	98.1	46.5	0.0	M	100.4
10/16/2020 15:00	4.6	2.9	-0.9	98.1	30.6	0.0	M	100.5
10/16/2020 16:00	5.5	10.6	-1.0	98.6	13.3	0.0	M	100.5
10/16/2020 17:00	5.6	20.1	-1.0	98.8	1.9	0.0	M	100.6
10/16/2020 18:00	5.0	11.6	-0.9	98.4	0.0	0.0	M	100.6
10/16/2020 19:00	4.5	11.1	-0.9	98.4	0.0	0.0	M	100.6
10/16/2020 20:00	4.1	21.8	-0.9	99.0	0.0	0.0	M	100.7
10/16/2020 21:00	3.1	31.7	-0.8	99.0	0.0	0.0	M	100.7
10/16/2020 22:00	2.8	14.0	-0.9	99.1	0.0	0.0	M	100.8
10/16/2020 23:00	4.9	15.8	-0.7	99.3	0.0	0.0	M	100.8
10/17/2020 0:00	5.0	17.7	-1.0	99.5	0.0	0.0	M	100.9
10/17/2020 1:00	4.9	359.2	-1.1	99.1	0.0	0.0	M	100.9
10/17/2020 2:00	7.0	6.3	-1.4	99.0	0.0	0.0	M	101.0
10/17/2020 3:00	5.8	348.4	-1.7	96.1	0.0	0.0	M	101.1
10/17/2020 4:00	3.4	320.5	-1.7	94.7	0.0	0.0	M	101.1
10/17/2020 5:00	4.5	335.1	-2.1	94.8	0.0	0.0	M	101.1
10/17/2020 6:00	4.5	332.3	-2.0	94.5	0.0	0.0	M	101.2
10/17/2020 7:00	5.8	339.8	-2.0	95.1	0.0	0.0	M	101.2
10/17/2020 8:00	6.9	343.6	-2.5	96.1	4.3	0.0	M	101.2
10/17/2020 9:00	6.1	341.9	-2.4	95.2	29.4	0.0	M	101.3
10/17/2020 10:00	7.1	330.3	-2.3	94.1	70.8	0.0	M	101.4
10/17/2020 11:00	6.1	331.9	-1.7	89.9	192.7	1.0	M	101.5
10/17/2020 12:00	4.2	318.6	-1.9	90.8	101.5	0.0	M	101.5
10/17/2020 13:00	4.6	321.0	-2.1	91.2	81.7	0.0	M	101.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/17/2020 14:00	5.5	321.0	-1.7	89.6	126.0	1.0	M	101.5
10/17/2020 15:00	5.3	322.2	-1.6	91.1	52.4	0.0	M	101.6
10/17/2020 16:00	5.4	319.1	-2.1	91.0	20.1	0.0	M	101.6
10/17/2020 17:00	5.0	305.8	-2.4	91.2	3.1	0.0	M	101.6
10/17/2020 18:00	4.8	298.7	-2.4	91.0	0.0	0.0	M	101.6
10/17/2020 19:00	6.0	297.6	-2.8	89.0	0.0	0.0	M	101.6
10/17/2020 20:00	5.5	303.9	-3.4	88.8	0.0	0.0	M	101.7
10/17/2020 21:00	4.9	305.7	-3.9	90.6	0.0	0.0	M	101.7
10/17/2020 22:00	4.2	299.7	-4.2	93.3	0.0	0.0	M	101.7
10/17/2020 23:00	4.5	312.5	-4.2	94.4	0.0	0.0	M	101.7
10/18/2020 0:00	5.5	315.1	-4.5	93.9	0.0	0.0	M	101.7
10/18/2020 1:00	5.4	307.0	-4.4	93.4	0.0	0.0	M	101.7
10/18/2020 2:00	6.9	296.2	-4.5	91.1	0.0	0.0	M	101.6
10/18/2020 3:00	6.9	297.0	-4.9	93.5	0.0	0.0	M	101.6
10/18/2020 4:00	6.7	293.9	-5.2	94.3	0.0	0.0	M	101.6
10/18/2020 5:00	6.3	292.9	-5.0	92.1	0.0	0.0	M	101.6
10/18/2020 6:00	6.2	294.5	-4.7	93.1	0.0	0.0	M	101.5
10/18/2020 7:00	6.8	298.5	-4.5	92.9	0.0	0.0	M	101.5
10/18/2020 8:00	7.2	295.1	-4.3	93.0	4.3	0.0	M	101.5
10/18/2020 9:00	7.1	297.3	-4.2	92.6	18.7	0.0	M	101.5
10/18/2020 10:00	5.6	304.8	-4.1	91.7	43.5	0.0	M	101.4
10/18/2020 11:00	7.8	296.2	-4.2	89.7	75.7	0.0	M	101.3
10/18/2020 12:00	7.7	294.4	-4.3	89.2	96.0	0.0	M	101.3
10/18/2020 13:00	7.4	293.2	-4.5	89.0	102.0	0.0	M	101.3
10/18/2020 14:00	6.8	291.4	-4.6	87.9	81.2	0.0	M	101.2
10/18/2020 15:00	7.4	289.8	-4.8	87.3	56.4	0.0	M	101.2
10/18/2020 16:00	8.0	292.6	-4.9	88.4	19.4	0.0	M	101.1
10/18/2020 17:00	7.6	294.3	-5.0	89.7	2.7	0.0	M	101.1
10/18/2020 18:00	7.9	293.8	-5.0	91.8	0.0	0.0	M	101.0
10/18/2020 19:00	8.2	292.4	-5.0	92.1	0.0	0.0	M	101.0
10/18/2020 20:00	8.5	292.7	-5.0	88.6	0.0	0.0	M	100.9
10/18/2020 21:00	9.4	295.1	-5.1	87.1	0.0	0.0	M	100.8
10/18/2020 22:00	9.1	297.7	-5.2	85.4	0.0	0.0	M	100.8
10/18/2020 23:00	9.2	297.8	-5.1	85.1	0.0	0.0	M	100.8
10/19/2020 0:00	9.0	292.0	-4.9	82.7	0.0	0.0	M	100.8
10/19/2020 1:00	9.0	295.4	-5.3	80.3	0.0	0.0	M	100.8
10/19/2020 2:00	8.8	298.4	-5.4	80.3	0.0	0.0	M	100.7
10/19/2020 3:00	8.0	288.1	-5.2	79.6	0.0	0.0	M	100.7
10/19/2020 4:00	9.2	274.6	-5.2	78.9	0.0	0.0	M	100.7
10/19/2020 5:00	8.9	274.1	-5.2	78.8	0.0	0.0	M	100.7
10/19/2020 6:00	8.3	277.8	-5.2	78.6	0.0	0.0	M	100.7
10/19/2020 7:00	7.9	279.0	-5.3	78.3	0.0	0.0	M	100.6
10/19/2020 8:00	7.8	274.1	-5.2	75.2	4.4	0.0	M	100.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/19/2020 9:00	7.6	272.2	-5.1	75.4	34.2	0.0	M	100.5
10/19/2020 10:00	7.6	272.1	-4.9	77.9	57.1	0.0	M	100.5
10/19/2020 11:00	8.7	269.3	-4.7	81.6	72.4	0.0	M	100.5
10/19/2020 12:00	9.0	269.8	-4.5	82.9	111.7	0.0	M	100.5
10/19/2020 13:00	8.9	273.8	-4.4	86.3	104.3	0.0	M	100.5
10/19/2020 14:00	7.9	284.0	-4.2	85.8	81.5	0.0	M	100.5
10/19/2020 15:00	8.0	283.5	-4.3	86.1	53.0	0.0	M	100.6
10/19/2020 16:00	7.3	283.5	-4.3	84.5	22.1	0.0	M	100.6
10/19/2020 17:00	5.9	297.6	-4.5	86.9	2.0	0.0	M	100.6
10/19/2020 18:00	6.8	298.9	-4.6	86.8	0.0	0.0	M	100.5
10/19/2020 19:00	6.6	297.2	-4.6	86.0	0.0	0.0	M	100.5
10/19/2020 20:00	6.7	289.8	-4.6	84.3	0.0	0.0	M	100.5
10/19/2020 21:00	8.1	283.1	-4.3	78.0	0.0	0.0	M	100.4
10/19/2020 22:00	8.4	285.4	-4.5	85.2	0.0	0.0	M	100.5
10/19/2020 23:00	7.6	296.5	-4.5	86.5	0.0	0.0	M	100.5
10/20/2020 0:00	6.7	301.5	-4.3	85.2	0.0	0.0	M	100.5
10/20/2020 1:00	6.7	299.3	-4.4	86.0	0.0	0.0	M	100.4
10/20/2020 2:00	6.7	300.9	-4.6	87.0	0.0	0.0	M	100.5
10/20/2020 3:00	6.8	299.6	-4.7	87.5	0.0	0.0	M	100.5
10/20/2020 4:00	7.2	295.1	-4.9	88.2	0.0	0.0	M	100.5
10/20/2020 5:00	6.5	296.0	-5.1	89.8	0.0	0.0	M	100.5
10/20/2020 6:00	5.3	302.0	-5.1	91.4	0.0	0.0	M	100.5
10/20/2020 7:00	6.1	287.4	-5.1	94.2	0.0	0.0	M	100.5
10/20/2020 8:00	6.3	293.4	-4.9	96.4	2.3	0.0	M	100.5
10/20/2020 9:00	5.3	305.1	-4.9	97.2	18.0	0.0	M	100.5
10/20/2020 10:00	6.0	303.9	-4.7	88.4	57.8	0.0	M	100.5
10/20/2020 11:00	6.4	289.6	-4.0	85.2	89.9	0.0	M	100.5
10/20/2020 12:00	9.0	292.9	-3.8	88.8	90.8	0.0	M	100.5
10/20/2020 13:00	9.4	291.3	-3.5	92.5	89.9	0.0	M	100.5
10/20/2020 14:00	9.0	290.6	-3.5	93.0	54.6	0.0	M	100.5
10/20/2020 15:00	8.7	294.0	-3.4	94.3	29.0	0.0	M	100.5
10/20/2020 16:00	8.8	299.7	-2.9	94.9	9.0	0.0	M	100.5
10/20/2020 17:00	8.5	302.1	-2.9	92.8	1.6	0.0	M	100.5
10/20/2020 18:00	8.5	303.0	-2.9	91.9	0.0	0.0	M	100.5
10/20/2020 19:00	10.2	298.3	-2.8	92.8	0.0	0.0	M	100.6
10/20/2020 20:00	8.8	308.3	-2.9	92.8	0.0	0.0	M	100.6
10/20/2020 21:00	11.3	320.7	-3.4	89.8	0.0	0.0	M	100.5
10/20/2020 22:00	10.5	321.1	-3.8	89.6	0.0	0.0	M	100.6
10/20/2020 23:00	9.4	324.4	-3.8	89.9	0.0	0.0	M	100.7
10/21/2020 0:00	9.2	323.7	-3.7	90.1	0.0	0.0	M	100.7
10/21/2020 1:00	8.8	326.3	-3.8	88.9	0.0	0.0	M	100.7
10/21/2020 2:00	9.2	321.2	-4.1	88.0	0.0	0.0	M	100.7
10/21/2020 3:00	10.5	323.5	-4.7	86.2	0.0	0.0	M	100.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/21/2020 4:00	10.0	324.7	-4.5	86.7	0.0	0.0	M	100.8
10/21/2020 5:00	9.4	311.4	-4.5	89.3	0.0	0.0	M	100.9
10/21/2020 6:00	9.4	314.0	-4.7	87.5	0.0	0.0	M	100.9
10/21/2020 7:00	10.0	319.8	-5.4	86.1	0.0	0.0	M	100.9
10/21/2020 8:00	9.6	320.5	-5.9	87.0	1.9	0.0	M	100.9
10/21/2020 9:00	9.0	315.3	-6.4	86.8	11.6	0.0	M	101.0
10/21/2020 10:00	10.5	316.9	-6.8	88.8	30.2	0.0	M	101.0
10/21/2020 11:00	8.2	317.4	-7.5	89.7	57.9	0.0	M	101.1
10/21/2020 12:00	10.0	337.4	-7.3	89.1	87.1	0.0	M	101.2
10/21/2020 13:00	9.0	322.5	-7.4	86.1	64.6	0.0	M	101.2
10/21/2020 14:00	9.2	316.1	-8.0	86.8	58.3	0.0	M	101.3
10/21/2020 15:00	9.7	315.5	-8.7	87.8	41.1	0.0	M	101.3
10/21/2020 16:00	8.7	308.5	-9.5	87.7	13.5	0.0	M	101.4
10/21/2020 17:00	9.6	310.7	-10.0	87.2	1.1	0.0	M	101.4
10/21/2020 18:00	10.6	320.5	-10.6	87.0	0.0	0.0	M	101.4
10/21/2020 19:00	10.2	318.0	-10.8	87.2	0.0	0.0	M	101.5
10/21/2020 20:00	9.8	320.8	-10.0	87.0	0.0	0.0	M	101.5
10/21/2020 21:00	10.0	325.6	-9.4	86.1	0.0	0.0	M	101.6
10/21/2020 22:00	9.7	330.5	-8.5	85.3	0.0	0.0	M	101.6
10/21/2020 23:00	8.5	331.1	-7.8	88.0	0.0	0.0	M	101.6
10/22/2020 0:00	8.3	326.6	-7.4	84.9	0.0	0.0	M	101.6
10/22/2020 1:00	7.6	318.1	-7.3	87.5	0.0	0.0	M	101.6
10/22/2020 2:00	7.2	307.4	-7.1	88.6	0.0	0.0	M	101.7
10/22/2020 3:00	8.8	317.4	-6.8	89.8	0.0	0.0	M	101.7
10/22/2020 4:00	6.5	315.6	-6.2	89.1	0.0	0.0	M	101.7
10/22/2020 5:00	6.6	311.8	-5.9	89.5	0.0	0.0	M	101.7
10/22/2020 6:00	8.7	320.1	-5.5	89.4	0.0	0.0	M	101.7
10/22/2020 7:00	7.2	316.2	-5.3	88.6	0.0	0.0	M	101.7
10/22/2020 8:00	8.8	320.0	-5.5	89.1	2.5	0.0	M	101.7
10/22/2020 9:00	8.1	319.5	-5.1	88.9	17.8	0.0	M	101.7
10/22/2020 10:00	8.7	320.5	-4.9	87.6	41.2	0.0	M	101.8
10/22/2020 11:00	7.3	319.7	-4.5	87.0	67.9	0.0	M	101.8
10/22/2020 12:00	7.7	321.4	-4.1	84.4	76.5	0.0	M	101.9
10/22/2020 13:00	7.6	320.5	-3.7	86.5	86.8	0.0	M	101.9
10/22/2020 14:00	7.6	319.6	-3.6	84.4	73.7	0.0	M	101.9
10/22/2020 15:00	7.6	302.2	-3.5	84.4	39.1	0.0	M	101.9
10/22/2020 16:00	8.4	300.0	-3.3	89.7	12.2	0.0	M	101.9
10/22/2020 17:00	7.6	305.7	-3.3	90.6	1.1	0.0	M	101.9
10/22/2020 18:00	7.5	308.4	-3.2	90.0	0.0	0.0	M	101.9
10/22/2020 19:00	6.8	309.2	-3.2	91.0	0.0	0.0	M	102.0
10/22/2020 20:00	7.5	304.2	-3.3	92.5	0.0	0.0	M	101.9
10/22/2020 21:00	8.9	297.9	-3.1	88.6	0.0	0.0	M	101.9
10/22/2020 22:00	8.8	295.5	-3.2	88.1	0.0	0.0	M	101.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/22/2020 23:00	8.0	296.1	-3.4	88.3	0.0	0.0	M	101.8
10/23/2020 0:00	8.1	295.0	-3.5	87.1	0.0	0.0	M	101.8
10/23/2020 1:00	7.5	289.0	-3.2	86.0	0.0	0.0	M	101.8
10/23/2020 2:00	7.9	281.6	-3.0	84.6	0.0	0.0	M	101.8
10/23/2020 3:00	6.2	290.4	-3.0	86.4	0.0	0.0	M	101.8
10/23/2020 4:00	7.8	283.1	-2.7	82.5	0.0	0.0	M	101.7
10/23/2020 5:00	8.0	276.4	-2.6	76.0	0.0	0.0	M	101.7
10/23/2020 6:00	7.4	274.0	-2.7	71.7	0.0	0.0	M	101.6
10/23/2020 7:00	7.3	270.8	-3.5	87.6	0.0	0.0	M	101.6
10/23/2020 8:00	9.8	253.8	-3.5	87.0	1.9	0.0	M	101.5
10/23/2020 9:00	9.1	252.6	-3.9	86.4	14.2	0.0	M	101.5
10/23/2020 10:00	8.0	234.9	-4.5	87.9	29.7	0.0	M	101.4
10/23/2020 11:00	7.4	231.3	-4.9	85.3	57.9	0.0	M	101.3
10/23/2020 12:00	6.0	213.6	-5.3	83.9	73.8	0.0	M	101.2
10/23/2020 13:00	6.2	205.1	-5.4	85.4	53.4	0.0	M	101.2
10/23/2020 14:00	7.4	219.5	-4.4	87.3	54.2	0.0	M	101.1
10/23/2020 15:00	8.4	241.8	-3.1	90.7	33.6	0.0	M	101.0
10/23/2020 16:00	9.9	257.9	-2.5	95.2	20.8	0.0	M	100.9
10/23/2020 17:00	8.5	284.9	-2.3	91.0	0.5	0.0	M	100.9
10/23/2020 18:00	9.2	277.0	-2.2	86.2	0.0	0.0	M	100.9
10/23/2020 19:00	9.2	278.3	-2.4	88.8	0.0	0.0	M	100.8
10/23/2020 20:00	9.8	276.1	-2.5	87.3	0.0	0.0	M	100.8
10/23/2020 21:00	9.1	274.2	-2.7	87.9	0.0	0.0	M	100.7
10/23/2020 22:00	9.4	274.8	-2.8	88.9	0.0	0.0	M	100.7
10/23/2020 23:00	8.5	276.6	-3.0	87.2	0.0	0.0	M	100.7
10/24/2020 0:00	7.6	285.8	-3.4	85.6	0.0	0.0	M	100.7
10/24/2020 1:00	5.7	300.0	-4.5	85.1	0.0	0.0	M	100.7
10/24/2020 2:00	5.2	300.0	-5.5	87.1	0.0	0.0	M	100.7
10/24/2020 3:00	6.9	298.6	-5.0	89.7	0.0	0.0	M	100.7
10/24/2020 4:00	5.8	307.9	-4.8	89.5	0.0	0.0	M	100.8
10/24/2020 5:00	5.6	311.6	-4.9	90.3	0.0	0.0	M	100.8
10/24/2020 6:00	5.5	312.8	-4.7	91.4	0.0	0.0	M	100.8
10/24/2020 7:00	6.3	317.6	-4.5	80.9	0.0	0.0	M	100.9
10/24/2020 8:00	5.3	312.8	-4.7	84.5	1.4	0.0	M	101.0
10/24/2020 9:00	7.6	321.2	-4.7	87.9	9.0	0.0	M	101.1
10/24/2020 10:00	6.9	320.5	-4.9	88.9	28.4	0.0	M	101.1
10/24/2020 11:00	6.5	322.5	-5.0	88.0	44.2	0.0	M	101.2
10/24/2020 12:00	4.6	347.3	-4.9	87.6	58.3	0.0	M	101.3
10/24/2020 13:00	4.7	357.3	-5.4	89.0	88.0	0.0	M	101.3
10/24/2020 14:00	3.1	326.8	-4.5	88.9	58.4	0.0	M	101.4
10/24/2020 15:00	4.3	345.5	-4.1	83.6	26.2	0.0	M	101.5
10/24/2020 16:00	3.9	327.5	-4.0	82.0	8.1	0.0	M	101.5
10/24/2020 17:00	3.6	312.9	-4.3	90.6	0.5	0.0	M	101.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/24/2020 18:00	3.8	305.1	-4.4	88.2	0.0	0.0	M	101.5
10/24/2020 19:00	4.0	287.8	-4.4	81.8	0.0	0.0	M	101.5
10/24/2020 20:00	6.2	270.7	-4.7	80.9	0.0	0.0	M	101.5
10/24/2020 21:00	6.4	270.5	-5.2	87.0	0.0	0.0	M	101.4
10/24/2020 22:00	6.5	270.2	-5.1	86.1	0.0	0.0	M	101.4
10/24/2020 23:00	6.5	265.6	-5.2	85.3	0.0	0.0	M	101.3
10/25/2020 0:00	7.4	262.5	-4.7	79.8	0.0	0.0	M	101.3
10/25/2020 1:00	5.7	232.3	-4.8	79.4	0.0	0.0	M	101.2
10/25/2020 2:00	4.3	211.1	-5.5	88.7	0.0	0.0	M	101.2
10/25/2020 3:00	6.6	216.1	-5.1	86.6	0.0	0.0	M	101.1
10/25/2020 4:00	6.4	203.6	-5.9	80.0	0.0	0.0	M	101.0
10/25/2020 5:00	6.4	197.8	-6.9	83.2	0.0	0.0	M	100.9
10/25/2020 6:00	5.7	200.5	-6.6	85.6	0.0	0.0	M	100.7
10/25/2020 7:00	7.1	207.9	-6.0	85.1	0.0	0.0	M	100.6
10/25/2020 8:00	6.9	204.3	-6.2	86.8	1.8	0.0	M	100.5
10/25/2020 9:00	8.5	190.9	-6.9	87.6	17.3	0.0	M	100.3
10/25/2020 10:00	6.2	181.0	-7.5	86.6	51.6	0.0	M	100.3
10/25/2020 11:00	6.4	187.0	-7.4	85.3	73.2	0.0	M	100.1
10/25/2020 12:00	7.5	170.5	-7.7	84.9	141.5	1.0	M	100.0
10/25/2020 13:00	5.6	172.9	-6.8	85.5	114.0	0.0	M	99.8
10/25/2020 14:00	8.3	200.5	-5.6	84.8	50.2	0.0	M	99.7
10/25/2020 15:00	7.6	193.7	-4.8	86.3	20.6	0.0	M	99.6
10/25/2020 16:00	11.1	233.1	-3.1	85.3	6.1	0.0	M	99.4
10/25/2020 17:00	13.0	268.3	-2.9	83.6	0.1	0.0	M	99.4
10/25/2020 18:00	12.4	267.6	-2.8	87.0	0.0	0.0	M	99.3
10/25/2020 19:00	13.1	275.9	-3.1	86.2	0.0	0.0	M	99.3
10/25/2020 20:00	12.3	283.7	-3.0	85.6	0.0	0.0	M	99.3
10/25/2020 21:00	11.7	282.2	-3.0	82.6	0.0	0.0	M	99.3
10/25/2020 22:00	10.2	288.4	-3.5	86.6	0.0	0.0	M	99.3
10/25/2020 23:00	9.5	295.0	-3.8	89.7	0.0	0.0	M	99.3
10/26/2020 0:00	9.9	296.6	-4.9	90.3	0.0	0.0	M	99.3
10/26/2020 1:00	9.5	300.9	-5.5	90.7	0.0	0.0	M	99.4
10/26/2020 2:00	8.5	303.8	-6.3	90.6	0.0	0.0	M	99.5
10/26/2020 3:00	7.6	314.6	-6.4	90.3	0.0	0.0	M	99.6
10/26/2020 4:00	9.1	329.3	-6.6	89.9	0.0	0.0	M	99.7
10/26/2020 5:00	9.4	345.2	-6.9	84.2	0.0	0.0	M	99.7
10/26/2020 6:00	8.7	351.1	-7.5	81.3	0.0	0.0	M	99.8
10/26/2020 7:00	7.8	329.4	-7.2	83.3	0.0	0.0	M	99.9
10/26/2020 8:00	9.5	321.9	-8.4	84.8	0.7	0.0	M	99.9
10/26/2020 9:00	9.4	325.2	-9.9	84.1	9.7	0.0	M	100.0
10/26/2020 10:00	9.2	328.3	-11.2	84.5	37.8	0.0	M	100.0
10/26/2020 11:00	9.6	319.9	-11.4	82.9	57.0	0.0	M	100.1
10/26/2020 12:00	7.8	315.5	-10.7	80.0	68.9	0.0	M	100.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/26/2020 13:00	8.3	313.0	-10.5	80.6	55.5	0.0	M	100.0
10/26/2020 14:00	8.7	314.6	-10.6	80.9	49.9	0.0	M	100.0
10/26/2020 15:00	8.8	318.5	-10.6	82.7	25.2	0.0	M	100.0
10/26/2020 16:00	8.3	319.7	-10.4	86.1	5.4	0.0	M	100.0
10/26/2020 17:00	7.1	326.3	-10.1	88.0	0.1	0.0	M	100.0
10/26/2020 18:00	7.7	324.3	-10.3	87.5	0.0	0.0	M	100.1
10/26/2020 19:00	5.8	346.5	-11.1	88.6	0.0	0.0	M	100.2
10/26/2020 20:00	5.0	338.0	-10.8	87.9	0.0	0.0	M	100.2
10/26/2020 21:00	5.5	309.2	-10.7	85.1	0.0	0.0	M	100.2
10/26/2020 22:00	5.7	306.4	-10.8	83.7	0.0	0.0	M	100.2
10/26/2020 23:00	7.7	316.4	-11.1	82.8	0.0	0.0	M	100.1
10/27/2020 0:00	7.3	317.2	-11.7	82.5	0.0	0.0	M	100.2
10/27/2020 1:00	7.3	318.9	-11.4	82.0	0.0	0.0	M	100.2
10/27/2020 2:00	7.4	321.0	-11.4	80.4	0.0	0.0	M	100.2
10/27/2020 3:00	6.4	329.7	-11.3	80.7	0.0	0.0	M	100.2
10/27/2020 4:00	5.6	322.9	-11.3	80.9	0.0	0.0	M	100.3
10/27/2020 5:00	6.4	313.2	-11.4	81.1	0.0	0.0	M	100.3
10/27/2020 6:00	6.6	306.8	-11.9	81.7	0.0	0.0	M	100.4
10/27/2020 7:00	6.6	306.3	-12.3	81.5	0.0	0.0	M	100.4
10/27/2020 8:00	8.3	315.9	-12.6	80.8	0.9	0.0	M	100.4
10/27/2020 9:00	9.0	313.4	-13.0	83.0	10.8	0.0	M	100.4
10/27/2020 10:00	7.3	308.4	-13.5	84.5	28.2	0.0	M	100.5
10/27/2020 11:00	6.0	303.3	-13.6	84.7	50.1	0.0	M	100.5
10/27/2020 12:00	6.5	313.2	-13.4	82.7	80.6	0.0	M	100.6
10/27/2020 13:00	6.0	304.8	-13.2	80.6	143.5	1.0	M	100.6
10/27/2020 14:00	7.2	295.9	-13.7	84.6	95.0	0.0	M	100.6
10/27/2020 15:00	6.5	313.7	-13.7	87.0	24.7	0.0	M	100.7
10/27/2020 16:00	7.6	316.3	-13.7	87.7	5.6	0.0	M	100.7
10/27/2020 17:00	6.5	302.6	-13.3	90.1	0.1	0.0	M	100.7
10/27/2020 18:00	7.0	292.8	-12.8	90.6	0.0	0.0	M	100.7
10/27/2020 19:00	5.7	292.1	-12.9	89.7	0.0	0.0	M	100.7
10/27/2020 20:00	6.0	295.8	-12.7	88.9	0.0	0.0	M	100.7
10/27/2020 21:00	4.0	301.8	-12.2	89.3	0.0	0.0	M	100.7
10/27/2020 22:00	3.4	295.5	-11.8	89.2	0.0	0.0	M	100.7
10/27/2020 23:00	3.1	303.1	-11.8	90.0	0.0	0.0	M	100.7
10/28/2020 0:00	2.0	315.9	-11.8	90.9	0.0	0.0	M	100.7
10/28/2020 1:00	2.7	338.0	-11.7	91.1	0.0	0.0	M	100.6
10/28/2020 2:00	3.0	318.8	-11.3	89.4	0.0	0.0	M	100.6
10/28/2020 3:00	3.2	310.6	-11.3	88.7	0.0	0.0	M	100.6
10/28/2020 4:00	3.4	301.2	-11.7	87.9	0.0	0.0	M	100.6
10/28/2020 5:00	2.2	292.9	-11.5	88.3	0.0	0.0	M	100.5
10/28/2020 6:00	0.8	112.7	-11.3	89.4	0.0	0.0	M	100.5
10/28/2020 7:00	1.8	167.3	-10.7	90.5	0.0	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/28/2020 8:00	3.4	194.1	-10.2	86.8	0.4	0.0	M	100.4
10/28/2020 9:00	6.6	198.3	-10.3	82.4	8.6	0.0	M	100.3
10/28/2020 10:00	6.7	191.7	-11.2	83.0	31.3	0.0	M	100.3
10/28/2020 11:00	5.9	177.2	-12.9	82.6	88.9	0.0	M	100.2
10/28/2020 12:00	4.7	149.7	-13.6	85.8	68.5	0.0	M	100.2
10/28/2020 13:00	4.0	149.8	-12.4	87.7	53.4	0.0	M	100.1
10/28/2020 14:00	3.4	144.7	-10.8	91.3	42.7	0.0	M	100.1
10/28/2020 15:00	5.1	155.0	-9.5	92.5	30.4	0.0	M	100.0
10/28/2020 16:00	6.4	171.4	-9.1	91.3	5.5	0.0	M	99.9
10/28/2020 17:00	5.3	183.8	-8.1	91.7	0.1	0.0	M	99.8
10/28/2020 18:00	6.0	215.7	-7.4	92.0	0.0	0.0	M	99.8
10/28/2020 19:00	5.3	213.5	-7.8	91.5	0.0	0.0	M	99.7
10/28/2020 20:00	4.8	199.4	-7.7	90.5	0.0	0.0	M	99.7
10/28/2020 21:00	4.0	233.2	-7.5	91.1	0.0	0.0	M	99.7
10/28/2020 22:00	3.5	299.1	-7.7	92.1	0.0	0.0	M	99.7
10/28/2020 23:00	3.4	293.4	-8.7	94.6	0.0	0.0	M	99.7
10/29/2020 0:00	3.0	321.2	-8.7	94.9	0.0	0.0	M	99.8
10/29/2020 1:00	3.1	324.3	-10.0	94.2	0.0	0.0	M	99.9
10/29/2020 2:00	1.7	279.9	-10.3	93.9	0.0	0.0	M	99.9
10/29/2020 3:00	1.6	310.6	-10.4	93.7	0.0	0.0	M	99.9
10/29/2020 4:00	1.0	18.1	-10.6	93.5	0.0	0.0	M	100.0
10/29/2020 5:00	0.7	59.4	-11.0	93.3	0.0	0.0	M	99.9
10/29/2020 6:00	0.7	36.5	-11.0	93.2	0.0	0.0	M	100.0
10/29/2020 7:00	0.8	306.1	-10.7	93.6	0.0	0.0	M	100.0
10/29/2020 8:00	2.2	287.3	-9.5	94.5	0.4	0.0	M	100.0
10/29/2020 9:00	3.2	296.6	-9.8	94.0	6.7	0.0	M	100.0
10/29/2020 10:00	3.1	290.1	-10.6	93.4	23.8	0.0	M	100.0
10/29/2020 11:00	3.5	293.6	-11.0	93.1	38.4	0.0	M	100.1
10/29/2020 12:00	3.2	314.3	-11.0	93.0	55.2	0.0	M	100.1
10/29/2020 13:00	1.5	325.9	-11.3	92.7	36.5	0.0	M	100.1
10/29/2020 14:00	1.5	349.8	-11.9	92.4	24.5	0.0	M	100.1
10/29/2020 15:00	1.3	17.9	-12.2	92.3	16.3	0.0	M	100.1
10/29/2020 16:00	0.9	324.6	-12.4	92.1	4.2	0.0	M	100.1
10/29/2020 17:00	0.9	316.0	-12.8	91.9	0.0	0.0	M	100.2
10/29/2020 18:00	0.8	325.9	-12.6	92.0	0.0	0.0	M	100.2
10/29/2020 19:00	1.6	341.8	-12.6	92.1	0.0	0.0	M	100.2
10/29/2020 20:00	1.6	2.5	-12.0	92.6	0.0	0.0	M	100.3
10/29/2020 21:00	0.9	351.2	-11.9	92.5	0.0	0.0	M	100.3
10/29/2020 22:00	0.7	354.8	-12.2	92.2	0.0	0.0	M	100.3
10/29/2020 23:00	0.4	33.5	-12.6	91.8	0.0	0.0	M	100.3
10/30/2020 0:00	0.3	262.8	-13.5	91.1	0.0	0.0	M	100.3
10/30/2020 1:00	0.1	234.4	-13.6	91.1	0.0	0.0	M	100.4
10/30/2020 2:00	1.1	176.9	-14.2	90.6	0.0	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/30/2020 3:00	0.8	160.5	-14.2	90.7	0.0	0.0	M	100.4
10/30/2020 4:00	0.9	161.9	-14.3	90.6	0.0	0.0	M	100.4
10/30/2020 5:00	0.8	264.7	-14.0	90.8	0.0	0.0	M	100.4
10/30/2020 6:00	2.2	289.5	-14.2	90.5	0.0	0.0	M	100.4
10/30/2020 7:00	2.5	297.8	-15.2	89.8	0.0	0.0	M	100.4
10/30/2020 8:00	4.9	302.0	-16.1	89.3	0.2	0.0	M	100.4
10/30/2020 9:00	4.6	289.8	-16.5	88.8	14.4	0.0	M	100.4
10/30/2020 10:00	2.4	292.1	-15.5	88.5	60.6	0.0	M	100.4
10/30/2020 11:00	1.0	178.5	-17.0	87.7	48.3	0.0	M	100.4
10/30/2020 12:00	0.8	95.8	-18.0	87.7	54.0	0.0	M	100.4
10/30/2020 13:00	0.6	62.6	-17.0	88.6	41.7	0.0	M	100.3
10/30/2020 14:00	1.4	39.0	-15.8	89.6	21.0	0.0	M	100.3
10/30/2020 15:00	1.5	40.9	-15.4	89.8	11.5	0.0	M	100.4
10/30/2020 16:00	3.4	358.6	-15.2	89.9	2.6	0.0	M	100.5
10/30/2020 17:00	4.0	333.8	-15.7	89.4	0.0	0.0	M	100.5
10/30/2020 18:00	4.7	352.7	-16.1	89.2	0.0	0.0	M	100.5
10/30/2020 19:00	3.9	324.4	-16.2	89.0	0.0	0.0	M	100.6
10/30/2020 20:00	4.5	324.8	-16.9	88.5	0.0	0.0	M	100.7
10/30/2020 21:00	4.4	318.4	-17.4	88.0	0.0	0.0	M	100.7
10/30/2020 22:00	4.6	309.7	-18.7	86.9	0.0	0.0	M	100.8
10/30/2020 23:00	3.9	302.5	-19.5	86.3	0.0	0.0	M	100.8
10/31/2020 0:00	3.2	284.5	-20.2	85.8	0.0	0.0	M	100.9
10/31/2020 1:00	2.9	274.7	-20.4	85.6	0.0	0.0	M	100.9
10/31/2020 2:00	2.6	289.0	-20.6	85.5	0.0	0.0	M	101.0
10/31/2020 3:00	2.5	291.7	-20.5	85.6	0.0	0.0	M	101.0
10/31/2020 4:00	1.8	277.1	-20.9	84.9	0.0	0.0	M	101.0
10/31/2020 5:00	1.6	275.1	-22.0	84.0	0.0	0.0	M	101.1
10/31/2020 6:00	0.9	288.1	-23.2	83.2	0.0	0.0	M	101.1
10/31/2020 7:00	1.9	284.5	-21.1	85.0	0.0	0.0	M	101.1
10/31/2020 8:00	0.7	247.1	-22.2	84.1	0.1	0.0	M	101.2
10/31/2020 9:00	1.0	281.9	-22.2	83.6	4.0	0.0	M	101.2
10/31/2020 10:00	0.7	83.8	-25.1	81.0	19.1	0.0	M	101.2
10/31/2020 11:00	0.3	97.3	-25.1	80.8	31.2	0.0	M	101.3
10/31/2020 12:00	0.2	47.2	-25.0	81.1	34.4	0.0	M	101.3
10/31/2020 13:00	0.3	63.2	-23.3	82.7	43.7	0.0	M	101.3
10/31/2020 14:00	0.1	83.5	-22.6	82.9	45.9	0.0	M	101.3
10/31/2020 15:00	0.0	78.5	-23.9	82.1	21.5	0.0	M	101.3
10/31/2020 16:00	0.1	37.4	-27.6	78.3	2.3	0.0	M	101.3
10/31/2020 17:00	0.0	325.5	-28.5	77.5	0.0	0.0	M	101.3
10/31/2020 18:00	0.1	72.4	-28.8	77.2	0.0	0.0	M	101.3
10/31/2020 19:00	0.2	66.9	-29.2	76.9	0.0	0.0	M	101.3
10/31/2020 20:00	0.3	71.6	-29.2	76.8	0.0	0.0	M	101.3
10/31/2020 21:00	0.2	66.9	-29.5	76.5	0.0	0.0	M	101.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
10/31/2020 22:00	0.3	81.1	-29.8	76.2	0.0	0.0	M	101.2
10/31/2020 23:00	0.2	59.6	-29.7	76.2	0.0	0.0	M	101.2
11/1/2020 0:00	0.2	54.8	-29.5	76.2	0.0	0.0	M	101.2
11/1/2020 1:00	0.4	65.6	-29.7	76.2	0.0	0.0	M	101.2
11/1/2020 2:00	0.3	54.7	-30.1	75.6	0.0	0.0	M	101.2
11/1/2020 3:00	0.1	51.6	-30.3	75.3	0.0	0.0	M	101.1
11/1/2020 4:00	0.1	65.0	-30.4	75.3	0.0	0.0	M	101.2
11/1/2020 5:00	0.2	71.0	-30.6	75.1	0.0	0.0	M	101.2
11/1/2020 6:00	0.2	68.9	-31.0	74.8	0.0	0.0	M	101.1
11/1/2020 7:00	0.2	73.2	-31.0	74.8	0.0	0.0	M	101.2
11/1/2020 8:00	0.0	65.3	-31.1	74.6	0.1	0.0	M	101.1
11/1/2020 9:00	0.2	60.2	-30.4	75.4	4.4	0.0	M	101.1
11/1/2020 10:00	0.1	54.6	-29.1	76.7	15.7	0.0	M	101.1
11/1/2020 11:00	0.1	19.5	-27.9	77.9	22.7	0.0	M	101.1
11/1/2020 12:00	0.0	38.3	-25.4	80.2	28.2	0.0	M	101.1
11/1/2020 13:00	0.0	30.2	-22.2	83.0	32.3	0.0	M	101.2
11/1/2020 14:00	0.1	39.3	-20.7	84.6	26.1	0.0	M	101.2
11/1/2020 15:00	1.3	151.3	-19.2	86.3	10.0	0.0	M	101.2
11/1/2020 16:00	2.6	167.2	-18.2	87.2	1.3	0.0	M	101.2
11/1/2020 17:00	2.6	156.7	-18.4	87.1	0.0	0.0	M	101.2
11/1/2020 18:00	2.3	139.4	-19.3	86.1	0.0	0.0	M	101.2
11/1/2020 19:00	0.6	125.6	-20.9	84.6	0.0	0.0	M	101.2
11/1/2020 20:00	0.1	74.9	-21.6	83.8	0.0	0.0	M	101.3
11/1/2020 21:00	0.2	31.2	-21.2	84.5	0.0	0.0	M	101.3
11/1/2020 22:00	0.1	259.4	-21.1	84.6	0.0	0.0	M	101.3
11/1/2020 23:00	0.6	288.0	-21.1	84.5	0.0	0.0	M	101.3
11/2/2020 0:00	0.2	307.1	-20.9	84.7	0.0	0.0	M	101.4
11/2/2020 1:00	0.4	65.5	-20.5	85.2	0.0	0.0	M	101.4
11/2/2020 2:00	0.2	50.1	-19.9	85.6	0.0	0.0	M	101.4
11/2/2020 3:00	0.0	100.8	-18.8	86.5	0.0	0.0	M	101.4
11/2/2020 4:00	0.2	101.4	-17.8	87.4	0.0	0.0	M	101.5
11/2/2020 5:00	0.1	101.3	-17.0	88.1	0.0	0.0	M	101.5
11/2/2020 6:00	0.1	79.9	-16.4	88.6	0.0	0.0	M	101.5
11/2/2020 7:00	0.5	161.4	-15.5	89.3	0.0	0.0	M	101.5
11/2/2020 8:00	1.6	170.1	-16.2	88.8	0.0	0.0	M	101.5
11/2/2020 9:00	1.5	165.5	-17.5	87.8	2.7	0.0	M	101.5
11/2/2020 10:00	1.1	167.4	-18.8	86.7	10.7	0.0	M	101.5
11/2/2020 11:00	0.9	155.7	-20.6	85.1	21.1	0.0	M	101.5
11/2/2020 12:00	0.7	150.9	-21.7	84.4	29.3	0.0	M	101.5
11/2/2020 13:00	0.4	116.5	-22.1	84.2	32.7	0.0	M	101.5
11/2/2020 14:00	0.4	107.9	-24.1	82.3	28.6	0.0	M	101.5
11/2/2020 15:00	0.4	113.2	-25.7	80.7	16.6	0.0	M	101.5
11/2/2020 16:00	0.1	81.5	-27.7	78.5	1.0	0.0	M	101.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/2/2020 17:00	0.1	91.4	-28.2	78.0	0.0	0.0	M	101.4
11/2/2020 18:00	0.2	122.0	-27.7	78.6	0.0	0.0	M	101.3
11/2/2020 19:00	0.1	111.0	-27.5	78.6	0.0	0.0	M	101.2
11/2/2020 20:00	0.2	120.5	-27.2	78.9	0.0	0.0	M	101.2
11/2/2020 21:00	0.2	102.8	-27.5	78.5	0.0	0.0	M	101.2
11/2/2020 22:00	0.1	110.6	-27.6	78.4	0.0	0.0	M	101.2
11/2/2020 23:00	0.1	113.4	-27.9	78.0	0.0	0.0	M	101.2
11/3/2020 0:00	0.0	124.7	-27.4	78.5	0.0	0.0	M	101.1
11/3/2020 1:00	0.0	125.1	-27.0	78.8	0.0	0.0	M	101.1
11/3/2020 2:00	0.0	155.1	-27.1	78.7	0.0	0.0	M	101.1
11/3/2020 3:00	0.2	152.1	-25.2	80.8	0.0	0.0	M	101.0
11/3/2020 4:00	0.0	63.5	-24.6	81.2	0.0	0.0	M	100.9
11/3/2020 5:00	M	M	-23.7	81.8	0.0	0.0	M	100.9
11/3/2020 6:00	0.2	135.7	-22.6	83.0	0.0	0.0	M	100.8
11/3/2020 7:00	0.2	139.7	-21.5	84.1	0.0	0.0	M	100.8
11/3/2020 8:00	0.2	126.6	-19.8	85.8	0.0	0.0	M	100.7
11/3/2020 9:00	0.5	135.8	-18.1	87.3	1.4	0.0	M	100.6
11/3/2020 10:00	0.5	127.1	-16.7	88.4	9.9	0.0	M	100.5
11/3/2020 11:00	0.5	120.7	-16.4	88.8	17.7	0.0	M	100.5
11/3/2020 12:00	0.6	121.0	-16.6	88.8	38.4	0.0	M	100.4
11/3/2020 13:00	0.7	153.9	-18.0	87.1	37.0	0.0	M	100.3
11/3/2020 14:00	0.7	146.3	-18.0	87.5	16.4	0.0	M	100.2
11/3/2020 15:00	0.7	144.5	-17.3	88.1	7.5	0.0	M	100.2
11/3/2020 16:00	0.5	130.5	-16.1	89.1	0.9	0.0	M	100.1
11/3/2020 17:00	3.1	135.8	-16.1	88.7	0.0	0.0	M	100.1
11/3/2020 18:00	2.8	131.9	-16.5	88.4	0.0	0.0	M	100.1
11/3/2020 19:00	2.9	144.0	-17.9	87.3	0.0	0.0	M	100.1
11/3/2020 20:00	2.2	149.6	-18.7	86.5	0.0	0.0	M	100.1
11/3/2020 21:00	0.4	50.0	-20.5	84.6	0.0	0.0	M	100.1
11/3/2020 22:00	0.0	73.2	-21.8	83.8	0.0	0.0	M	100.2
11/3/2020 23:00	0.1	41.3	-23.2	82.5	0.0	0.0	M	100.2
11/4/2020 0:00	M	M	-23.5	82.3	0.0	0.0	M	100.2
11/4/2020 1:00	M	M	-25.1	80.4	0.0	0.0	M	100.3
11/4/2020 2:00	1.9	288.1	-24.7	82.0	0.0	0.0	M	100.3
11/4/2020 3:00	4.9	290.7	-21.1	84.9	0.0	0.0	M	100.3
11/4/2020 4:00	3.9	304.8	-20.2	85.4	0.0	0.0	M	100.4
11/4/2020 5:00	4.0	316.3	-19.5	86.2	0.0	0.0	M	100.4
11/4/2020 6:00	5.0	295.0	-19.3	86.3	0.0	0.0	M	100.5
11/4/2020 7:00	3.4	294.8	-19.7	85.8	0.0	0.0	M	100.5
11/4/2020 8:00	2.6	294.2	-19.4	86.4	0.0	0.0	M	100.6
11/4/2020 9:00	3.1	270.9	-18.1	87.5	1.6	0.0	M	100.6
11/4/2020 10:00	2.4	253.2	-17.3	88.0	8.0	0.0	M	100.7
11/4/2020 11:00	2.3	252.1	-16.3	88.9	15.7	0.0	M	100.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/4/2020 12:00	4.2	290.9	-15.2	89.7	19.0	0.0	M	100.8
11/4/2020 13:00	2.7	251.7	-15.0	89.7	19.9	0.0	M	100.8
11/4/2020 14:00	3.7	206.1	-15.0	89.8	13.5	0.0	M	100.8
11/4/2020 15:00	5.5	222.9	-14.8	89.8	5.2	0.0	M	100.9
11/4/2020 16:00	6.2	237.2	-15.4	89.0	0.6	0.0	M	100.9
11/4/2020 17:00	6.0	218.9	-16.7	87.5	0.0	0.0	M	100.9
11/4/2020 18:00	4.5	194.3	-16.1	88.1	0.0	0.0	M	100.9
11/4/2020 19:00	4.7	206.6	-16.4	87.4	0.0	0.0	M	101.0
11/4/2020 20:00	4.3	218.4	-15.6	88.3	0.0	0.0	M	101.0
11/4/2020 21:00	6.6	242.6	-13.3	89.3	0.0	0.0	M	100.9
11/4/2020 22:00	8.9	258.8	-12.6	89.6	0.0	0.0	M	101.0
11/4/2020 23:00	8.8	261.0	-12.8	89.0	0.0	0.0	M	101.0
11/5/2020 0:00	8.7	258.1	-12.9	88.8	0.0	0.0	M	101.0
11/5/2020 1:00	7.5	260.4	-12.6	88.6	0.0	0.0	M	101.1
11/5/2020 2:00	7.5	254.3	-12.1	88.6	0.0	0.0	M	101.1
11/5/2020 3:00	7.7	251.6	-12.0	89.7	0.0	0.0	M	101.1
11/5/2020 4:00	7.6	247.0	-11.7	88.0	0.0	0.0	M	101.2
11/5/2020 5:00	8.5	248.8	-11.7	86.6	0.0	0.0	M	101.1
11/5/2020 6:00	7.5	244.7	-11.9	84.0	0.0	0.0	M	101.1
11/5/2020 7:00	6.3	234.8	-11.7	84.6	0.0	0.0	M	101.1
11/5/2020 8:00	8.2	246.8	-11.3	86.3	0.0	0.0	M	101.1
11/5/2020 9:00	7.8	238.5	-11.3	84.3	4.2	0.0	M	101.2
11/5/2020 10:00	6.5	233.4	-11.3	85.4	20.1	0.0	M	101.1
11/5/2020 11:00	6.9	248.9	-10.5	87.1	35.4	0.0	M	101.2
11/5/2020 12:00	7.0	254.5	-10.6	89.4	31.2	0.0	M	101.2
11/5/2020 13:00	8.3	261.3	-10.4	90.5	38.6	0.0	M	101.2
11/5/2020 14:00	7.3	258.0	-10.6	90.7	25.9	0.0	M	101.3
11/5/2020 15:00	5.6	272.2	-10.8	89.8	9.2	0.0	M	101.4
11/5/2020 16:00	4.3	273.5	-11.0	87.3	1.2	0.0	M	101.4
11/5/2020 17:00	3.6	265.0	-11.0	88.3	0.0	0.0	M	101.4
11/5/2020 18:00	4.6	260.3	-10.7	90.7	0.0	0.0	M	101.3
11/5/2020 19:00	4.3	275.1	-10.7	89.6	0.0	0.0	M	101.4
11/5/2020 20:00	2.5	292.0	-11.3	88.9	0.0	0.0	M	101.3
11/5/2020 21:00	1.5	282.1	-11.6	89.6	0.0	0.0	M	101.3
11/5/2020 22:00	4.0	246.5	-11.1	90.1	0.0	0.0	M	101.2
11/5/2020 23:00	5.8	237.9	-11.0	87.0	0.0	0.0	M	101.2
11/6/2020 0:00	4.2	226.5	-11.5	85.7	0.0	0.0	M	101.2
11/6/2020 1:00	3.8	193.8	-12.1	86.2	0.0	0.0	M	101.2
11/6/2020 2:00	4.9	192.2	-12.7	85.8	0.0	0.0	M	101.2
11/6/2020 3:00	5.7	209.1	-13.6	84.3	0.0	0.0	M	101.1
11/6/2020 4:00	3.8	159.3	-14.9	83.5	0.0	0.0	M	101.2
11/6/2020 5:00	2.4	139.1	-16.6	84.7	0.0	0.0	M	101.1
11/6/2020 6:00	1.8	140.2	-17.3	86.6	0.0	0.0	M	101.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/6/2020 7:00	2.0	146.2	-18.0	85.6	0.0	0.0	M	101.0
11/6/2020 8:00	4.3	169.2	-18.0	84.1	0.0	0.0	M	100.9
11/6/2020 9:00	1.2	84.6	-17.5	86.5	2.5	0.0	M	100.9
11/6/2020 10:00	2.9	150.6	-16.3	85.7	14.9	0.0	M	100.8
11/6/2020 11:00	2.0	142.9	-14.8	85.2	43.2	0.0	M	100.7
11/6/2020 12:00	3.0	186.7	-13.6	82.6	50.9	0.0	M	100.7
11/6/2020 13:00	4.9	190.4	-14.4	81.5	44.0	0.0	M	100.6
11/6/2020 14:00	2.0	199.5	-15.9	82.5	33.0	0.0	M	100.6
11/6/2020 15:00	2.7	170.3	-16.2	84.4	12.1	0.0	M	100.5
11/6/2020 16:00	3.9	171.3	-16.3	84.2	1.7	0.0	M	100.4
11/6/2020 17:00	1.9	152.3	-17.2	84.8	0.0	0.0	M	100.4
11/6/2020 18:00	3.2	169.7	-17.0	86.1	0.0	0.0	M	100.4
11/6/2020 19:00	0.9	103.9	-18.0	87.0	0.0	0.0	M	100.3
11/6/2020 20:00	0.9	110.6	-19.1	87.4	0.0	0.0	M	100.3
11/6/2020 21:00	0.5	165.7	-20.0	86.3	0.0	0.0	M	100.3
11/6/2020 22:00	0.8	96.6	-19.9	86.1	0.0	0.0	M	100.3
11/6/2020 23:00	0.5	84.9	-19.4	86.4	0.0	0.0	M	100.2
11/7/2020 0:00	0.5	110.2	-19.3	86.5	0.0	0.0	M	100.2
11/7/2020 1:00	0.5	81.9	-18.9	86.5	0.0	0.0	M	100.2
11/7/2020 2:00	0.2	82.3	-19.1	86.4	0.0	0.0	M	100.2
11/7/2020 3:00	0.5	114.3	-19.2	86.3	0.0	0.0	M	100.3
11/7/2020 4:00	0.4	62.5	-18.9	86.7	0.0	0.0	M	100.2
11/7/2020 5:00	0.4	51.1	-19.1	86.4	0.0	0.0	M	100.2
11/7/2020 6:00	0.5	101.1	-19.0	86.6	0.0	0.0	M	100.2
11/7/2020 7:00	0.6	57.7	-18.8	86.7	0.0	0.0	M	100.2
11/7/2020 8:00	0.3	22.2	-18.8	86.8	0.0	0.0	M	100.2
11/7/2020 9:00	0.3	54.6	-19.4	86.2	1.9	0.0	M	100.3
11/7/2020 10:00	0.4	54.4	-20.0	85.6	11.2	0.0	M	100.3
11/7/2020 11:00	0.1	73.0	-20.5	85.0	22.8	0.0	M	100.3
11/7/2020 12:00	0.3	41.5	-21.5	83.8	49.3	0.0	M	100.3
11/7/2020 13:00	0.2	78.9	-20.8	84.6	61.8	0.0	M	100.4
11/7/2020 14:00	0.3	70.5	-22.3	83.1	47.5	0.0	M	100.4
11/7/2020 15:00	0.4	76.0	-23.4	82.6	7.7	0.0	M	100.5
11/7/2020 16:00	0.5	68.8	-23.6	82.6	0.9	0.0	M	100.5
11/7/2020 17:00	0.6	87.0	-23.5	82.8	0.0	0.0	M	100.5
11/7/2020 18:00	0.4	33.5	-21.2	85.0	0.0	0.0	M	100.5
11/7/2020 19:00	0.5	83.9	-19.0	86.8	0.0	0.0	M	100.5
11/7/2020 20:00	0.5	65.5	-18.3	86.8	0.0	0.0	M	100.5
11/7/2020 21:00	0.8	129.5	-18.3	87.4	0.0	0.0	M	100.5
11/7/2020 22:00	0.9	114.6	-16.7	88.5	0.0	0.0	M	100.5
11/7/2020 23:00	2.4	204.1	-15.4	89.1	0.0	0.0	M	100.5
11/8/2020 0:00	3.0	173.6	-16.8	87.8	0.0	0.0	M	100.5
11/8/2020 1:00	1.7	136.5	-18.5	86.9	0.0	0.0	M	100.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/8/2020 2:00	1.8	118.8	-19.6	86.1	0.0	0.0	M	100.5
11/8/2020 3:00	1.3	139.5	-20.2	86.0	0.0	0.0	M	100.4
11/8/2020 4:00	1.9	131.7	-18.2	87.6	0.0	0.0	M	100.4
11/8/2020 5:00	2.3	129.3	-15.8	89.8	0.0	0.0	M	100.4
11/8/2020 6:00	2.3	180.0	-13.0	90.1	0.0	0.0	M	100.3
11/8/2020 7:00	5.0	174.2	-12.1	89.2	0.0	0.0	M	100.3
11/8/2020 8:00	2.4	152.6	-10.3	90.0	0.0	0.0	M	100.3
11/8/2020 9:00	2.5	131.7	-8.6	92.3	1.8	0.0	M	100.3
11/8/2020 10:00	3.7	240.7	-5.3	92.8	8.2	0.0	M	100.2
11/8/2020 11:00	5.2	229.6	-3.5	90.5	17.0	0.0	M	100.2
11/8/2020 12:00	6.3	229.9	-2.9	87.2	33.9	0.0	M	100.2
11/8/2020 13:00	7.5	223.5	-3.3	87.2	65.5	0.0	M	100.1
11/8/2020 14:00	7.4	200.6	-3.9	89.9	31.4	0.0	M	100.1
11/8/2020 15:00	8.2	191.6	-4.5	91.3	6.7	0.0	M	100.1
11/8/2020 16:00	7.3	187.2	-4.3	91.1	0.7	0.0	M	100.0
11/8/2020 17:00	7.0	189.6	-4.2	88.7	0.0	0.0	M	99.9
11/8/2020 18:00	7.7	204.6	-3.6	87.0	0.0	0.0	M	99.8
11/8/2020 19:00	7.7	191.8	-3.7	88.6	0.0	0.0	M	99.7
11/8/2020 20:00	9.1	193.4	-3.7	88.3	0.0	0.0	M	99.7
11/8/2020 21:00	7.8	195.0	-3.7	91.0	0.0	0.0	M	99.6
11/8/2020 22:00	6.0	189.4	-3.6	91.3	0.0	0.0	M	99.6
11/8/2020 23:00	7.2	196.4	-3.5	91.0	0.0	0.0	M	99.5
11/9/2020 0:00	8.4	201.8	-3.3	82.1	0.0	0.0	M	99.4
11/9/2020 1:00	7.7	185.5	-3.7	82.0	0.0	0.0	M	99.3
11/9/2020 2:00	8.8	177.1	-3.5	82.4	0.0	0.0	M	99.2
11/9/2020 3:00	10.7	191.8	-3.8	82.4	0.0	0.0	M	99.1
11/9/2020 4:00	11.1	208.2	-5.5	83.8	0.0	0.0	M	99.0
11/9/2020 5:00	8.0	207.4	-6.1	85.4	0.0	0.0	M	99.1
11/9/2020 6:00	6.3	201.1	-6.8	86.4	0.0	0.0	M	99.0
11/9/2020 7:00	3.5	197.8	-7.2	87.7	0.0	0.0	M	98.9
11/9/2020 8:00	3.6	195.4	-7.7	88.5	0.0	0.0	M	98.9
11/9/2020 9:00	3.3	225.0	-8.8	87.2	1.3	0.0	M	98.9
11/9/2020 10:00	4.0	216.6	-8.9	83.5	7.2	0.0	M	98.9
11/9/2020 11:00	5.4	238.7	-7.8	86.1	22.0	0.0	M	98.8
11/9/2020 12:00	7.7	255.1	-6.6	92.1	25.1	0.0	M	98.9
11/9/2020 13:00	6.0	300.6	-6.6	93.9	20.8	0.0	M	99.0
11/9/2020 14:00	7.3	307.9	-9.2	87.4	10.1	0.0	M	99.1
11/9/2020 15:00	7.9	306.2	-12.1	86.9	5.6	0.0	M	99.2
11/9/2020 16:00	6.8	316.9	-14.4	83.5	0.3	0.0	M	99.4
11/9/2020 17:00	8.0	301.8	-17.9	82.1	0.0	0.0	M	99.5
11/9/2020 18:00	9.0	302.4	-21.1	80.0	0.0	0.0	M	99.7
11/9/2020 19:00	7.4	285.1	-21.9	79.9	0.0	0.0	M	99.7
11/9/2020 20:00	6.5	290.1	-22.9	79.1	0.0	0.0	M	99.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/9/2020 21:00	5.4	285.3	-22.9	78.6	0.0	0.0	M	99.8
11/9/2020 22:00	6.5	275.0	-22.2	81.1	0.0	0.0	M	99.9
11/9/2020 23:00	8.4	273.1	-21.7	78.9	0.0	0.0	M	99.9
11/10/2020 0:00	8.3	267.1	-21.1	79.0	0.0	0.0	M	99.8
11/10/2020 1:00	10.3	264.4	-19.8	80.3	0.0	0.0	M	99.8
11/10/2020 2:00	10.4	269.6	-18.8	79.3	0.0	0.0	M	99.8
11/10/2020 3:00	12.3	268.8	-18.3	77.9	0.0	0.0	M	99.7
11/10/2020 4:00	12.4	267.3	-18.3	79.1	0.0	0.0	M	99.7
11/10/2020 5:00	12.5	264.0	-18.1	80.1	0.0	0.0	M	99.6
11/10/2020 6:00	11.8	260.6	-17.9	80.3	0.0	0.0	M	99.7
11/10/2020 7:00	13.0	266.0	-17.5	80.5	0.0	0.0	M	99.6
11/10/2020 8:00	12.5	264.1	-17.6	81.6	0.0	0.0	M	99.7
11/10/2020 9:00	11.9	264.1	-17.2	82.2	1.3	0.0	M	99.6
11/10/2020 10:00	13.5	268.3	-16.1	82.2	10.7	0.0	M	99.4
11/10/2020 11:00	15.5	266.9	-15.2	83.1	33.4	0.0	M	99.4
11/10/2020 12:00	15.6	261.2	-14.7	88.4	34.4	0.0	M	99.2
11/10/2020 13:00	17.0	268.1	-14.4	88.8	29.2	0.0	M	99.1
11/10/2020 14:00	17.0	269.1	-14.7	87.4	17.6	0.0	M	99.2
11/10/2020 15:00	15.5	271.1	-14.9	88.2	6.8	0.0	M	99.1
11/10/2020 16:00	15.0	266.3	-14.4	89.8	0.4	0.0	M	99.0
11/10/2020 17:00	13.8	279.7	-14.0	90.2	0.0	0.0	M	99.2
11/10/2020 18:00	9.2	298.3	-15.1	86.8	0.0	0.0	M	99.4
11/10/2020 19:00	7.8	292.1	-16.0	85.0	0.0	0.0	M	99.4
11/10/2020 20:00	10.4	284.5	-14.6	87.2	0.0	0.0	M	99.5
11/10/2020 21:00	10.7	296.1	-13.9	88.4	0.0	0.0	M	99.5
11/10/2020 22:00	10.8	300.0	-14.8	87.5	0.0	0.0	M	99.6
11/10/2020 23:00	10.6	301.0	-15.5	86.9	0.0	0.0	M	99.7
11/11/2020 0:00	9.7	300.3	-16.1	84.2	0.0	0.0	M	99.8
11/11/2020 1:00	10.2	297.7	-16.7	83.8	0.0	0.0	M	99.9
11/11/2020 2:00	9.2	293.6	-16.1	83.4	0.0	0.0	M	99.9
11/11/2020 3:00	9.8	283.2	-15.5	83.0	0.0	0.0	M	99.9
11/11/2020 4:00	9.3	279.4	-14.9	83.7	0.0	0.0	M	100.0
11/11/2020 5:00	8.6	275.3	-14.8	82.7	0.0	0.0	M	99.9
11/11/2020 6:00	9.5	275.5	-14.3	82.0	0.0	0.0	M	99.9
11/11/2020 7:00	9.5	273.2	-14.0	84.3	0.0	0.0	M	99.9
11/11/2020 8:00	11.7	265.3	-13.8	85.5	0.0	0.0	M	99.8
11/11/2020 9:00	12.1	267.6	-13.8	87.8	0.9	0.0	M	99.8
11/11/2020 10:00	11.3	282.1	-13.8	88.1	6.1	0.0	M	99.8
11/11/2020 11:00	10.6	283.0	-13.9	86.1	27.3	0.0	M	99.7
11/11/2020 12:00	12.0	279.9	-14.2	85.9	58.2	0.0	M	99.6
11/11/2020 13:00	13.1	273.7	-13.7	86.5	43.3	0.0	M	99.7
11/11/2020 14:00	12.8	266.6	-13.2	85.7	22.9	0.0	M	99.7
11/11/2020 15:00	9.5	277.8	-13.1	88.6	5.8	0.0	M	99.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/11/2020 16:00	6.7	278.8	-13.7	87.8	0.2	0.0	M	99.8
11/11/2020 17:00	8.5	269.2	-12.8	86.9	0.0	0.0	M	99.7
11/11/2020 18:00	8.8	265.8	-12.3	86.2	0.0	0.0	M	99.7
11/11/2020 19:00	10.4	263.6	-12.2	86.1	0.0	0.0	M	99.6
11/11/2020 20:00	11.1	264.5	-12.2	84.0	0.0	0.0	M	99.5
11/11/2020 21:00	12.5	257.0	-13.1	87.7	0.0	0.0	M	99.4
11/11/2020 22:00	13.0	254.2	-13.7	88.5	0.0	0.0	M	99.3
11/11/2020 23:00	12.3	251.9	-14.0	87.0	0.0	0.0	M	99.5
11/12/2020 0:00	10.4	250.9	-14.5	84.0	0.0	0.0	M	99.5
11/12/2020 1:00	8.6	240.5	-14.3	82.7	0.0	0.0	M	99.4
11/12/2020 2:00	7.6	231.1	-14.2	83.4	0.0	0.0	M	99.4
11/12/2020 3:00	6.0	220.8	-14.5	84.2	0.0	0.0	M	99.3
11/12/2020 4:00	5.8	218.8	-14.6	85.7	0.0	0.0	M	99.2
11/12/2020 5:00	5.1	221.3	-15.0	86.2	0.0	0.0	M	99.2
11/12/2020 6:00	3.4	184.6	-16.8	82.8	0.0	0.0	M	99.1
11/12/2020 7:00	3.6	194.6	-17.7	77.0	0.0	0.0	M	99.1
11/12/2020 8:00	4.1	165.2	-18.2	74.4	0.0	0.0	M	99.0
11/12/2020 9:00	2.2	150.7	-19.3	78.9	1.2	0.0	M	98.9
11/12/2020 10:00	1.4	151.5	-17.7	71.7	16.9	0.0	M	98.8
11/12/2020 11:00	6.6	197.6	-16.4	63.2	26.0	0.0	M	98.6
11/12/2020 12:00	9.1	197.3	-16.1	64.8	60.1	0.0	M	98.5
11/12/2020 13:00	7.4	208.3	-16.5	66.4	58.4	0.0	M	98.4
11/12/2020 14:00	9.7	208.8	-16.2	66.4	24.2	0.0	M	98.3
11/12/2020 15:00	7.5	218.7	-16.0	70.7	4.1	0.0	M	98.3
11/12/2020 16:00	6.0	219.7	-15.7	74.3	0.1	0.0	M	98.2
11/12/2020 17:00	4.2	225.5	-16.8	76.0	0.0	0.0	M	98.3
11/12/2020 18:00	3.5	261.1	-16.3	79.0	0.0	0.0	M	98.2
11/12/2020 19:00	5.0	264.6	-15.2	81.4	0.0	0.0	M	98.1
11/12/2020 20:00	5.6	264.1	-14.8	84.1	0.0	0.0	M	98.1
11/12/2020 21:00	5.8	267.8	-14.5	86.7	0.0	0.0	M	98.1
11/12/2020 22:00	4.7	317.6	-14.9	86.0	0.0	0.0	M	98.1
11/12/2020 23:00	4.0	326.6	-15.5	85.0	0.0	0.0	M	98.1
11/13/2020 0:00	2.8	321.4	-16.0	83.3	0.0	0.0	M	98.2
11/13/2020 1:00	3.5	311.7	-15.9	83.4	0.0	0.0	M	98.2
11/13/2020 2:00	7.2	356.4	-15.6	85.0	0.0	0.0	M	98.2
11/13/2020 3:00	8.8	357.9	-16.8	82.9	0.0	0.0	M	98.3
11/13/2020 4:00	9.1	353.7	-18.6	82.9	0.0	0.0	M	98.3
11/13/2020 5:00	8.8	351.6	-20.0	81.3	0.0	0.0	M	98.4
11/13/2020 6:00	7.8	340.8	-21.3	81.2	0.0	0.0	M	98.5
11/13/2020 7:00	7.6	317.0	-22.9	80.4	0.0	0.0	M	98.6
11/13/2020 8:00	7.4	302.5	-25.0	79.0	0.0	0.0	M	98.7
11/13/2020 9:00	6.3	292.6	-26.0	78.1	0.5	0.0	M	98.7
11/13/2020 10:00	5.0	282.4	-26.4	78.0	14.4	0.0	M	98.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/13/2020 11:00	9.3	287.6	-25.0	80.0	41.1	0.0	M	98.8
11/13/2020 12:00	8.4	284.4	-23.8	79.9	26.5	0.0	M	98.8
11/13/2020 13:00	8.6	288.1	-23.4	79.6	47.4	0.0	M	98.9
11/13/2020 14:00	9.0	290.2	-23.0	79.1	18.3	0.0	M	98.9
11/13/2020 15:00	8.8	289.3	-22.7	79.8	5.2	0.0	M	99.0
11/13/2020 16:00	7.7	284.1	-22.3	79.7	0.2	0.0	M	99.1
11/13/2020 17:00	8.7	296.3	-21.3	80.8	0.0	0.0	M	99.1
11/13/2020 18:00	8.3	293.9	-20.4	80.4	0.0	0.0	M	99.1
11/13/2020 19:00	8.4	295.2	-20.2	80.8	0.0	0.0	M	99.2
11/13/2020 20:00	7.6	289.5	-20.7	80.6	0.0	0.0	M	99.3
11/13/2020 21:00	7.8	285.7	-21.7	80.4	0.0	0.0	M	99.3
11/13/2020 22:00	7.2	275.2	-21.9	81.4	0.0	0.0	M	99.4
11/13/2020 23:00	8.4	271.5	-21.5	83.5	0.0	0.0	M	99.5
11/14/2020 0:00	6.8	262.6	-21.5	83.3	0.0	0.0	M	99.5
11/14/2020 1:00	8.5	264.8	-21.0	83.8	0.0	0.0	M	99.5
11/14/2020 2:00	9.6	269.5	-20.4	85.6	0.0	0.0	M	99.5
11/14/2020 3:00	9.3	270.1	-18.8	86.0	0.0	0.0	M	99.5
11/14/2020 4:00	9.8	262.6	-18.5	84.7	0.0	0.0	M	99.5
11/14/2020 5:00	9.3	245.9	-19.0	84.2	0.0	0.0	M	99.6
11/14/2020 6:00	8.0	242.5	-19.5	84.1	0.0	0.0	M	99.6
11/14/2020 7:00	7.7	240.7	-19.4	85.4	0.0	0.0	M	99.6
11/14/2020 8:00	7.8	231.3	-20.1	82.4	0.0	0.0	M	99.6
11/14/2020 9:00	5.0	203.9	-21.0	79.1	0.4	0.0	M	99.5
11/14/2020 10:00	5.9	212.9	-21.2	75.4	8.3	0.0	M	99.6
11/14/2020 11:00	6.0	217.6	-19.8	77.7	25.7	0.0	M	99.5
11/14/2020 12:00	8.4	229.7	-18.4	78.5	27.7	0.0	M	99.5
11/14/2020 13:00	8.6	233.6	-18.1	76.9	22.2	0.0	M	99.5
11/14/2020 14:00	9.2	232.2	-18.2	74.9	15.5	0.0	M	99.4
11/14/2020 15:00	10.2	239.1	-18.1	76.1	5.4	0.0	M	99.4
11/14/2020 16:00	9.9	233.4	-17.9	78.7	0.0	0.0	M	99.4
11/14/2020 17:00	9.0	229.2	-17.7	79.5	0.0	0.0	M	99.4
11/14/2020 18:00	9.5	233.6	-17.6	78.3	0.0	0.0	M	99.4
11/14/2020 19:00	8.9	232.5	-17.7	79.3	0.0	0.0	M	99.3
11/14/2020 20:00	8.9	230.8	-17.6	80.5	0.0	0.0	M	99.2
11/14/2020 21:00	9.9	232.4	-17.3	81.2	0.0	0.0	M	99.2
11/14/2020 22:00	10.6	231.5	-16.9	81.5	0.0	0.0	M	99.2
11/14/2020 23:00	10.0	226.3	-16.5	82.6	0.0	0.0	M	99.1
11/15/2020 0:00	9.7	230.2	-15.7	83.1	0.0	0.0	M	99.2
11/15/2020 1:00	9.9	235.7	-15.0	84.3	0.0	0.0	M	99.2
11/15/2020 2:00	11.2	240.2	-14.6	85.3	0.0	0.0	M	99.1
11/15/2020 3:00	11.5	239.7	-14.1	86.4	0.0	0.0	M	99.1
11/15/2020 4:00	12.6	241.8	-13.5	85.4	0.0	0.0	M	99.0
11/15/2020 5:00	12.9	242.2	-12.6	86.6	0.0	0.0	M	98.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/15/2020 6:00	13.6	243.2	-12.0	88.3	0.0	0.0	M	98.9
11/15/2020 7:00	12.9	243.2	-11.4	91.1	0.0	0.0	M	99.0
11/15/2020 8:00	13.8	246.6	-10.8	91.6	0.0	0.0	M	99.0
11/15/2020 9:00	14.0	249.7	-10.2	92.7	0.1	0.0	M	99.0
11/15/2020 10:00	13.8	250.3	-9.9	93.1	2.5	0.0	M	99.1
11/15/2020 11:00	13.9	249.4	-9.7	93.5	7.3	0.0	M	99.1
11/15/2020 12:00	11.8	244.7	-9.7	92.7	13.9	0.0	M	99.2
11/15/2020 13:00	11.9	242.1	-9.5	92.5	8.2	0.0	M	99.2
11/15/2020 14:00	12.1	245.8	-9.1	93.0	5.3	0.0	M	99.2
11/15/2020 15:00	11.6	272.8	-9.6	92.5	2.1	0.0	M	99.3
11/15/2020 16:00	10.7	278.7	-10.2	90.8	0.0	0.0	M	99.4
11/15/2020 17:00	10.9	276.9	-10.4	86.6	0.0	0.0	M	99.5
11/15/2020 18:00	10.7	280.1	-10.6	89.0	0.0	0.0	M	99.5
11/15/2020 19:00	8.1	295.6	-11.2	88.4	0.0	0.0	M	99.6
11/15/2020 20:00	7.1	300.1	-11.8	82.9	0.0	0.0	M	99.7
11/15/2020 21:00	7.7	291.3	-11.9	82.5	0.0	0.0	M	99.7
11/15/2020 22:00	7.0	286.0	-11.6	87.9	0.0	0.0	M	99.8
11/15/2020 23:00	9.5	281.9	-11.2	91.7	0.0	0.0	M	99.8
11/16/2020 0:00	9.5	290.9	-11.3	89.8	0.0	0.0	M	100.0
11/16/2020 1:00	8.1	294.1	-11.4	84.6	0.0	0.0	M	100.0
11/16/2020 2:00	7.8	284.0	-11.1	88.8	0.0	0.0	M	100.1
11/16/2020 3:00	8.0	293.1	-12.1	88.9	0.0	0.0	M	100.1
11/16/2020 4:00	6.7	288.9	-13.0	87.6	0.0	0.0	M	100.3
11/16/2020 5:00	5.8	288.2	-13.4	87.0	0.0	0.0	M	100.3
11/16/2020 6:00	8.2	294.5	-12.7	85.4	0.0	0.0	M	100.4
11/16/2020 7:00	6.2	297.8	-12.8	85.1	0.0	0.0	M	100.6
11/16/2020 8:00	7.5	292.5	-11.4	86.4	0.0	0.0	M	100.6
11/16/2020 9:00	7.3	293.6	-11.0	84.0	0.2	0.0	M	100.6
11/16/2020 10:00	6.0	284.5	-11.0	86.8	3.4	0.0	M	100.7
11/16/2020 11:00	8.2	273.9	-10.9	87.6	9.2	0.0	M	100.7
11/16/2020 12:00	9.3	272.7	-11.2	85.6	16.5	0.0	M	100.7
11/16/2020 13:00	9.9	278.9	-11.3	84.4	22.7	0.0	M	100.8
11/16/2020 14:00	10.0	282.7	-11.6	78.3	11.1	0.0	M	100.8
11/16/2020 15:00	9.2	282.7	-11.7	79.1	2.0	0.0	M	100.8
11/16/2020 16:00	11.1	277.1	-12.5	81.8	0.0	0.0	M	100.8
11/16/2020 17:00	9.4	278.3	-13.0	78.9	0.0	0.0	M	100.9
11/16/2020 18:00	8.1	280.9	-13.0	82.2	0.0	0.0	M	101.0
11/16/2020 19:00	7.8	277.0	-13.4	85.6	0.0	0.0	M	100.9
11/16/2020 20:00	9.2	262.7	-13.9	86.4	0.0	0.0	M	100.8
11/16/2020 21:00	10.1	259.8	-14.5	87.0	0.0	0.0	M	100.9
11/16/2020 22:00	9.9	261.4	-14.3	87.7	0.0	0.0	M	100.9
11/16/2020 23:00	9.1	265.2	-14.3	88.4	0.0	0.0	M	100.9
11/17/2020 0:00	6.5	257.1	-14.6	89.0	0.0	0.0	M	101.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/17/2020 1:00	8.4	260.1	-14.3	88.4	0.0	0.0	M	100.9
11/17/2020 2:00	9.1	259.3	-14.7	88.4	0.0	0.0	M	100.9
11/17/2020 3:00	9.0	255.4	-14.6	88.2	0.0	0.0	M	100.9
11/17/2020 4:00	8.7	255.5	-14.5	87.2	0.0	0.0	M	100.9
11/17/2020 5:00	8.2	249.8	-14.5	86.1	0.0	0.0	M	100.8
11/17/2020 6:00	6.8	251.9	-14.9	84.3	0.0	0.0	M	100.9
11/17/2020 7:00	6.8	244.6	-14.9	83.6	0.0	0.0	M	100.8
11/17/2020 8:00	5.9	225.8	-15.8	82.6	0.0	0.0	M	100.8
11/17/2020 9:00	3.8	219.4	-16.9	83.5	0.3	0.0	M	100.7
11/17/2020 10:00	5.4	215.2	-16.8	82.4	6.7	0.0	M	100.7
11/17/2020 11:00	5.7	200.4	-16.9	79.0	25.3	0.0	M	100.6
11/17/2020 12:00	7.5	215.9	-16.6	75.0	47.6	0.0	M	100.5
11/17/2020 13:00	4.7	204.3	-16.3	74.1	33.2	0.0	M	100.5
11/17/2020 14:00	4.3	180.3	-16.3	76.8	12.6	0.0	M	100.5
11/17/2020 15:00	4.2	173.0	-17.1	79.1	3.3	0.0	M	100.4
11/17/2020 16:00	4.8	174.8	-16.6	80.5	0.0	0.0	M	100.4
11/17/2020 17:00	5.2	174.2	-16.4	81.5	0.0	0.0	M	100.3
11/17/2020 18:00	6.2	191.0	-15.4	81.1	0.0	0.0	M	100.2
11/17/2020 19:00	7.3	212.6	-14.5	79.3	0.0	0.0	M	100.2
11/17/2020 20:00	6.1	213.0	-14.1	79.4	0.0	0.0	M	100.2
11/17/2020 21:00	7.7	213.2	-14.0	81.2	0.0	0.0	M	100.1
11/17/2020 22:00	6.6	215.5	-13.8	82.9	0.0	0.0	M	100.1
11/17/2020 23:00	7.0	219.5	-13.5	85.8	0.0	0.0	M	100.0
11/18/2020 0:00	6.0	220.4	-13.5	87.1	0.0	0.0	M	100.1
11/18/2020 1:00	4.7	220.4	-13.0	88.3	0.0	0.0	M	100.0
11/18/2020 2:00	4.6	217.5	-12.8	88.6	0.0	0.0	M	100.0
11/18/2020 3:00	3.9	211.2	-12.6	89.0	0.0	0.0	M	100.0
11/18/2020 4:00	4.6	219.7	-12.6	89.6	0.0	0.0	M	100.0
11/18/2020 5:00	4.4	255.5	-12.1	91.1	0.0	0.0	M	100.0
11/18/2020 6:00	4.6	306.4	-12.5	91.0	0.0	0.0	M	100.1
11/18/2020 7:00	7.9	338.0	-14.6	88.5	0.0	0.0	M	100.1
11/18/2020 8:00	8.6	341.4	-17.3	86.1	0.0	0.0	M	100.2
11/18/2020 9:00	7.7	322.5	-19.5	84.1	0.1	0.0	M	100.3
11/18/2020 10:00	8.1	311.6	-20.7	83.0	3.1	0.0	M	100.4
11/18/2020 11:00	6.8	293.0	-21.5	82.1	17.2	0.0	M	100.6
11/18/2020 12:00	6.3	288.9	-21.8	80.3	23.5	0.0	M	100.7
11/18/2020 13:00	4.4	275.7	-22.3	80.9	18.5	0.0	M	100.7
11/18/2020 14:00	2.9	293.1	-22.3	81.3	10.2	0.0	M	100.8
11/18/2020 15:00	5.9	295.8	-21.2	80.8	2.2	0.0	M	100.8
11/18/2020 16:00	6.2	291.3	-20.7	80.2	0.0	0.0	M	100.8
11/18/2020 17:00	5.4	281.5	-21.0	81.8	0.0	0.0	M	100.8
11/18/2020 18:00	7.2	267.3	-20.5	82.8	0.0	0.0	M	100.7
11/18/2020 19:00	7.4	258.4	-20.3	82.7	0.0	0.0	M	100.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/18/2020 20:00	7.0	254.0	-19.6	84.3	0.0	0.0	M	100.6
11/18/2020 21:00	8.1	254.7	-17.8	85.1	0.0	0.0	M	100.5
11/18/2020 22:00	10.0	260.2	-16.6	87.0	0.0	0.0	M	100.4
11/18/2020 23:00	10.7	262.0	-15.8	87.5	0.0	0.0	M	100.4
11/19/2020 0:00	10.9	263.9	-15.2	87.9	0.0	0.0	M	100.4
11/19/2020 1:00	12.4	266.0	-15.1	87.3	0.0	0.0	M	100.4
11/19/2020 2:00	10.3	271.6	-15.0	88.2	0.0	0.0	M	100.4
11/19/2020 3:00	10.3	267.8	-14.9	88.2	0.0	0.0	M	100.3
11/19/2020 4:00	10.0	272.2	-14.6	88.9	0.0	0.0	M	100.3
11/19/2020 5:00	10.2	271.6	-14.3	88.4	0.0	0.0	M	100.3
11/19/2020 6:00	9.9	282.5	-14.3	88.5	0.0	0.0	M	100.2
11/19/2020 7:00	10.1	282.6	-14.9	88.2	0.0	0.0	M	100.2
11/19/2020 8:00	9.3	284.3	-15.5	88.0	0.0	0.0	M	100.2
11/19/2020 9:00	8.1	301.5	-15.9	85.3	0.0	0.0	M	100.4
11/19/2020 10:00	7.2	313.3	-17.6	77.5	3.2	0.0	M	100.4
11/19/2020 11:00	4.9	297.7	-18.6	79.6	13.2	0.0	M	100.5
11/19/2020 12:00	4.9	297.8	-17.9	80.9	19.5	0.0	M	100.5
11/19/2020 13:00	3.8	293.9	-17.5	81.9	15.2	0.0	M	100.6
11/19/2020 14:00	4.0	299.8	-17.0	83.0	7.8	0.0	M	100.5
11/19/2020 15:00	2.2	286.1	-17.4	82.7	1.7	0.0	M	100.6
11/19/2020 16:00	2.3	290.9	-17.3	82.9	0.0	0.0	M	100.6
11/19/2020 17:00	2.4	297.3	-17.1	82.8	0.0	0.0	M	100.6
11/19/2020 18:00	2.0	288.1	-16.9	83.3	0.0	0.0	M	100.6
11/19/2020 19:00	1.3	312.4	-17.0	83.1	0.0	0.0	M	100.6
11/19/2020 20:00	1.3	27.6	-17.2	84.2	0.0	0.0	M	100.6
11/19/2020 21:00	0.9	230.7	-17.1	85.2	0.0	0.0	M	100.6
11/19/2020 22:00	1.3	288.2	-17.3	86.0	0.0	0.0	M	100.6
11/19/2020 23:00	0.6	47.2	-18.7	86.5	0.0	0.0	M	100.6
11/20/2020 0:00	0.6	133.5	-19.8	86.3	0.0	0.0	M	100.6
11/20/2020 1:00	0.3	160.0	-20.6	85.3	0.0	0.0	M	100.6
11/20/2020 2:00	0.4	325.0	-19.6	86.6	0.0	0.0	M	100.6
11/20/2020 3:00	0.5	242.7	-17.9	87.7	0.0	0.0	M	100.5
11/20/2020 4:00	1.0	257.7	-17.2	88.1	0.0	0.0	M	100.5
11/20/2020 5:00	3.0	244.4	-15.9	89.6	0.0	0.0	M	100.5
11/20/2020 6:00	4.2	237.7	-15.6	89.1	0.0	0.0	M	100.5
11/20/2020 7:00	3.0	255.4	-15.4	88.7	0.0	0.0	M	100.5
11/20/2020 8:00	1.1	190.6	-15.8	88.3	0.0	0.0	M	100.5
11/20/2020 9:00	1.6	170.0	-15.9	88.2	0.0	0.0	M	100.4
11/20/2020 10:00	3.6	209.4	-15.8	86.9	2.4	0.0	M	100.4
11/20/2020 11:00	1.9	155.8	-16.3	86.3	10.6	0.0	M	100.4
11/20/2020 12:00	0.9	158.1	-16.1	88.1	20.1	0.0	M	100.4
11/20/2020 13:00	1.2	157.7	-15.7	88.4	16.8	0.0	M	100.4
11/20/2020 14:00	1.1	153.2	-15.2	88.9	7.9	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/20/2020 15:00	0.4	106.6	-15.5	88.5	1.4	0.0	M	100.4
11/20/2020 16:00	0.6	14.3	-16.8	89.0	0.0	0.0	M	100.4
11/20/2020 17:00	0.1	299.4	-16.9	88.6	0.0	0.0	M	100.4
11/20/2020 18:00	0.5	27.0	-17.4	88.1	0.0	0.0	M	100.4
11/20/2020 19:00	0.4	31.8	-17.3	88.1	0.0	0.0	M	100.4
11/20/2020 20:00	0.1	249.2	-18.6	87.0	0.0	0.0	M	100.5
11/20/2020 21:00	0.7	288.2	-18.5	87.6	0.0	0.0	M	100.5
11/20/2020 22:00	0.2	249.1	-19.3	86.4	0.0	0.0	M	100.6
11/20/2020 23:00	1.1	283.2	-19.9	86.0	0.0	0.0	M	100.6
11/21/2020 0:00	2.2	297.6	-20.1	85.8	0.0	0.0	M	100.7
11/21/2020 1:00	4.2	269.3	-21.5	84.8	0.0	0.0	M	100.7
11/21/2020 2:00	3.6	279.4	-20.9	85.3	0.0	0.0	M	100.8
11/21/2020 3:00	3.7	291.2	-19.7	86.1	0.0	0.0	M	100.9
11/21/2020 4:00	3.1	282.1	-19.8	86.1	0.0	0.0	M	100.9
11/21/2020 5:00	3.9	287.6	-20.2	85.3	0.0	0.0	M	101.0
11/21/2020 6:00	3.5	290.1	-21.7	84.4	0.0	0.0	M	101.0
11/21/2020 7:00	6.5	289.5	-20.9	85.2	0.0	0.0	M	101.0
11/21/2020 8:00	7.6	295.8	-20.0	85.8	0.0	0.0	M	101.2
11/21/2020 9:00	5.9	289.8	-20.0	85.7	0.0	0.0	M	101.2
11/21/2020 10:00	6.4	278.1	-20.1	85.6	2.2	0.0	M	101.2
11/21/2020 11:00	6.3	293.5	-19.3	86.5	6.7	0.0	M	101.3
11/21/2020 12:00	5.6	302.6	-18.9	86.0	7.8	0.0	M	101.4
11/21/2020 13:00	4.4	280.6	-20.2	85.2	13.5	0.0	M	101.4
11/21/2020 14:00	5.9	279.2	-19.5	86.3	7.7	0.0	M	101.4
11/21/2020 15:00	7.9	280.8	-17.9	87.4	2.2	0.0	M	101.5
11/21/2020 16:00	7.7	283.9	-17.3	87.5	0.0	0.0	M	101.4
11/21/2020 17:00	7.9	278.8	-16.8	87.8	0.0	0.0	M	101.4
11/21/2020 18:00	8.7	277.0	-16.5	88.1	0.0	0.0	M	101.4
11/21/2020 19:00	7.6	278.2	-16.1	88.1	0.0	0.0	M	101.4
11/21/2020 20:00	9.0	280.0	-15.4	87.8	0.0	0.0	M	101.4
11/21/2020 21:00	9.8	276.0	-16.0	87.8	0.0	0.0	M	101.3
11/21/2020 22:00	10.0	277.9	-16.1	88.4	0.0	0.0	M	101.4
11/21/2020 23:00	9.6	280.6	-15.5	88.8	0.0	0.0	M	101.3
11/22/2020 0:00	11.0	271.9	-15.4	88.2	0.0	0.0	M	101.3
11/22/2020 1:00	10.0	266.9	-15.6	88.0	0.0	0.0	M	101.4
11/22/2020 2:00	8.6	275.3	-15.3	88.8	0.0	0.0	M	101.4
11/22/2020 3:00	8.2	279.5	-15.1	89.0	0.0	0.0	M	101.4
11/22/2020 4:00	8.6	282.4	-14.8	89.1	0.0	0.0	M	101.3
11/22/2020 5:00	8.6	281.8	-15.2	89.2	0.0	0.0	M	101.3
11/22/2020 6:00	7.5	287.5	-15.0	89.2	0.0	0.0	M	101.4
11/22/2020 7:00	7.1	287.4	-15.5	89.0	0.0	0.0	M	101.4
11/22/2020 8:00	6.5	287.9	-15.4	89.2	0.0	0.0	M	101.4
11/22/2020 9:00	6.3	291.9	-15.5	89.2	0.0	0.0	M	101.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/22/2020 10:00	6.9	295.1	-15.5	88.9	2.0	0.0	M	101.4
11/22/2020 11:00	7.0	275.4	-15.9	89.0	8.0	0.0	M	101.3
11/22/2020 12:00	6.6	275.8	-16.1	89.3	14.0	0.0	M	101.4
11/22/2020 13:00	5.7	277.7	-16.1	89.2	12.2	0.0	M	101.4
11/22/2020 14:00	3.4	274.8	-16.7	88.5	6.3	0.0	M	101.4
11/22/2020 15:00	3.8	282.5	-16.9	88.5	1.4	0.0	M	101.4
11/22/2020 16:00	4.1	285.1	-16.9	88.5	0.0	0.0	M	101.5
11/22/2020 17:00	3.7	282.5	-17.1	88.4	0.0	0.0	M	101.5
11/22/2020 18:00	3.0	296.9	-16.8	88.7	0.0	0.0	M	101.4
11/22/2020 19:00	1.1	268.2	-16.5	88.6	0.0	0.0	M	101.4
11/22/2020 20:00	3.4	286.4	-16.0	89.3	0.0	0.0	M	101.4
11/22/2020 21:00	1.1	266.1	-15.6	89.4	0.0	0.0	M	101.4
11/22/2020 22:00	0.4	214.9	-15.3	89.5	0.0	0.0	M	101.4
11/22/2020 23:00	0.7	288.7	-15.2	89.7	0.0	0.0	M	101.4
11/23/2020 0:00	2.0	247.2	-15.0	89.8	0.0	0.0	M	101.4
11/23/2020 1:00	4.2	263.0	-14.9	90.1	0.0	0.0	M	101.4
11/23/2020 2:00	4.6	265.3	-14.6	89.8	0.0	0.0	M	101.4
11/23/2020 3:00	1.3	154.7	-14.6	89.7	0.0	0.0	M	101.3
11/23/2020 4:00	0.8	186.9	-14.9	89.3	0.0	0.0	M	101.3
11/23/2020 5:00	0.4	18.5	-15.2	89.2	0.0	0.0	M	101.3
11/23/2020 6:00	0.3	254.5	-16.1	88.9	0.0	0.0	M	101.2
11/23/2020 7:00	0.3	253.2	-17.2	88.3	0.0	0.0	M	101.2
11/23/2020 8:00	0.4	320.0	-18.3	87.7	0.0	0.0	M	101.2
11/23/2020 9:00	0.2	108.8	-19.3	86.5	0.0	0.0	M	101.2
11/23/2020 10:00	0.2	27.8	-20.4	85.3	1.7	0.0	M	101.2
11/23/2020 11:00	0.1	50.7	-21.1	84.7	7.0	0.0	M	101.2
11/23/2020 12:00	0.2	117.7	-21.9	83.7	16.9	0.0	M	101.2
11/23/2020 13:00	0.2	106.1	-22.7	83.1	11.9	0.0	M	101.1
11/23/2020 14:00	0.1	96.4	-23.8	82.2	6.0	0.0	M	101.1
11/23/2020 15:00	C	C	-24.7	81.3	1.0	0.0	M	101.1
11/23/2020 16:00	C	C	-25.5	80.6	0.0	0.0	M	101.1
11/23/2020 17:00	C	C	-26.0	80.2	0.0	0.0	M	101.1
11/23/2020 18:00	0.3	132.0	-26.2	80.0	0.0	0.0	M	101.0
11/23/2020 19:00	0.4	68.7	-26.0	80.3	0.0	0.0	M	101.0
11/23/2020 20:00	0.3	18.9	-24.4	81.8	0.0	0.0	M	101.0
11/23/2020 21:00	0.4	14.3	-23.7	82.1	0.0	0.0	M	101.0
11/23/2020 22:00	0.1	310.3	-24.1	81.6	0.0	0.0	M	100.9
11/23/2020 23:00	0.3	95.7	-25.0	80.8	0.0	0.0	M	100.9
11/24/2020 0:00	0.1	1.7	-26.0	80.0	0.0	0.0	M	100.8
11/24/2020 1:00	0.1	333.1	-26.6	79.4	0.0	0.0	M	100.8
11/24/2020 2:00	M	M	-26.9	79.1	0.0	0.0	M	100.8
11/24/2020 3:00	0.2	92.0	-27.3	78.8	0.0	0.0	M	100.8
11/24/2020 4:00	0.4	100.2	-27.3	79.0	0.0	0.0	M	100.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/24/2020 5:00	0.4	60.1	-27.5	78.6	0.0	0.0	M	100.8
11/24/2020 6:00	0.1	74.7	-26.9	79.1	0.0	0.0	M	100.7
11/24/2020 7:00	0.2	91.5	-27.0	78.9	0.0	0.0	M	100.7
11/24/2020 8:00	0.4	75.2	-27.6	78.4	0.0	0.0	M	100.7
11/24/2020 9:00	0.4	104.4	-27.0	79.1	0.0	0.0	M	100.6
11/24/2020 10:00	0.4	112.4	-27.6	78.3	1.4	0.0	M	100.6
11/24/2020 11:00	0.3	108.2	-27.5	78.5	8.5	0.0	M	100.6
11/24/2020 12:00	0.2	99.7	-27.3	78.6	10.7	0.0	M	100.6
11/24/2020 13:00	0.5	85.8	-27.1	78.8	8.8	0.0	M	100.6
11/24/2020 14:00	0.6	70.7	-27.4	78.6	4.7	0.0	M	100.6
11/24/2020 15:00	0.3	138.3	-27.4	78.6	0.7	0.0	M	100.5
11/24/2020 16:00	0.5	93.9	-26.7	79.3	0.0	0.0	M	100.5
11/24/2020 17:00	0.3	54.1	-26.6	79.3	0.0	0.0	M	100.5
11/24/2020 18:00	0.4	75.8	-26.0	79.9	0.0	0.0	M	100.4
11/24/2020 19:00	0.6	81.1	-25.5	80.5	0.0	0.0	M	100.5
11/24/2020 20:00	0.7	95.8	-24.7	81.1	0.0	0.0	M	100.4
11/24/2020 21:00	1.2	115.2	-24.2	81.7	0.0	0.0	M	100.4
11/24/2020 22:00	1.1	109.6	-24.9	80.9	0.0	0.0	M	100.3
11/24/2020 23:00	0.8	97.5	-25.4	80.4	0.0	0.0	M	100.3
11/25/2020 0:00	0.5	105.4	-26.0	79.9	0.0	0.0	M	100.3
11/25/2020 1:00	0.3	91.8	-26.7	79.1	0.0	0.0	M	100.3
11/25/2020 2:00	0.4	112.9	-26.6	79.3	0.0	0.0	M	100.3
11/25/2020 3:00	0.3	83.5	-26.6	79.2	0.0	0.0	M	100.3
11/25/2020 4:00	0.6	116.8	-26.7	79.2	0.0	0.0	M	100.2
11/25/2020 5:00	0.3	93.2	-27.9	77.8	0.0	0.0	M	100.2
11/25/2020 6:00	0.1	113.9	-27.9	78.1	0.0	0.0	M	100.2
11/25/2020 7:00	M	M	-28.2	77.5	0.0	0.0	M	100.2
11/25/2020 8:00	M	M	-28.3	77.4	0.0	0.0	M	100.2
11/25/2020 9:00	M	M	-28.3	77.5	0.0	0.0	M	100.2
11/25/2020 10:00	1.7	293.2	-26.5	80.0	0.5	0.0	M	100.2
11/25/2020 11:00	3.3	294.2	-24.9	80.9	3.5	0.0	M	100.2
11/25/2020 12:00	2.9	299.3	-24.0	81.9	7.4	0.0	M	100.2
11/25/2020 13:00	2.9	289.2	-23.9	81.7	10.1	0.0	M	100.2
11/25/2020 14:00	3.1	293.5	-23.1	82.8	4.0	0.0	M	100.2
11/25/2020 15:00	2.3	289.6	-22.2	83.5	0.3	0.0	M	100.2
11/25/2020 16:00	4.1	287.6	-21.7	84.1	0.0	0.0	M	100.2
11/25/2020 17:00	4.3	286.6	-21.1	84.6	0.0	0.0	M	100.3
11/25/2020 18:00	4.1	286.4	-21.0	84.5	0.0	0.0	M	100.3
11/25/2020 19:00	4.3	292.7	-21.0	84.8	0.0	0.0	M	100.3
11/25/2020 20:00	4.3	292.3	-20.7	85.0	0.0	0.0	M	100.3
11/25/2020 21:00	3.5	290.9	-20.5	85.2	0.0	0.0	M	100.3
11/25/2020 22:00	3.3	292.7	-20.4	85.1	0.0	0.0	M	100.3
11/25/2020 23:00	1.8	305.7	-20.7	84.8	0.0	0.0	M	100.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/26/2020 0:00	0.5	24.2	-22.1	83.0	0.0	0.0	M	100.3
11/26/2020 1:00	0.1	37.8	-24.7	81.2	0.0	0.0	M	100.4
11/26/2020 2:00	0.3	118.8	-26.1	79.4	0.0	0.0	M	100.4
11/26/2020 3:00	0.1	44.2	-27.3	78.8	0.0	0.0	M	100.4
11/26/2020 4:00	0.1	47.9	-26.4	79.7	0.0	0.0	M	100.4
11/26/2020 5:00	0.1	59.4	-25.9	80.0	0.0	0.0	M	100.4
11/26/2020 6:00	0.3	57.5	-25.7	80.0	0.0	0.0	M	100.4
11/26/2020 7:00	0.4	66.8	-25.7	80.0	0.0	0.0	M	100.3
11/26/2020 8:00	1.0	46.6	-25.4	80.5	0.0	0.0	M	100.3
11/26/2020 9:00	1.4	61.5	-24.7	81.0	0.0	0.0	M	100.3
11/26/2020 10:00	1.1	54.9	-25.2	80.4	0.6	0.0	M	100.3
11/26/2020 11:00	2.0	60.3	-25.9	80.0	3.3	0.0	M	100.3
11/26/2020 12:00	2.1	83.0	-26.3	79.7	5.3	0.0	M	100.3
11/26/2020 13:00	1.8	75.3	-26.8	79.1	5.0	0.0	M	100.2
11/26/2020 14:00	1.7	91.3	-26.4	79.6	2.4	0.0	M	100.2
11/26/2020 15:00	2.1	57.8	-26.8	79.1	0.2	0.0	M	100.2
11/26/2020 16:00	2.4	61.6	-26.8	79.1	0.0	0.0	M	100.2
11/26/2020 17:00	2.1	65.6	-27.3	78.6	0.0	0.0	M	100.1
11/26/2020 18:00	2.1	83.3	-27.9	78.1	0.0	0.0	M	100.1
11/26/2020 19:00	2.2	68.7	-28.3	77.6	0.0	0.0	M	100.0
11/26/2020 20:00	2.5	76.9	-28.6	77.4	0.0	0.0	M	100.0
11/26/2020 21:00	2.6	82.5	-28.9	77.1	0.0	0.0	M	100.0
11/26/2020 22:00	2.2	74.2	-28.6	77.4	0.0	0.0	M	100.0
11/26/2020 23:00	2.3	75.0	-28.5	77.5	0.0	0.0	M	100.0
11/27/2020 0:00	2.4	88.1	-28.6	77.4	0.0	0.0	M	100.0
11/27/2020 1:00	2.2	91.0	-28.6	77.5	0.0	0.0	M	99.9
11/27/2020 2:00	2.3	102.2	-28.3	77.3	0.0	0.0	M	100.0
11/27/2020 3:00	2.1	84.6	-30.0	75.8	0.0	0.0	M	100.0
11/27/2020 4:00	1.5	94.0	-30.2	75.8	0.0	0.0	M	100.0
11/27/2020 5:00	1.3	90.5	-29.9	75.8	0.0	0.0	M	100.0
11/27/2020 6:00	0.9	77.7	-30.2	75.6	0.0	0.0	M	100.0
11/27/2020 7:00	1.1	80.8	-30.5	75.3	0.0	0.0	M	100.0
11/27/2020 8:00	1.1	115.9	-29.9	76.1	0.0	0.0	M	100.1
11/27/2020 9:00	0.9	112.9	-30.4	75.1	0.0	0.0	M	100.1
11/27/2020 10:00	0.4	101.5	-31.3	74.5	0.2	0.0	M	100.2
11/27/2020 11:00	0.5	67.2	-31.7	74.2	2.9	0.0	M	100.2
11/27/2020 12:00	0.3	62.2	-31.1	74.7	5.8	0.0	M	100.2
11/27/2020 13:00	0.2	73.3	-31.4	74.0	5.2	0.0	M	100.3
11/27/2020 14:00	0.3	88.2	-32.3	73.3	2.8	0.0	M	100.3
11/27/2020 15:00	0.1	95.9	-32.6	73.0	0.3	0.0	M	100.3
11/27/2020 16:00	0.2	92.1	-32.0	73.8	0.0	0.0	M	100.4
11/27/2020 17:00	0.1	88.6	-31.7	73.8	0.0	0.0	M	100.4
11/27/2020 18:00	0.2	80.8	-31.3	74.4	0.0	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/27/2020 19:00	0.2	93.8	-30.8	74.7	0.0	0.0	M	100.4
11/27/2020 20:00	0.1	82.2	-31.1	74.4	0.0	0.0	M	100.4
11/27/2020 21:00	0.1	85.1	-31.3	74.2	0.0	0.0	M	100.4
11/27/2020 22:00	C	C	-31.1	74.3	0.0	0.0	M	100.4
11/27/2020 23:00	C	C	-31.4	74.0	0.0	0.0	M	100.4
11/28/2020 0:00	C	C	-32.1	73.4	0.0	0.0	M	100.5
11/28/2020 1:00	0.1	103.9	-32.3	73.3	0.0	0.0	M	100.5
11/28/2020 2:00	M	M	-32.1	73.4	0.0	0.0	M	100.5
11/28/2020 3:00	0.1	120.3	-31.3	74.4	0.0	0.0	M	100.5
11/28/2020 4:00	C	C	-30.9	74.4	0.0	0.0	M	100.5
11/28/2020 5:00	C	C	-31.5	73.8	0.0	0.0	M	100.5
11/28/2020 6:00	M	M	-32.3	73.0	0.0	0.0	M	100.5
11/28/2020 7:00	M	M	-32.7	72.8	0.0	0.0	M	100.6
11/28/2020 8:00	C	C	-32.6	73.0	0.0	0.0	M	100.5
11/28/2020 9:00	M	M	-32.0	73.5	0.0	0.0	M	100.5
11/28/2020 10:00	C	C	-30.9	74.8	0.3	0.0	M	100.5
11/28/2020 11:00	M	M	-29.8	75.9	2.1	0.0	M	100.6
11/28/2020 12:00	M	M	-28.5	77.0	4.0	0.0	M	100.5
11/28/2020 13:00	0.1	100.9	-27.4	78.0	3.6	0.0	M	100.5
11/28/2020 14:00	0.3	113.0	-26.2	79.2	1.5	0.0	M	100.5
11/28/2020 15:00	0.3	100.6	-25.8	79.7	0.1	0.0	M	100.5
11/28/2020 16:00	0.6	144.0	-26.7	78.6	0.0	0.0	M	100.5
11/28/2020 17:00	0.5	133.8	-27.3	78.2	0.0	0.0	M	100.4
11/28/2020 18:00	0.3	123.8	-27.9	77.7	0.0	0.0	M	100.4
11/28/2020 19:00	0.2	111.7	-27.9	77.5	0.0	0.0	M	100.4
11/28/2020 20:00	0.0	118.2	-29.1	76.2	0.0	0.0	M	100.3
11/28/2020 21:00	0.0	102.9	-29.6	75.9	0.0	0.0	M	100.3
11/28/2020 22:00	M	M	-30.0	75.5	0.0	0.0	M	100.3
11/28/2020 23:00	0.0	120.5	-30.2	75.3	0.0	0.0	M	100.2
11/29/2020 0:00	M	M	-30.2	75.4	0.0	0.0	M	100.2
11/29/2020 1:00	0.1	123.7	-29.0	76.7	0.0	0.0	M	100.1
11/29/2020 2:00	0.1	134.3	-27.9	77.9	0.0	0.0	M	100.0
11/29/2020 3:00	0.1	139.6	-25.7	80.0	0.0	0.0	M	100.0
11/29/2020 4:00	C	C	-26.0	79.3	0.0	0.0	M	99.9
11/29/2020 5:00	M	M	-25.1	80.7	0.0	0.0	M	99.8
11/29/2020 6:00	M	M	-22.4	83.2	0.0	0.0	M	99.7
11/29/2020 7:00	M	M	-19.8	85.6	0.0	0.0	M	99.6
11/29/2020 8:00	C	C	-17.4	87.5	0.0	0.0	M	99.5
11/29/2020 9:00	0.2	112.1	-16.8	88.1	0.0	0.0	M	99.4
11/29/2020 10:00	0.3	128.5	-15.6	89.3	0.0	0.0	M	99.3
11/29/2020 11:00	0.5	127.8	-15.2	89.1	1.5	0.0	M	99.2
11/29/2020 12:00	0.3	131.3	-17.9	87.1	3.5	0.0	M	99.1
11/29/2020 13:00	0.6	142.0	-19.2	86.1	2.3	0.0	M	99.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
11/29/2020 14:00	0.4	137.0	-19.6	85.8	1.1	0.0	M	99.0
11/29/2020 15:00	0.2	129.0	-20.5	84.9	0.0	0.0	M	98.9
11/29/2020 16:00	0.2	117.9	-20.8	84.6	0.0	0.0	M	98.9
11/29/2020 17:00	C	C	-22.1	83.3	0.0	0.0	M	98.9
11/29/2020 18:00	M	M	-22.6	83.1	0.0	0.0	M	98.9
11/29/2020 19:00	0.2	39.6	-22.3	83.5	0.0	0.0	M	98.8
11/29/2020 20:00	M	M	-21.7	83.9	0.0	0.0	M	98.9
11/29/2020 21:00	M	M	-22.4	82.8	0.0	0.0	M	98.9
11/29/2020 22:00	M	M	-23.6	81.9	0.0	0.0	M	99.0
11/29/2020 23:00	0.1	273.6	-23.8	82.2	0.0	0.0	M	99.0
11/30/2020 0:00	0.5	284.6	-24.5	81.4	0.0	0.0	M	99.2
11/30/2020 1:00	0.6	282.6	-25.2	81.0	0.0	0.0	M	99.2
11/30/2020 2:00	0.9	290.7	-24.6	81.6	0.0	0.0	M	99.3
11/30/2020 3:00	1.1	289.6	-23.4	82.8	0.0	0.0	M	99.4
11/30/2020 4:00	0.9	284.0	-21.7	84.3	0.0	0.0	M	99.4
11/30/2020 5:00	0.6	286.6	-20.0	85.7	0.0	0.0	M	99.5
11/30/2020 6:00	0.8	288.1	-19.3	86.0	0.0	0.0	M	99.6
11/30/2020 7:00	1.1	294.5	-19.8	85.6	0.0	0.0	M	99.5
11/30/2020 8:00	1.4	297.3	-20.6	84.9	0.0	0.0	M	99.6
11/30/2020 9:00	0.8	297.9	-22.0	83.6	0.0	0.0	M	99.7
11/30/2020 10:00	0.9	293.8	-24.0	81.8	0.1	0.0	M	99.7
11/30/2020 11:00	0.5	303.2	-24.3	81.7	2.0	0.0	M	99.8
11/30/2020 12:00	0.5	338.0	-23.8	81.9	4.1	0.0	M	99.8
11/30/2020 13:00	0.5	257.0	-25.3	80.5	3.3	0.0	M	99.9
11/30/2020 14:00	0.3	259.9	-26.5	79.5	1.1	0.0	M	100.0
11/30/2020 15:00	0.1	280.1	-26.0	79.6	0.0	0.0	M	100.0
11/30/2020 16:00	0.2	37.8	-26.8	79.2	0.0	0.0	M	100.1
11/30/2020 17:00	0.1	38.8	-25.7	80.3	0.0	0.0	M	100.1
11/30/2020 18:00	0.0	64.8	-24.7	81.1	0.0	0.0	M	100.2
11/30/2020 19:00	0.0	71.6	-23.4	82.2	0.0	0.0	M	100.3
11/30/2020 20:00	0.3	44.6	-22.9	82.6	0.0	0.0	M	100.2
11/30/2020 21:00	0.2	56.0	-22.5	83.0	0.0	0.0	M	100.3
11/30/2020 22:00	0.2	71.4	-21.9	83.5	0.0	0.0	M	100.4
11/30/2020 23:00	0.2	81.0	-21.4	84.0	0.0	0.0	M	100.4
12/1/2020 0:00	0.3	149.2	-20.3	85.2	0.0	0.0	M	100.5
12/1/2020 1:00	0.1	69.2	-19.6	85.5	0.0	0.0	M	100.6
12/1/2020 2:00	0.3	31.9	-20.1	85.2	0.0	0.0	M	100.6
12/1/2020 3:00	0.4	29.0	-20.1	85.3	0.0	0.0	M	100.6
12/1/2020 4:00	0.4	35.4	-20.2	85.2	0.0	0.0	M	100.7
12/1/2020 5:00	0.1	24.8	-20.0	85.3	0.0	0.0	M	100.7
12/1/2020 6:00	0.3	76.1	-19.6	85.8	0.0	0.0	M	100.7
12/1/2020 7:00	0.6	130.3	-18.3	87.1	0.0	0.0	M	100.6
12/1/2020 8:00	0.9	141.4	-17.4	87.5	0.0	0.0	M	100.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/1/2020 9:00	1.0	164.6	-17.9	87.3	0.0	0.0	M	100.7
12/1/2020 10:00	1.1	145.4	-18.1	87.1	0.0	0.0	M	100.6
12/1/2020 11:00	1.0	137.1	-18.6	86.5	1.6	0.0	M	100.6
12/1/2020 12:00	0.8	152.0	-19.4	86.0	2.7	0.0	M	100.6
12/1/2020 13:00	0.5	124.7	-19.6	85.7	2.3	0.0	M	100.6
12/1/2020 14:00	0.4	121.5	-22.1	83.2	0.9	0.0	M	100.5
12/1/2020 15:00	0.4	126.8	-23.1	82.6	0.0	0.0	M	100.5
12/1/2020 16:00	0.3	117.1	-22.9	83.2	0.0	0.0	M	100.4
12/1/2020 17:00	0.3	102.1	-22.6	83.2	0.0	0.0	M	100.3
12/1/2020 18:00	0.2	119.8	-21.7	84.1	0.0	0.0	M	100.3
12/1/2020 19:00	0.2	124.9	-20.5	84.9	0.0	0.0	M	100.2
12/1/2020 20:00	0.1	97.2	-20.2	85.3	0.0	0.0	M	100.1
12/1/2020 21:00	0.1	96.6	-19.3	86.2	0.0	0.0	M	100.1
12/1/2020 22:00	0.2	80.8	-19.0	86.3	0.0	0.0	M	100.0
12/1/2020 23:00	0.4	69.2	-17.2	88.3	0.0	0.0	M	99.9
12/2/2020 0:00	0.3	73.2	-15.0	89.8	0.0	0.0	M	99.9
12/2/2020 1:00	0.5	78.1	-13.3	91.2	0.0	0.0	M	99.8
12/2/2020 2:00	0.6	92.1	-11.7	92.5	0.0	0.0	M	99.8
12/2/2020 3:00	0.8	109.2	-10.7	93.0	0.0	0.0	M	99.8
12/2/2020 4:00	0.4	69.0	-10.5	93.0	0.0	0.0	M	99.8
12/2/2020 5:00	0.2	42.1	-10.4	93.0	0.0	0.0	M	99.9
12/2/2020 6:00	0.7	13.5	-10.7	92.9	0.0	0.0	M	99.9
12/2/2020 7:00	1.0	12.6	-11.8	92.3	0.0	0.0	M	100.0
12/2/2020 8:00	0.4	1.2	-12.5	91.8	0.0	0.0	M	100.2
12/2/2020 9:00	0.6	352.8	-12.1	92.1	0.0	0.0	M	100.3
12/2/2020 10:00	1.1	8.1	-12.2	91.9	0.0	0.0	M	100.3
12/2/2020 11:00	0.9	17.1	-12.7	91.7	1.2	0.0	M	100.4
12/2/2020 12:00	1.2	21.1	-13.2	91.3	2.6	0.0	M	100.6
12/2/2020 13:00	1.3	18.7	-13.6	91.0	2.5	0.0	M	100.8
12/2/2020 14:00	2.1	22.8	-14.2	90.5	0.9	0.0	M	100.9
12/2/2020 15:00	2.5	29.0	-15.0	89.9	0.0	0.0	M	101.0
12/2/2020 16:00	1.7	33.5	-15.4	89.6	0.0	0.0	M	101.2
12/2/2020 17:00	2.1	39.6	-15.3	89.7	0.0	0.0	M	101.2
12/2/2020 18:00	2.5	52.9	-15.3	89.7	0.0	0.0	M	101.3
12/2/2020 19:00	1.4	76.0	-15.7	89.3	0.0	0.0	M	101.4
12/2/2020 20:00	1.3	51.9	-15.7	89.3	0.0	0.0	M	101.5
12/2/2020 21:00	2.1	30.7	-15.8	89.0	0.0	0.0	M	101.4
12/2/2020 22:00	3.7	52.5	-16.5	88.9	0.0	0.0	M	101.4
12/2/2020 23:00	3.4	76.1	-15.6	89.5	0.0	0.0	M	101.4
12/3/2020 0:00	3.5	98.9	-14.9	89.9	0.0	0.0	M	101.4
12/3/2020 1:00	4.4	109.6	-15.1	89.8	0.0	0.0	M	101.4
12/3/2020 2:00	3.5	124.0	-15.0	90.1	0.0	0.0	M	101.5
12/3/2020 3:00	3.8	116.5	-13.5	91.2	0.0	0.0	M	101.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/3/2020 4:00	4.8	106.2	-12.9	91.6	0.0	0.0	M	101.4
12/3/2020 5:00	6.1	110.5	-12.1	92.2	0.0	0.0	M	101.3
12/3/2020 6:00	7.7	105.9	-11.4	92.7	0.0	0.0	M	101.2
12/3/2020 7:00	7.6	113.5	-11.1	92.8	0.0	0.0	M	101.2
12/3/2020 8:00	9.0	108.2	-10.2	93.5	0.0	0.0	M	101.1
12/3/2020 9:00	11.8	109.3	-9.9	94.0	0.0	0.0	M	101.0
12/3/2020 10:00	14.4	112.6	-9.2	94.5	0.0	0.0	M	100.9
12/3/2020 11:00	14.7	118.7	-8.6	94.8	1.1	0.0	M	100.8
12/3/2020 12:00	14.0	119.8	-8.5	94.7	2.9	0.0	M	100.7
12/3/2020 13:00	13.3	121.5	-8.3	94.6	2.8	0.0	M	100.5
12/3/2020 14:00	15.9	118.0	-8.3	94.5	1.3	0.0	M	100.3
12/3/2020 15:00	16.6	122.0	-8.1	94.6	0.0	0.0	M	100.2
12/3/2020 16:00	17.3	119.9	-8.0	94.6	0.0	0.0	M	100.0
12/3/2020 17:00	17.9	124.1	-8.2	94.5	0.0	0.0	M	99.8
12/3/2020 18:00	17.0	123.3	-8.0	94.3	0.0	0.0	M	99.7
12/3/2020 19:00	15.0	130.1	-7.8	94.3	0.0	0.0	M	99.6
12/3/2020 20:00	15.1	129.4	-7.7	94.3	0.0	0.0	M	99.2
12/3/2020 21:00	15.7	138.9	-7.5	94.7	0.0	0.0	M	99.2
12/3/2020 22:00	12.5	141.9	-7.7	93.8	0.0	0.0	M	99.1
12/3/2020 23:00	10.6	151.7	-8.0	92.9	0.0	0.0	M	99.0
12/4/2020 0:00	8.4	159.8	-7.7	91.3	0.0	0.0	M	98.9
12/4/2020 1:00	7.2	165.8	-6.7	91.8	0.0	0.0	M	98.9
12/4/2020 2:00	7.7	187.0	-5.1	93.1	0.0	0.0	M	98.8
12/4/2020 3:00	10.7	230.2	-2.2	97.6	0.0	0.0	M	98.8
12/4/2020 4:00	15.7	263.9	-1.4	98.2	0.0	0.0	M	99.0
12/4/2020 5:00	17.3	269.9	-3.1	97.3	0.0	0.0	M	99.1
12/4/2020 6:00	17.4	277.6	-4.5	96.1	0.0	0.0	M	99.3
12/4/2020 7:00	15.0	278.1	-5.2	94.7	0.0	0.0	M	99.5
12/4/2020 8:00	14.8	277.8	-5.8	93.5	0.0	0.0	M	99.7
12/4/2020 9:00	13.3	270.6	-6.1	92.2	0.0	0.0	M	99.8
12/4/2020 10:00	14.3	271.3	-6.6	91.0	0.0	0.0	M	100.0
12/4/2020 11:00	13.5	271.0	-7.1	90.1	1.7	0.0	M	100.1
12/4/2020 12:00	12.3	283.3	-7.4	90.2	3.6	0.0	M	100.1
12/4/2020 13:00	11.8	282.1	-7.5	90.1	3.2	0.0	M	100.3
12/4/2020 14:00	12.9	280.8	-7.7	88.3	1.4	0.0	M	100.3
12/4/2020 15:00	10.5	281.4	-8.3	86.3	0.0	0.0	M	100.4
12/4/2020 16:00	11.8	284.4	-9.1	85.0	0.0	0.0	M	100.5
12/4/2020 17:00	10.0	279.1	-9.5	84.6	0.0	0.0	M	100.6
12/4/2020 18:00	6.5	274.5	-10.0	85.2	0.0	0.0	M	100.7
12/4/2020 19:00	7.5	261.5	-10.0	84.8	0.0	0.0	M	100.7
12/4/2020 20:00	6.0	271.7	-10.3	85.3	0.0	0.0	M	100.7
12/4/2020 21:00	7.7	265.5	-10.7	86.1	0.0	0.0	M	100.8
12/4/2020 22:00	6.8	261.4	-10.4	84.9	0.0	0.0	M	100.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/4/2020 23:00	6.3	260.4	-10.2	84.5	0.0	0.0	M	100.9
12/5/2020 0:00	6.4	258.2	-10.2	85.3	0.0	0.0	M	100.9
12/5/2020 1:00	6.0	262.0	-10.5	86.0	0.0	0.0	M	100.9
12/5/2020 2:00	5.9	263.4	-11.0	87.5	0.0	0.0	M	100.9
12/5/2020 3:00	3.9	269.1	-10.8	88.3	0.0	0.0	M	101.0
12/5/2020 4:00	2.4	297.9	-11.1	88.5	0.0	0.0	M	100.9
12/5/2020 5:00	1.0	34.9	-12.2	89.4	0.0	0.0	M	100.9
12/5/2020 6:00	0.6	134.6	-12.5	90.5	0.0	0.0	M	100.9
12/5/2020 7:00	1.9	141.1	-12.1	92.1	0.0	0.0	M	101.0
12/5/2020 8:00	1.5	127.7	-11.7	92.7	0.0	0.0	M	100.9
12/5/2020 9:00	2.6	130.4	-11.6	92.2	0.0	0.0	M	100.9
12/5/2020 10:00	3.0	135.2	-10.7	92.1	0.0	0.0	M	100.9
12/5/2020 11:00	3.5	133.1	-10.3	92.3	1.2	0.0	M	100.8
12/5/2020 12:00	6.3	110.7	-9.7	91.7	2.9	0.0	M	100.7
12/5/2020 13:00	5.3	93.2	-10.3	87.7	2.7	0.0	M	100.7
12/5/2020 14:00	4.7	109.1	-9.9	91.0	1.3	0.0	M	100.6
12/5/2020 15:00	7.2	107.2	-9.7	93.4	0.0	0.0	M	100.5
12/5/2020 16:00	7.3	114.0	-9.3	93.9	0.0	0.0	M	100.4
12/5/2020 17:00	8.0	118.6	-9.2	93.2	0.0	0.0	M	100.2
12/5/2020 18:00	9.5	130.9	-9.1	92.7	0.0	0.0	M	100.1
12/5/2020 19:00	7.3	130.0	-8.2	92.9	0.0	0.0	M	100.0
12/5/2020 20:00	7.4	145.9	-7.8	92.5	0.0	0.0	M	99.9
12/5/2020 21:00	7.3	159.6	-7.5	91.8	0.0	0.0	M	99.7
12/5/2020 22:00	6.7	180.5	-7.2	90.2	0.0	0.0	M	99.7
12/5/2020 23:00	5.8	223.3	-6.1	91.7	0.0	0.0	M	99.7
12/6/2020 0:00	10.6	251.3	-6.6	94.4	0.0	0.0	M	99.6
12/6/2020 1:00	11.9	257.6	-6.9	94.9	0.0	0.0	M	99.7
12/6/2020 2:00	9.3	275.4	-7.5	94.3	0.0	0.0	M	99.8
12/6/2020 3:00	9.9	295.5	-8.6	91.2	0.0	0.0	M	99.8
12/6/2020 4:00	7.9	307.8	-10.3	88.2	0.0	0.0	M	99.9
12/6/2020 5:00	7.4	308.1	-11.8	88.5	0.0	0.0	M	100.0
12/6/2020 6:00	7.4	298.6	-12.9	90.0	0.0	0.0	M	100.0
12/6/2020 7:00	7.7	299.5	-13.6	90.3	0.0	0.0	M	100.0
12/6/2020 8:00	7.2	296.1	-14.4	90.4	0.0	0.0	M	100.0
12/6/2020 9:00	5.3	300.9	-15.2	89.2	0.0	0.0	M	100.1
12/6/2020 10:00	4.9	300.1	-16.4	89.0	0.0	0.0	M	100.3
12/6/2020 11:00	3.8	297.0	-16.4	88.6	1.1	0.0	M	100.3
12/6/2020 12:00	4.5	292.9	-17.0	88.8	3.3	0.0	M	100.3
12/6/2020 13:00	5.5	295.2	-17.1	88.8	3.2	0.0	M	100.3
12/6/2020 14:00	5.3	292.2	-17.7	88.3	1.6	0.0	M	100.4
12/6/2020 15:00	3.7	286.7	-18.0	88.0	0.1	0.0	M	100.4
12/6/2020 16:00	2.2	238.9	-18.2	87.7	0.0	0.0	M	100.4
12/6/2020 17:00	2.8	275.0	-18.9	87.1	0.0	0.0	M	100.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/6/2020 18:00	2.6	283.4	-19.1	86.8	0.0	0.0	M	100.5
12/6/2020 19:00	2.6	287.7	-19.1	86.9	0.0	0.0	M	100.6
12/6/2020 20:00	2.8	288.1	-19.5	86.5	0.0	0.0	M	100.6
12/6/2020 21:00	4.0	295.9	-18.5	87.5	0.0	0.0	M	100.5
12/6/2020 22:00	1.2	210.3	-19.6	86.0	0.0	0.0	M	100.5
12/6/2020 23:00	0.8	154.2	-20.4	85.6	0.0	0.0	M	100.5
12/7/2020 0:00	0.5	144.1	-20.4	85.5	0.0	0.0	M	100.6
12/7/2020 1:00	1.3	112.4	-19.3	86.8	0.0	0.0	M	100.4
12/7/2020 2:00	1.6	122.7	-18.3	87.5	0.0	0.0	M	100.4
12/7/2020 3:00	1.7	124.5	-17.2	88.3	0.0	0.0	M	100.3
12/7/2020 4:00	1.8	119.8	-16.9	88.7	0.0	0.0	M	100.3
12/7/2020 5:00	2.7	119.4	-15.9	89.5	0.0	0.0	M	100.1
12/7/2020 6:00	3.2	127.8	-15.6	89.7	0.0	0.0	M	100.0
12/7/2020 7:00	3.6	125.3	-15.1	90.1	0.0	0.0	M	99.9
12/7/2020 8:00	4.2	134.7	-15.3	90.1	0.0	0.0	M	99.9
12/7/2020 9:00	4.4	125.6	-14.1	90.9	0.0	0.0	M	99.8
12/7/2020 10:00	6.1	108.7	-14.1	90.9	0.0	0.0	M	99.7
12/7/2020 11:00	6.8	101.3	-14.3	90.7	0.6	0.0	M	99.6
12/7/2020 12:00	6.7	91.2	-14.9	90.3	2.1	0.0	M	99.6
12/7/2020 13:00	5.6	97.2	-14.6	90.6	1.9	0.0	M	99.5
12/7/2020 14:00	6.6	99.2	-14.3	90.8	0.6	0.0	M	99.5
12/7/2020 15:00	7.4	89.7	-14.7	90.4	0.0	0.0	M	99.4
12/7/2020 16:00	7.7	91.7	-14.6	90.6	0.0	0.0	M	99.4
12/7/2020 17:00	8.0	85.4	-14.8	90.2	0.0	0.0	M	99.4
12/7/2020 18:00	8.7	83.0	-14.9	90.0	0.0	0.0	M	99.4
12/7/2020 19:00	8.1	82.4	-15.1	89.4	0.0	0.0	M	99.4
12/7/2020 20:00	8.4	82.3	-15.2	88.9	0.0	0.0	M	99.4
12/7/2020 21:00	8.3	86.4	-14.9	88.8	0.0	0.0	M	99.3
12/7/2020 22:00	9.5	85.6	-14.9	88.4	0.0	0.0	M	99.3
12/7/2020 23:00	9.5	87.1	-14.7	88.6	0.0	0.0	M	99.4
12/8/2020 0:00	8.5	86.0	-14.7	87.8	0.0	0.0	M	99.4
12/8/2020 1:00	7.0	87.5	-14.8	87.5	0.0	0.0	M	99.4
12/8/2020 2:00	6.1	80.4	-15.0	86.5	0.0	0.0	M	99.5
12/8/2020 3:00	6.1	71.8	-14.9	87.3	0.0	0.0	M	99.5
12/8/2020 4:00	4.5	74.8	-15.0	87.6	0.0	0.0	M	99.5
12/8/2020 5:00	2.3	74.2	-15.0	87.9	0.0	0.0	M	99.6
12/8/2020 6:00	4.2	61.2	-14.4	88.0	0.0	0.0	M	99.6
12/8/2020 7:00	4.7	65.8	-14.2	88.1	0.0	0.0	M	99.6
12/8/2020 8:00	4.9	77.1	-14.2	88.0	0.0	0.0	M	99.6
12/8/2020 9:00	4.6	75.5	-14.1	88.2	0.0	0.0	M	99.6
12/8/2020 10:00	4.0	70.9	-14.2	87.6	0.0	0.0	M	99.7
12/8/2020 11:00	4.8	66.5	-14.5	87.0	0.9	0.0	M	99.7
12/8/2020 12:00	4.7	60.4	-14.9	86.8	2.5	0.0	M	99.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/8/2020 13:00	4.7	52.9	-15.2	87.2	2.6	0.0	M	99.7
12/8/2020 14:00	3.5	48.2	-15.3	87.3	1.2	0.0	M	99.8
12/8/2020 15:00	2.1	40.2	-15.3	87.8	0.0	0.0	M	99.9
12/8/2020 16:00	2.6	22.4	-15.8	87.6	0.0	0.0	M	100.0
12/8/2020 17:00	2.0	21.1	-16.5	87.0	0.0	0.0	M	100.0
12/8/2020 18:00	1.9	15.3	-16.9	86.8	0.0	0.0	M	100.1
12/8/2020 19:00	1.9	26.9	-18.0	87.0	0.0	0.0	M	100.1
12/8/2020 20:00	0.7	53.3	-18.5	87.8	0.0	0.0	M	100.2
12/8/2020 21:00	0.6	283.2	-19.3	87.1	0.0	0.0	M	100.2
12/8/2020 22:00	0.3	50.8	-20.7	85.5	0.0	0.0	M	100.3
12/8/2020 23:00	0.3	79.3	-22.3	83.9	0.0	0.0	M	100.3
12/9/2020 0:00	0.2	127.9	-22.4	83.9	0.0	0.0	M	100.4
12/9/2020 1:00	0.9	260.2	-22.3	84.3	0.0	0.0	M	100.4
12/9/2020 2:00	3.1	286.3	-21.2	85.0	0.0	0.0	M	100.4
12/9/2020 3:00	2.5	277.3	-21.8	84.3	0.0	0.0	M	100.5
12/9/2020 4:00	5.0	283.2	-21.1	85.2	0.0	0.0	M	100.5
12/9/2020 5:00	3.2	266.3	-20.7	85.3	0.0	0.0	M	100.5
12/9/2020 6:00	2.8	251.8	-20.4	85.6	0.0	0.0	M	100.6
12/9/2020 7:00	6.8	269.2	-19.2	86.7	0.0	0.0	M	100.5
12/9/2020 8:00	6.3	274.4	-18.7	87.2	0.0	0.0	M	100.6
12/9/2020 9:00	6.1	272.7	-17.8	87.9	0.0	0.0	M	100.6
12/9/2020 10:00	6.6	269.6	-17.5	88.1	0.0	0.0	M	100.6
12/9/2020 11:00	7.2	267.0	-18.3	87.4	1.3	0.0	M	100.6
12/9/2020 12:00	7.6	268.6	-18.0	87.6	3.4	0.0	M	100.7
12/9/2020 13:00	7.8	269.3	-17.9	87.6	3.9	0.0	M	100.7
12/9/2020 14:00	7.0	280.1	-18.0	87.4	1.4	0.0	M	100.8
12/9/2020 15:00	5.2	275.6	-18.0	87.5	0.0	0.0	M	100.8
12/9/2020 16:00	4.7	281.9	-17.6	87.8	0.0	0.0	M	100.9
12/9/2020 17:00	2.7	298.9	-17.7	87.7	0.0	0.0	M	100.9
12/9/2020 18:00	4.6	357.6	-17.5	86.9	0.0	0.0	M	100.9
12/9/2020 19:00	7.0	16.5	-18.0	85.3	0.0	0.0	M	101.0
12/9/2020 20:00	7.1	10.7	-18.9	84.0	0.0	0.0	M	101.1
12/9/2020 21:00	6.7	9.9	-19.9	82.6	0.0	0.0	M	101.2
12/9/2020 22:00	6.1	1.6	-20.6	81.2	0.0	0.0	M	101.3
12/9/2020 23:00	6.5	353.7	-22.4	78.9	0.0	0.0	M	101.4
12/10/2020 0:00	5.5	357.0	-23.8	76.2	0.0	0.0	M	101.5
12/10/2020 1:00	3.9	312.9	-24.5	76.8	0.0	0.0	M	101.6
12/10/2020 2:00	4.7	295.6	-25.6	78.3	0.0	0.0	M	101.7
12/10/2020 3:00	5.7	289.7	-27.2	78.5	0.0	0.0	M	101.8
12/10/2020 4:00	4.8	288.5	-27.7	78.4	0.0	0.0	M	101.9
12/10/2020 5:00	4.0	270.3	-27.9	78.0	0.0	0.0	M	101.9
12/10/2020 6:00	5.3	283.5	-27.6	79.3	0.0	0.0	M	102.0
12/10/2020 7:00	4.6	284.8	-28.2	78.4	0.0	0.0	M	102.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/10/2020 8:00	6.6	271.0	-28.3	78.2	0.0	0.0	M	102.0
12/10/2020 9:00	4.7	282.1	-28.7	77.6	0.0	0.0	M	102.1
12/10/2020 10:00	5.6	273.9	-28.9	77.4	0.0	0.0	M	102.1
12/10/2020 11:00	4.5	272.3	-29.4	76.9	1.8	0.0	M	102.2
12/10/2020 12:00	5.8	271.8	-28.9	77.1	4.3	0.0	M	102.2
12/10/2020 13:00	8.0	274.4	-28.3	77.4	4.5	0.0	M	102.1
12/10/2020 14:00	9.7	277.1	-28.2	77.9	2.0	0.0	M	102.1
12/10/2020 15:00	10.8	276.7	-27.7	78.5	0.1	0.0	M	102.1
12/10/2020 16:00	10.6	270.5	-27.7	77.8	0.0	0.0	M	102.2
12/10/2020 17:00	10.4	277.2	-28.5	77.3	0.0	0.0	M	102.2
12/10/2020 18:00	10.2	276.1	-29.1	77.0	0.0	0.0	M	102.2
12/10/2020 19:00	8.1	286.1	-29.4	76.7	0.0	0.0	M	102.3
12/10/2020 20:00	6.7	285.7	-29.9	76.3	0.0	0.0	M	102.3
12/10/2020 21:00	7.9	275.2	-29.9	76.2	0.0	0.0	M	102.3
12/10/2020 22:00	8.9	272.3	-30.1	76.0	0.0	0.0	M	102.3
12/10/2020 23:00	8.1	277.7	-29.8	76.4	0.0	0.0	M	102.3
12/11/2020 0:00	5.9	283.7	-30.0	76.3	0.0	0.0	M	102.3
12/11/2020 1:00	6.9	279.1	-30.1	76.1	0.0	0.0	M	102.3
12/11/2020 2:00	6.7	275.2	-30.4	75.8	0.0	0.0	M	102.3
12/11/2020 3:00	8.0	268.8	-30.4	75.3	0.0	0.0	M	102.3
12/11/2020 4:00	10.1	274.7	-30.2	75.3	0.0	0.0	M	102.3
12/11/2020 5:00	9.5	275.0	-30.1	75.4	0.0	0.0	M	102.3
12/11/2020 6:00	11.1	275.4	-29.4	75.6	0.0	0.0	M	102.2
12/11/2020 7:00	12.0	275.8	-28.9	76.1	0.0	0.0	M	102.2
12/11/2020 8:00	11.7	271.1	-28.5	75.9	0.0	0.0	M	102.1
12/11/2020 9:00	11.0	266.1	-28.6	76.2	0.0	0.0	M	102.0
12/11/2020 10:00	12.7	258.0	-28.3	77.1	0.0	0.0	M	102.0
12/11/2020 11:00	12.7	260.2	-27.7	77.7	1.4	0.0	M	101.9
12/11/2020 12:00	10.7	259.6	-27.0	78.4	3.5	0.0	M	101.9
12/11/2020 13:00	11.4	264.7	-26.6	78.5	3.6	0.0	M	101.9
12/11/2020 14:00	11.0	265.1	-26.4	78.4	1.5	0.0	M	101.9
12/11/2020 15:00	12.2	265.9	-26.3	78.4	0.0	0.0	M	101.9
12/11/2020 16:00	10.8	268.9	-26.0	78.5	0.0	0.0	M	101.8
12/11/2020 17:00	10.6	276.9	-25.9	79.0	0.0	0.0	M	101.8
12/11/2020 18:00	9.7	273.2	-26.0	79.2	0.0	0.0	M	101.7
12/11/2020 19:00	10.3	268.2	-26.1	78.6	0.0	0.0	M	101.6
12/11/2020 20:00	11.0	272.4	-26.5	78.3	0.0	0.0	M	101.5
12/11/2020 21:00	12.4	270.5	-26.4	78.3	0.0	0.0	M	101.5
12/11/2020 22:00	14.2	266.0	-25.7	78.3	0.0	0.0	M	101.4
12/11/2020 23:00	14.1	265.0	-25.3	78.9	0.0	0.0	M	101.3
12/12/2020 0:00	14.9	266.5	-24.4	79.8	0.0	0.0	M	101.1
12/12/2020 1:00	14.6	265.5	-23.3	81.0	0.0	0.0	M	101.1
12/12/2020 2:00	13.3	275.0	-21.8	83.2	0.0	0.0	M	101.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/12/2020 3:00	14.8	281.9	-20.6	84.2	0.0	0.0	M	101.0
12/12/2020 4:00	14.4	281.5	-20.3	84.5	0.0	0.0	M	100.9
12/12/2020 5:00	13.5	284.9	-19.8	85.6	0.0	0.0	M	101.0
12/12/2020 6:00	13.3	291.5	-19.8	85.7	0.0	0.0	M	100.9
12/12/2020 7:00	12.7	289.9	-19.7	85.6	0.0	0.0	M	100.9
12/12/2020 8:00	10.9	306.7	-19.7	84.7	0.0	0.0	M	100.8
12/12/2020 9:00	11.3	300.6	-19.8	83.3	0.0	0.0	M	100.8
12/12/2020 10:00	11.7	297.1	-19.6	84.5	0.0	0.0	M	100.8
12/12/2020 11:00	11.8	296.9	-19.4	84.5	0.8	0.0	M	100.8
12/12/2020 12:00	11.5	289.3	-19.4	85.0	1.9	0.0	M	100.9
12/12/2020 13:00	12.5	295.5	-19.4	85.5	1.8	0.0	M	100.8
12/12/2020 14:00	12.8	296.2	-19.5	85.2	0.6	0.0	M	100.9
12/12/2020 15:00	12.3	294.1	-19.5	85.2	0.0	0.0	M	100.9
12/12/2020 16:00	10.6	298.6	-19.3	85.0	0.0	0.0	M	100.9
12/12/2020 17:00	10.7	295.1	-19.2	85.1	0.0	0.0	M	100.9
12/12/2020 18:00	11.4	298.6	-19.4	85.4	0.0	0.0	M	100.9
12/12/2020 19:00	12.3	297.6	-19.4	85.3	0.0	0.0	M	100.9
12/12/2020 20:00	11.6	297.2	-19.1	85.4	0.0	0.0	M	100.9
12/12/2020 21:00	11.6	299.7	-18.7	85.5	0.0	0.0	M	100.9
12/12/2020 22:00	8.8	307.2	-18.5	85.7	0.0	0.0	M	101.0
12/12/2020 23:00	9.5	313.5	-18.7	84.7	0.0	0.0	M	101.0
12/13/2020 0:00	8.8	306.2	-19.1	84.2	0.0	0.0	M	101.0
12/13/2020 1:00	10.0	299.7	-19.3	84.6	0.0	0.0	M	101.0
12/13/2020 2:00	10.2	300.4	-19.3	84.6	0.0	0.0	M	101.0
12/13/2020 3:00	11.4	298.9	-20.2	84.6	0.0	0.0	M	101.1
12/13/2020 4:00	9.7	307.3	-20.4	83.9	0.0	0.0	M	101.0
12/13/2020 5:00	10.5	307.3	-20.7	83.7	0.0	0.0	M	101.1
12/13/2020 6:00	12.0	316.5	-20.9	82.9	0.0	0.0	M	100.9
12/13/2020 7:00	10.3	312.4	-21.1	82.4	0.0	0.0	M	101.1
12/13/2020 8:00	9.3	313.6	-21.2	82.9	0.0	0.0	M	101.0
12/13/2020 9:00	8.6	311.6	-21.3	82.4	0.0	0.0	M	101.0
12/13/2020 10:00	9.7	316.5	-21.6	81.6	0.0	0.0	M	101.0
12/13/2020 11:00	9.0	316.7	-22.2	80.4	1.0	0.0	M	101.1
12/13/2020 12:00	7.8	304.0	-23.0	80.0	3.1	0.0	M	101.1
12/13/2020 13:00	7.8	309.1	-23.3	79.7	3.2	0.0	M	101.0
12/13/2020 14:00	7.7	308.5	-23.0	79.5	0.8	0.0	M	101.0
12/13/2020 15:00	9.2	297.7	-23.3	80.4	0.0	0.0	M	101.0
12/13/2020 16:00	9.1	297.5	-23.0	81.0	0.0	0.0	M	101.0
12/13/2020 17:00	8.8	292.2	-23.0	81.4	0.0	0.0	M	101.0
12/13/2020 18:00	9.1	286.4	-22.7	81.9	0.0	0.0	M	100.9
12/13/2020 19:00	11.1	283.0	-22.9	81.5	0.0	0.0	M	100.9
12/13/2020 20:00	12.6	282.1	-23.4	81.5	0.0	0.0	M	100.8
12/13/2020 21:00	12.3	281.3	-23.8	81.3	0.0	0.0	M	100.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/13/2020 22:00	13.9	279.1	-23.8	81.6	0.0	0.0	M	100.7
12/13/2020 23:00	13.8	273.8	-23.7	81.8	0.0	0.0	M	100.6
12/14/2020 0:00	15.2	274.0	-23.5	81.8	0.0	0.0	M	100.6
12/14/2020 1:00	14.6	276.2	-23.1	82.4	0.0	0.0	M	100.6
12/14/2020 2:00	13.6	270.3	-22.5	82.9	0.0	0.0	M	100.7
12/14/2020 3:00	11.5	276.6	-21.5	84.1	0.0	0.0	M	100.7
12/14/2020 4:00	10.2	280.0	-21.1	84.4	0.0	0.0	M	100.7
12/14/2020 5:00	9.2	291.0	-21.1	84.1	0.0	0.0	M	100.6
12/14/2020 6:00	9.6	284.7	-21.6	83.7	0.0	0.0	M	100.6
12/14/2020 7:00	9.2	276.9	-22.1	83.4	0.0	0.0	M	100.6
12/14/2020 8:00	9.0	277.1	-22.3	83.0	0.0	0.0	M	100.6
12/14/2020 9:00	10.6	277.8	-22.3	82.5	0.0	0.0	M	100.6
12/14/2020 10:00	10.2	281.9	-22.2	83.2	0.0	0.0	M	100.5
12/14/2020 11:00	10.4	281.6	-21.9	83.8	0.5	0.0	M	100.4
12/14/2020 12:00	10.5	280.1	-21.9	83.8	2.3	0.0	M	100.4
12/14/2020 13:00	10.5	279.0	-21.8	83.6	2.0	0.0	M	100.4
12/14/2020 14:00	9.5	281.8	-21.7	83.8	0.6	0.0	M	100.4
12/14/2020 15:00	8.8	279.9	-21.5	83.8	0.0	0.0	M	100.3
12/14/2020 16:00	9.6	278.8	-21.4	83.8	0.0	0.0	M	100.3
12/14/2020 17:00	8.4	281.9	-21.4	83.8	0.0	0.0	M	100.3
12/14/2020 18:00	7.6	279.5	-21.2	83.8	0.0	0.0	M	100.3
12/14/2020 19:00	7.0	276.8	-20.9	83.9	0.0	0.0	M	100.2
12/14/2020 20:00	6.6	272.1	-20.7	84.0	0.0	0.0	M	100.1
12/14/2020 21:00	5.4	279.5	-20.5	84.1	0.0	0.0	M	100.1
12/14/2020 22:00	4.1	302.9	-20.4	84.2	0.0	0.0	M	100.1
12/14/2020 23:00	3.4	305.3	-20.4	84.4	0.0	0.0	M	100.1
12/15/2020 0:00	3.4	312.3	-20.5	84.5	0.0	0.0	M	100.1
12/15/2020 1:00	4.5	324.0	-20.7	84.2	0.0	0.0	M	100.1
12/15/2020 2:00	4.4	324.6	-21.1	84.2	0.0	0.0	M	100.1
12/15/2020 3:00	4.6	30.7	-23.3	81.7	0.0	0.0	M	100.2
12/15/2020 4:00	3.1	69.8	-25.5	79.9	0.0	0.0	M	100.3
12/15/2020 5:00	6.0	60.6	-26.6	78.2	0.0	0.0	M	100.3
12/15/2020 6:00	4.7	60.0	-28.3	76.9	0.0	0.0	M	100.3
12/15/2020 7:00	4.1	61.3	-30.1	75.3	0.0	0.0	M	100.4
12/15/2020 8:00	4.4	49.9	-31.0	74.2	0.0	0.0	M	100.4
12/15/2020 9:00	3.4	29.3	-31.9	73.7	0.0	0.0	M	100.4
12/15/2020 10:00	2.7	18.1	-32.3	73.5	0.0	0.0	M	100.5
12/15/2020 11:00	2.4	24.8	-32.9	73.2	0.9	0.0	M	100.5
12/15/2020 12:00	1.6	8.4	-32.7	73.2	3.1	0.0	M	100.5
12/15/2020 13:00	2.4	11.8	-33.0	72.9	3.3	0.0	M	100.6
12/15/2020 14:00	3.0	14.9	-33.2	72.2	1.4	0.0	M	100.6
12/15/2020 15:00	3.0	29.6	-33.2	72.6	0.0	0.0	M	100.7
12/15/2020 16:00	2.2	38.2	-33.3	72.4	0.0	0.0	M	100.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/15/2020 17:00	2.5	42.8	-33.5	72.6	0.0	0.0	M	100.8
12/15/2020 18:00	3.1	58.6	-33.6	72.7	0.0	0.0	M	100.8
12/15/2020 19:00	2.5	66.7	-33.8	72.5	0.0	0.0	M	100.9
12/15/2020 20:00	2.3	61.8	-33.9	72.4	0.0	0.0	M	100.9
12/15/2020 21:00	2.3	57.7	-34.2	72.1	0.0	0.0	M	100.9
12/15/2020 22:00	2.4	51.5	-34.2	72.1	0.0	0.0	M	101.0
12/15/2020 23:00	0.4	40.9	-34.2	71.8	0.0	0.0	M	101.0
12/16/2020 0:00	0.6	318.2	-34.2	72.1	0.0	0.0	M	101.1
12/16/2020 1:00	0.5	307.2	-34.1	71.9	0.0	0.0	M	101.2
12/16/2020 2:00	0.4	191.5	-34.7	71.3	0.0	0.0	M	101.2
12/16/2020 3:00	1.2	277.6	-34.8	71.3	0.0	0.0	M	101.2
12/16/2020 4:00	2.0	278.4	-34.7	71.5	0.0	0.0	M	101.2
12/16/2020 5:00	2.4	277.2	-35.2	71.0	0.0	0.0	M	101.2
12/16/2020 6:00	3.9	282.2	-34.4	71.9	0.0	0.0	M	101.3
12/16/2020 7:00	4.7	284.3	-34.5	71.7	0.0	0.0	M	101.3
12/16/2020 8:00	5.7	286.1	-34.6	71.5	0.0	0.0	M	101.2
12/16/2020 9:00	5.7	283.4	-34.6	71.4	0.0	0.0	M	101.3
12/16/2020 10:00	5.9	289.1	-34.8	71.3	0.0	0.0	M	101.3
12/16/2020 11:00	5.8	283.9	-34.7	71.3	1.0	0.0	M	101.3
12/16/2020 12:00	6.9	286.4	-34.3	71.8	3.6	0.0	M	101.3
12/16/2020 13:00	8.4	281.2	-33.5	72.5	3.6	0.0	M	101.3
12/16/2020 14:00	8.3	283.5	-33.5	72.5	1.0	0.0	M	101.4
12/16/2020 15:00	8.3	278.6	-33.2	72.8	0.0	0.0	M	101.3
12/16/2020 16:00	10.6	269.6	-32.9	73.1	0.0	0.0	M	101.3
12/16/2020 17:00	10.8	268.2	-32.9	73.1	0.0	0.0	M	101.3
12/16/2020 18:00	9.9	268.9	-32.7	73.1	0.0	0.0	M	101.3
12/16/2020 19:00	11.6	265.5	-32.8	73.1	0.0	0.0	M	101.2
12/16/2020 20:00	11.2	267.3	-32.8	73.1	0.0	0.0	M	101.2
12/16/2020 21:00	11.7	267.5	-32.7	73.2	0.0	0.0	M	101.1
12/16/2020 22:00	11.9	268.6	-32.7	73.1	0.0	0.0	M	101.2
12/16/2020 23:00	10.7	269.0	-32.8	72.8	0.0	0.0	M	101.2
12/17/2020 0:00	10.8	263.7	-33.1	72.5	0.0	0.0	M	101.1
12/17/2020 1:00	13.1	260.7	-33.3	72.3	0.0	0.0	M	101.0
12/17/2020 2:00	12.7	262.4	-32.9	72.5	0.0	0.0	M	101.1
12/17/2020 3:00	11.2	262.4	-32.5	72.8	0.0	0.0	M	101.1
12/17/2020 4:00	13.0	266.4	-32.5	72.5	0.0	0.0	M	101.0
12/17/2020 5:00	12.7	263.7	-32.7	72.4	0.0	0.0	M	101.0
12/17/2020 6:00	12.0	259.4	-32.5	72.4	0.0	0.0	M	100.9
12/17/2020 7:00	11.3	259.1	-32.3	72.6	0.0	0.0	M	100.9
12/17/2020 8:00	10.8	259.8	-32.0	72.8	0.0	0.0	M	100.9
12/17/2020 9:00	10.5	256.6	-31.7	72.8	0.0	0.0	M	100.9
12/17/2020 10:00	9.3	254.7	-31.1	73.5	0.0	0.0	M	100.8
12/17/2020 11:00	11.5	258.4	-29.9	74.5	0.6	0.0	M	100.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/17/2020 12:00	10.2	258.7	-29.5	74.5	2.6	0.0	M	100.8
12/17/2020 13:00	10.9	262.1	-29.0	74.9	2.9	0.0	M	100.7
12/17/2020 14:00	10.1	256.4	-28.5	75.8	1.0	0.0	M	100.6
12/17/2020 15:00	11.4	252.3	-27.5	76.3	0.0	0.0	M	100.6
12/17/2020 16:00	10.9	255.2	-26.8	75.7	0.0	0.0	M	100.6
12/17/2020 17:00	9.3	252.7	-26.2	77.8	0.0	0.0	M	100.6
12/17/2020 18:00	10.6	253.3	-25.8	78.7	0.0	0.0	M	100.4
12/17/2020 19:00	11.0	260.8	-25.5	78.8	0.0	0.0	M	100.4
12/17/2020 20:00	10.6	258.7	-25.2	78.8	0.0	0.0	M	100.4
12/17/2020 21:00	9.2	252.1	-24.5	79.3	0.0	0.0	M	100.4
12/17/2020 22:00	7.7	248.4	-24.0	79.2	0.0	0.0	M	100.4
12/17/2020 23:00	6.4	242.3	-23.8	78.6	0.0	0.0	M	100.4
12/18/2020 0:00	8.6	247.5	-23.3	78.6	0.0	0.0	M	100.3
12/18/2020 1:00	8.7	247.0	-23.1	79.0	0.0	0.0	M	100.3
12/18/2020 2:00	7.3	247.9	-23.1	79.9	0.0	0.0	M	100.3
12/18/2020 3:00	7.7	249.7	-23.1	79.7	0.0	0.0	M	100.3
12/18/2020 4:00	6.9	244.6	-23.6	78.9	0.0	0.0	M	100.3
12/18/2020 5:00	7.0	245.8	-23.7	77.9	0.0	0.0	M	100.2
12/18/2020 6:00	6.5	247.6	-23.8	77.4	0.0	0.0	M	100.2
12/18/2020 7:00	5.9	240.3	-24.3	75.9	0.0	0.0	M	100.2
12/18/2020 8:00	4.6	229.9	-24.6	75.7	0.0	0.0	M	100.2
12/18/2020 9:00	4.6	240.9	-24.8	76.2	0.0	0.0	M	100.2
12/18/2020 10:00	7.0	256.8	-25.3	77.9	0.0	0.0	M	100.2
12/18/2020 11:00	6.2	265.2	-25.9	79.0	0.6	0.0	M	100.3
12/18/2020 12:00	5.6	268.4	-26.5	79.1	2.7	0.0	M	100.3
12/18/2020 13:00	6.7	267.1	-26.7	79.2	3.3	0.0	M	100.3
12/18/2020 14:00	4.4	286.5	-26.9	79.1	1.2	0.0	M	100.3
12/18/2020 15:00	4.8	287.1	-27.2	78.8	0.0	0.0	M	100.3
12/18/2020 16:00	5.3	280.4	-27.6	78.7	0.0	0.0	M	100.3
12/18/2020 17:00	4.0	285.8	-27.7	78.5	0.0	0.0	M	100.3
12/18/2020 18:00	4.4	277.7	-27.6	78.6	0.0	0.0	M	100.3
12/18/2020 19:00	4.7	283.1	-27.4	78.7	0.0	0.0	M	100.3
12/18/2020 20:00	5.8	279.7	-27.6	78.6	0.0	0.0	M	100.3
12/18/2020 21:00	6.1	273.4	-27.6	78.5	0.0	0.0	M	100.3
12/18/2020 22:00	6.0	276.3	-28.1	78.0	0.0	0.0	M	100.3
12/18/2020 23:00	5.7	284.4	-28.6	77.6	0.0	0.0	M	100.3
12/19/2020 0:00	5.2	286.8	-29.0	77.2	0.0	0.0	M	100.3
12/19/2020 1:00	4.9	287.9	-29.1	77.1	0.0	0.0	M	100.3
12/19/2020 2:00	2.0	299.9	-29.2	76.9	0.0	0.0	M	100.3
12/19/2020 3:00	1.3	305.5	-29.5	76.5	0.0	0.0	M	100.3
12/19/2020 4:00	1.6	44.1	-30.5	75.4	0.0	0.0	M	100.3
12/19/2020 5:00	1.5	50.0	-32.0	74.0	0.0	0.0	M	100.4
12/19/2020 6:00	1.5	84.3	-32.7	73.6	0.0	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/19/2020 7:00	1.5	92.2	-32.6	73.3	0.0	0.0	M	100.3
12/19/2020 8:00	2.1	57.0	-33.9	72.2	0.0	0.0	M	100.4
12/19/2020 9:00	2.1	74.4	-34.2	71.9	0.0	0.0	M	100.4
12/19/2020 10:00	1.9	78.4	-34.6	71.5	0.0	0.0	M	100.4
12/19/2020 11:00	1.9	93.0	-34.5	71.6	0.4	0.0	M	100.5
12/19/2020 12:00	2.1	108.5	-34.1	72.0	2.2	0.0	M	100.5
12/19/2020 13:00	2.0	91.7	-34.7	71.2	2.4	0.0	M	100.5
12/19/2020 14:00	2.2	99.4	-34.8	71.2	0.8	0.0	M	100.6
12/19/2020 15:00	2.3	73.1	-35.5	70.5	0.0	0.0	M	100.6
12/19/2020 16:00	2.0	69.8	-35.7	70.3	0.0	0.0	M	100.7
12/19/2020 17:00	2.1	89.8	-35.8	70.1	0.0	0.0	M	100.7
12/19/2020 18:00	2.3	113.6	-35.0	71.1	0.0	0.0	M	100.7
12/19/2020 19:00	1.9	105.1	-35.6	70.1	0.0	0.0	M	100.7
12/19/2020 20:00	1.7	88.2	-36.5	69.4	0.0	0.0	M	99.9
12/19/2020 21:00	1.8	87.6	-36.8	69.1	0.0	0.0	M	98.7
12/19/2020 22:00	1.5	99.4	-36.7	69.2	0.0	0.0	M	99.0
12/19/2020 23:00	1.2	99.0	-36.7	69.1	0.0	0.0	M	98.7
12/20/2020 0:00	1.0	86.3	-37.0	68.7	0.0	0.0	M	97.5
12/20/2020 1:00	1.2	90.2	-37.0	68.8	0.0	0.0	M	97.7
12/20/2020 2:00	1.2	102.2	-37.1	68.7	0.0	0.0	M	97.5
12/20/2020 3:00	0.6	115.2	-37.7	67.8	0.0	0.0	M	95.3
12/20/2020 4:00	0.5	88.2	-38.5	67.1	0.0	0.0	M	93.9
12/20/2020 5:00	1.0	81.1	-38.2	67.5	0.0	0.0	M	94.3
12/20/2020 6:00	0.7	108.7	-38.0	67.4	0.0	0.0	M	94.6
12/20/2020 7:00	0.7	128.3	-38.2	67.4	0.0	0.0	M	94.3
12/20/2020 8:00	0.8	83.4	-38.7	66.7	0.0	0.0	M	93.3
12/20/2020 9:00	0.2	101.0	-39.2	66.4	0.0	0.0	M	92.1
12/20/2020 10:00	0.5	144.8	-39.0	66.4	0.0	0.0	M	92.1
12/20/2020 11:00	0.3	134.5	-39.0	66.4	0.8	0.0	M	92.2
12/20/2020 12:00	0.4	73.4	-39.4	65.9	2.3	0.0	M	91.5
12/20/2020 13:00	0.5	187.8	-38.7	66.9	2.3	0.0	M	92.3
12/20/2020 14:00	0.3	182.5	-38.2	67.3	0.6	0.0	M	93.2
12/20/2020 15:00	0.6	289.2	-36.8	69.1	0.0	0.0	M	96.3
12/20/2020 16:00	0.8	282.0	-36.0	69.3	0.0	0.0	M	98.3
12/20/2020 17:00	2.3	252.3	-36.3	69.2	0.0	0.0	M	99.5
12/20/2020 18:00	3.7	282.3	-36.3	69.3	0.0	0.0	M	100.5
12/20/2020 19:00	3.4	287.0	-36.1	69.5	0.0	0.0	M	100.9
12/20/2020 20:00	5.7	289.0	-35.7	69.8	0.0	0.0	M	100.8
12/20/2020 21:00	5.3	280.7	-35.8	69.9	0.0	0.0	M	100.8
12/20/2020 22:00	5.9	278.6	-35.2	70.4	0.0	0.0	M	100.8
12/20/2020 23:00	7.3	282.3	-35.2	70.3	0.0	0.0	M	100.9
12/21/2020 0:00	9.0	278.6	-35.1	70.5	0.0	0.0	M	100.9
12/21/2020 1:00	8.1	279.3	-35.1	70.6	0.0	0.0	M	100.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/21/2020 2:00	10.0	281.8	-34.7	70.9	0.0	0.0	M	100.9
12/21/2020 3:00	10.3	274.1	-34.5	71.1	0.0	0.0	M	100.9
12/21/2020 4:00	9.7	278.0	-34.4	71.1	0.0	0.0	M	100.9
12/21/2020 5:00	9.0	273.9	-34.3	71.3	0.0	0.0	M	101.0
12/21/2020 6:00	11.0	277.6	-34.3	71.3	0.0	0.0	M	100.9
12/21/2020 7:00	11.7	275.5	-34.1	71.5	0.0	0.0	M	100.9
12/21/2020 8:00	11.3	271.2	-33.9	71.7	0.0	0.0	M	100.9
12/21/2020 9:00	12.3	272.6	-33.4	72.2	0.0	0.0	M	100.9
12/21/2020 10:00	13.4	275.5	-33.3	72.2	0.0	0.0	M	100.9
12/21/2020 11:00	13.2	277.0	-32.9	72.8	0.7	0.0	M	100.9
12/21/2020 12:00	11.2	279.8	-31.8	73.9	2.5	0.0	M	101.0
12/21/2020 13:00	8.8	277.7	-30.6	75.0	2.7	0.0	M	101.1
12/21/2020 14:00	8.5	279.4	-29.9	75.6	1.1	0.0	M	101.1
12/21/2020 15:00	10.3	279.4	-29.8	75.8	0.0	0.0	M	101.2
12/21/2020 16:00	9.6	279.8	-29.6	75.9	0.0	0.0	M	101.2
12/21/2020 17:00	9.8	275.2	-30.5	75.0	0.0	0.0	M	101.3
12/21/2020 18:00	10.0	275.3	-31.2	74.4	0.0	0.0	M	101.3
12/21/2020 19:00	9.4	274.2	-31.5	74.3	0.0	0.0	M	101.3
12/21/2020 20:00	8.0	273.1	-31.1	74.6	0.0	0.0	M	101.4
12/21/2020 21:00	6.3	271.0	-31.2	74.5	0.0	0.0	M	101.4
12/21/2020 22:00	6.2	270.8	-31.4	74.2	0.0	0.0	M	101.4
12/21/2020 23:00	9.5	265.1	-31.2	74.5	0.0	0.0	M	101.4
12/22/2020 0:00	9.8	265.8	-31.0	74.6	0.0	0.0	M	101.4
12/22/2020 1:00	9.9	264.2	-31.3	74.4	0.0	0.0	M	101.4
12/22/2020 2:00	8.8	261.4	-31.2	74.5	0.0	0.0	M	101.5
12/22/2020 3:00	9.8	264.5	-30.7	75.1	0.0	0.0	M	101.5
12/22/2020 4:00	10.3	268.0	-30.2	75.5	0.0	0.0	M	101.4
12/22/2020 5:00	9.9	268.1	-30.5	75.0	0.0	0.0	M	101.4
12/22/2020 6:00	9.6	264.1	-31.0	74.6	0.0	0.0	M	101.5
12/22/2020 7:00	9.0	265.3	-30.7	75.1	0.0	0.0	M	101.5
12/22/2020 8:00	8.0	271.7	-30.4	75.2	0.0	0.0	M	101.5
12/22/2020 9:00	8.2	265.4	-30.7	74.9	0.0	0.0	M	101.5
12/22/2020 10:00	8.6	265.5	-31.0	74.7	0.0	0.0	M	101.5
12/22/2020 11:00	8.4	266.4	-31.0	74.7	0.7	0.0	M	101.5
12/22/2020 12:00	9.2	263.8	-31.0	74.6	2.7	0.0	M	101.6
12/22/2020 13:00	8.2	266.4	-31.0	74.6	3.2	0.0	M	101.6
12/22/2020 14:00	7.1	267.0	-31.1	74.6	1.5	0.0	M	101.6
12/22/2020 15:00	9.6	267.3	-31.1	74.6	0.0	0.0	M	101.6
12/22/2020 16:00	9.2	270.4	-31.2	74.5	0.0	0.0	M	101.6
12/22/2020 17:00	9.8	272.9	-31.2	74.5	0.0	0.0	M	101.7
12/22/2020 18:00	9.3	278.5	-31.2	74.5	0.0	0.0	M	101.7
12/22/2020 19:00	8.3	280.0	-31.2	74.5	0.0	0.0	M	101.7
12/22/2020 20:00	7.5	279.5	-30.8	74.9	0.0	0.0	M	101.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/22/2020 21:00	7.2	278.6	-30.0	75.5	0.0	0.0	M	101.7
12/22/2020 22:00	7.2	276.4	-29.4	75.9	0.0	0.0	M	101.7
12/22/2020 23:00	7.1	275.1	-29.0	76.1	0.0	0.0	M	101.7
12/23/2020 0:00	6.8	277.3	-28.9	76.1	0.0	0.0	M	101.7
12/23/2020 1:00	5.4	276.6	-28.9	76.0	0.0	0.0	M	101.7
12/23/2020 2:00	3.7	270.2	-29.1	75.6	0.0	0.0	M	101.8
12/23/2020 3:00	0.8	228.7	-30.1	75.0	0.0	0.0	M	101.7
12/23/2020 4:00	1.3	165.1	-31.0	74.4	0.0	0.0	M	101.7
12/23/2020 5:00	1.7	147.7	-32.6	73.1	0.0	0.0	M	101.7
12/23/2020 6:00	0.8	146.5	-33.3	72.3	0.0	0.0	M	101.6
12/23/2020 7:00	0.4	122.2	-33.5	72.1	0.0	0.0	M	101.5
12/23/2020 8:00	0.3	145.6	-34.0	71.8	0.0	0.0	M	101.5
12/23/2020 9:00	1.0	128.0	-33.5	72.0	0.0	0.0	M	101.5
12/23/2020 10:00	0.9	106.3	-33.8	72.0	0.0	0.0	M	101.5
12/23/2020 11:00	0.5	95.9	-34.1	71.4	0.9	0.0	M	101.4
12/23/2020 12:00	0.7	91.9	-33.9	71.9	3.0	0.0	M	101.3
12/23/2020 13:00	0.4	79.3	-34.0	71.5	3.3	0.0	M	101.2
12/23/2020 14:00	0.5	86.4	-33.8	71.7	1.5	0.0	M	101.1
12/23/2020 15:00	0.6	106.0	-33.9	71.8	0.0	0.0	M	101.0
12/23/2020 16:00	0.6	93.9	-33.5	72.0	0.0	0.0	M	101.0
12/23/2020 17:00	0.8	104.2	-33.2	72.4	0.0	0.0	M	101.0
12/23/2020 18:00	1.0	103.8	-33.0	72.5	0.0	0.0	M	100.9
12/23/2020 19:00	0.7	76.5	-32.8	72.7	0.0	0.0	M	100.8
12/23/2020 20:00	1.0	81.0	-32.1	73.7	0.0	0.0	M	100.6
12/23/2020 21:00	2.4	115.0	-30.7	75.1	0.0	0.0	M	100.5
12/23/2020 22:00	2.7	134.2	-28.7	77.0	0.0	0.0	M	100.4
12/23/2020 23:00	2.3	126.4	-27.1	78.6	0.0	0.0	M	100.3
12/24/2020 0:00	3.9	135.5	-25.0	80.6	0.0	0.0	M	100.2
12/24/2020 1:00	2.8	130.2	-23.5	81.9	0.0	0.0	M	100.1
12/24/2020 2:00	4.8	135.4	-22.4	82.9	0.0	0.0	M	100.0
12/24/2020 3:00	3.5	86.3	-22.3	83.1	0.0	0.0	M	99.9
12/24/2020 4:00	4.7	136.5	-25.5	79.7	0.0	0.0	M	99.8
12/24/2020 5:00	4.4	112.8	-27.4	78.4	0.0	0.0	M	99.7
12/24/2020 6:00	5.4	105.8	-28.8	77.3	0.0	0.0	M	99.6
12/24/2020 7:00	5.3	109.4	-28.0	78.6	0.0	0.0	M	99.5
12/24/2020 8:00	4.5	114.9	-27.6	77.8	0.0	0.0	M	99.5
12/24/2020 9:00	4.2	95.0	-30.6	75.0	0.0	0.0	M	99.4
12/24/2020 10:00	4.5	87.9	-32.2	73.9	0.0	0.0	M	99.4
12/24/2020 11:00	5.6	85.0	-32.9	73.2	0.3	0.0	M	99.4
12/24/2020 12:00	5.3	81.2	-33.2	72.9	1.5	0.0	M	99.4
12/24/2020 13:00	4.7	64.2	-33.7	72.3	1.8	0.0	M	99.5
12/24/2020 14:00	3.3	66.4	-33.9	72.1	0.9	0.0	M	99.5
12/24/2020 15:00	2.8	56.5	-34.0	72.0	0.0	0.0	M	99.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/24/2020 16:00	2.8	50.3	-34.0	72.0	0.0	0.0	M	99.6
12/24/2020 17:00	1.4	60.8	-33.8	72.0	0.0	0.0	M	99.7
12/24/2020 18:00	0.4	49.2	-33.8	71.9	0.0	0.0	M	99.7
12/24/2020 19:00	0.5	62.5	-33.6	72.1	0.0	0.0	M	99.8
12/24/2020 20:00	0.3	41.7	-33.8	71.9	0.0	0.0	M	99.9
12/24/2020 21:00	0.6	34.0	-33.7	72.0	0.0	0.0	M	100.0
12/24/2020 22:00	0.3	276.7	-33.8	72.1	0.0	0.0	M	100.0
12/24/2020 23:00	0.1	175.7	-33.6	72.2	0.0	0.0	M	100.1
12/25/2020 0:00	0.3	191.2	-33.8	72.0	0.0	0.0	M	100.2
12/25/2020 1:00	0.4	257.5	-33.3	72.3	0.0	0.0	M	100.3
12/25/2020 2:00	0.2	314.7	-33.5	72.1	0.0	0.0	M	100.3
12/25/2020 3:00	0.3	281.7	-33.3	72.4	0.0	0.0	M	100.4
12/25/2020 4:00	0.5	15.1	-33.5	71.9	0.0	0.0	M	100.5
12/25/2020 5:00	0.2	286.6	-33.6	72.1	0.0	0.0	M	100.6
12/25/2020 6:00	0.6	285.8	-33.5	72.2	0.0	0.0	M	100.7
12/25/2020 7:00	0.2	59.0	-34.4	70.9	0.0	0.0	M	100.7
12/25/2020 8:00	0.4	83.3	-34.7	70.9	0.0	0.0	M	100.8
12/25/2020 9:00	0.3	76.2	-34.9	70.6	0.0	0.0	M	100.8
12/25/2020 10:00	0.5	84.7	-35.5	70.0	0.0	0.0	M	100.7
12/25/2020 11:00	0.2	110.3	-35.5	69.9	0.4	0.0	M	100.2
12/25/2020 12:00	0.1	145.7	-35.8	69.8	1.8	0.0	M	99.7
12/25/2020 13:00	0.2	93.5	-35.5	69.9	2.1	0.0	M	99.7
12/25/2020 14:00	C	C	-36.0	69.3	0.8	0.0	M	98.9
12/25/2020 15:00	0.5	142.5	-36.0	69.5	0.0	0.0	M	99.3
12/25/2020 16:00	0.6	120.0	-36.0	69.3	0.0	0.0	M	99.5
12/25/2020 17:00	0.3	74.9	-36.3	69.0	0.0	0.0	M	98.4
12/25/2020 18:00	0.4	88.6	-36.5	69.0	0.0	0.0	M	98.2
12/25/2020 19:00	0.3	82.3	-36.2	69.2	0.0	0.0	M	98.2
12/25/2020 20:00	0.4	73.3	-36.4	68.9	0.0	0.0	M	98.1
12/25/2020 21:00	0.4	92.3	-36.3	69.1	0.0	0.0	M	98.5
12/25/2020 22:00	0.3	69.9	-36.2	69.0	0.0	0.0	M	98.1
12/25/2020 23:00	0.3	54.6	-36.2	69.2	0.0	0.0	M	98.6
12/26/2020 0:00	0.4	58.2	-35.6	70.0	0.0	0.0	M	101.3
12/26/2020 1:00	0.4	53.3	-34.1	71.4	0.0	0.0	M	101.4
12/26/2020 2:00	0.8	45.0	-32.7	72.8	0.0	0.0	M	101.4
12/26/2020 3:00	1.2	50.6	-31.9	73.4	0.0	0.0	M	101.5
12/26/2020 4:00	1.7	56.0	-31.0	74.4	0.0	0.0	M	101.4
12/26/2020 5:00	1.8	67.1	-29.0	76.5	0.0	0.0	M	101.4
12/26/2020 6:00	2.4	49.5	-28.3	77.0	0.0	0.0	M	101.4
12/26/2020 7:00	2.0	44.6	-27.5	77.9	0.0	0.0	M	101.4
12/26/2020 8:00	1.6	48.3	-26.5	78.8	0.0	0.0	M	101.4
12/26/2020 9:00	1.3	44.4	-25.7	79.6	0.0	0.0	M	101.4
12/26/2020 10:00	1.6	46.4	-24.8	80.4	0.0	0.0	M	101.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/26/2020 11:00	1.4	60.5	-24.1	81.2	0.2	0.0	M	101.5
12/26/2020 12:00	2.4	136.5	-23.6	81.6	1.2	0.0	M	101.5
12/26/2020 13:00	2.1	141.7	-25.1	80.2	1.8	0.0	M	101.5
12/26/2020 14:00	1.1	120.8	-26.7	78.6	1.4	0.0	M	101.6
12/26/2020 15:00	1.0	99.6	-27.9	77.5	0.0	0.0	M	101.6
12/26/2020 16:00	0.7	80.7	-28.3	77.4	0.0	0.0	M	101.6
12/26/2020 17:00	0.4	93.9	-28.2	77.3	0.0	0.0	M	101.7
12/26/2020 18:00	0.5	77.0	-29.3	76.2	0.0	0.0	M	101.7
12/26/2020 19:00	0.3	76.9	-29.7	75.9	0.0	0.0	M	101.7
12/26/2020 20:00	0.5	74.0	-30.5	75.0	0.0	0.0	M	101.7
12/26/2020 21:00	0.7	75.0	-30.8	74.8	0.0	0.0	M	101.6
12/26/2020 22:00	0.9	102.5	-30.7	75.1	0.0	0.0	M	101.7
12/26/2020 23:00	0.7	78.8	-30.5	75.1	0.0	0.0	M	101.7
12/27/2020 0:00	0.9	105.8	-29.4	76.5	0.0	0.0	M	101.6
12/27/2020 1:00	0.6	88.5	-27.8	77.8	0.0	0.0	M	101.6
12/27/2020 2:00	0.8	62.3	-26.9	78.5	0.0	0.0	M	101.6
12/27/2020 3:00	1.2	74.1	-26.8	78.7	0.0	0.0	M	101.5
12/27/2020 4:00	0.8	94.4	-26.9	78.6	0.0	0.0	M	101.5
12/27/2020 5:00	1.4	116.3	-25.8	79.9	0.0	0.0	M	101.4
12/27/2020 6:00	1.9	122.6	-24.0	81.6	0.0	0.0	M	101.4
12/27/2020 7:00	3.4	126.8	-21.8	83.7	0.0	0.0	M	101.3
12/27/2020 8:00	3.8	116.8	-21.3	83.8	0.0	0.0	M	101.2
12/27/2020 9:00	4.3	101.9	-23.2	82.1	0.0	0.0	M	101.2
12/27/2020 10:00	3.2	112.5	-24.5	80.8	0.0	0.0	M	101.1
12/27/2020 11:00	2.9	102.7	-27.1	78.7	0.4	0.0	M	101.0
12/27/2020 12:00	2.7	113.3	-26.9	79.2	1.5	0.0	M	100.9
12/27/2020 13:00	2.1	111.7	-27.7	77.9	1.4	0.0	M	100.8
12/27/2020 14:00	1.8	121.4	-27.1	79.2	0.5	0.0	M	100.8
12/27/2020 15:00	2.4	115.3	-27.3	78.4	0.0	0.0	M	100.7
12/27/2020 16:00	2.4	93.6	-28.9	76.8	0.0	0.0	M	100.6
12/27/2020 17:00	2.8	88.6	-29.1	77.0	0.0	0.0	M	100.5
12/27/2020 18:00	3.2	99.8	-28.7	77.0	0.0	0.0	M	100.4
12/27/2020 19:00	2.9	86.2	-30.3	75.7	0.0	0.0	M	100.3
12/27/2020 20:00	3.0	85.1	-30.3	75.8	0.0	0.0	M	100.2
12/27/2020 21:00	3.0	81.6	-30.0	76.0	0.0	0.0	M	100.1
12/27/2020 22:00	3.5	77.7	-30.3	75.6	0.0	0.0	M	100.1
12/27/2020 23:00	2.6	87.5	-30.6	75.4	0.0	0.0	M	100.1
12/28/2020 0:00	3.1	83.0	-30.8	75.1	0.0	0.0	M	100.0
12/28/2020 1:00	3.1	80.0	-30.3	75.7	0.0	0.0	M	100.0
12/28/2020 2:00	3.4	79.0	-29.9	76.1	0.0	0.0	M	100.0
12/28/2020 3:00	3.1	77.7	-29.5	76.3	0.0	0.0	M	100.1
12/28/2020 4:00	5.1	72.7	-29.6	76.3	0.0	0.0	M	100.0
12/28/2020 5:00	4.9	72.6	-29.6	76.3	0.0	0.0	M	100.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/28/2020 6:00	4.7	72.9	-29.4	76.4	0.0	0.0	M	100.1
12/28/2020 7:00	4.9	71.5	-29.3	76.6	0.0	0.0	M	100.2
12/28/2020 8:00	3.8	69.5	-29.3	76.5	0.0	0.0	M	100.2
12/28/2020 9:00	2.6	69.9	-29.2	76.5	0.0	0.0	M	100.3
12/28/2020 10:00	2.3	44.8	-29.1	76.6	0.0	0.0	M	100.3
12/28/2020 11:00	1.5	44.9	-28.6	77.0	0.0	0.0	M	100.3
12/28/2020 12:00	0.7	39.3	-28.9	76.6	0.8	0.0	M	100.4
12/28/2020 13:00	2.1	292.5	-28.8	77.1	0.9	0.0	M	100.5
12/28/2020 14:00	1.7	287.4	-28.1	77.5	0.4	0.0	M	100.6
12/28/2020 15:00	3.0	284.9	-29.6	76.0	0.0	0.0	M	100.6
12/28/2020 16:00	3.6	278.9	-29.9	76.0	0.0	0.0	M	100.7
12/28/2020 17:00	5.0	283.9	-30.5	75.5	0.0	0.0	M	100.7
12/28/2020 18:00	5.7	286.1	-30.3	75.7	0.0	0.0	M	100.7
12/28/2020 19:00	7.1	286.6	-29.7	76.3	0.0	0.0	M	100.6
12/28/2020 20:00	7.5	286.1	-29.8	76.1	0.0	0.0	M	100.7
12/28/2020 21:00	6.6	283.9	-30.1	75.7	0.0	0.0	M	100.7
12/28/2020 22:00	6.1	282.8	-30.5	75.5	0.0	0.0	M	100.8
12/28/2020 23:00	5.9	290.4	-30.4	75.5	0.0	0.0	M	100.8
12/29/2020 0:00	6.4	280.9	-30.2	75.7	0.0	0.0	M	100.8
12/29/2020 1:00	6.4	278.9	-30.0	76.0	0.0	0.0	M	100.8
12/29/2020 2:00	5.4	288.3	-29.6	76.2	0.0	0.0	M	100.7
12/29/2020 3:00	6.4	283.2	-29.4	76.5	0.0	0.0	M	100.8
12/29/2020 4:00	5.6	285.1	-29.1	76.8	0.0	0.0	M	100.7
12/29/2020 5:00	7.3	280.1	-28.5	77.4	0.0	0.0	M	100.7
12/29/2020 6:00	8.1	277.2	-28.0	77.8	0.0	0.0	M	100.6
12/29/2020 7:00	11.0	275.3	-27.1	78.8	0.0	0.0	M	100.5
12/29/2020 8:00	15.0	273.0	-26.8	79.0	0.0	0.0	M	100.5
12/29/2020 9:00	14.3	274.6	-25.9	79.9	0.0	0.0	M	100.5
12/29/2020 10:00	14.5	275.6	-25.1	80.6	0.0	0.0	M	100.5
12/29/2020 11:00	14.2	277.3	-24.7	81.0	0.4	0.0	M	100.4
12/29/2020 12:00	12.6	277.0	-24.2	81.5	2.0	0.0	M	100.5
12/29/2020 13:00	10.9	277.5	-23.5	82.2	2.3	0.0	M	100.5
12/29/2020 14:00	10.2	274.3	-22.8	82.8	1.0	0.0	M	100.5
12/29/2020 15:00	10.3	277.4	-22.5	83.0	0.0	0.0	M	100.5
12/29/2020 16:00	10.8	274.4	-22.2	83.3	0.0	0.0	M	100.5
12/29/2020 17:00	9.6	268.0	-22.0	83.4	0.0	0.0	M	100.5
12/29/2020 18:00	8.6	266.6	-21.8	83.6	0.0	0.0	M	100.5
12/29/2020 19:00	8.1	267.3	-21.5	83.7	0.0	0.0	M	100.5
12/29/2020 20:00	7.1	269.9	-21.2	83.9	0.0	0.0	M	100.5
12/29/2020 21:00	7.3	269.0	-21.0	84.0	0.0	0.0	M	100.5
12/29/2020 22:00	7.4	270.3	-21.0	84.1	0.0	0.0	M	100.5
12/29/2020 23:00	6.0	277.7	-20.9	84.3	0.0	0.0	M	100.5
12/30/2020 0:00	6.2	282.7	-21.0	84.2	0.0	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/30/2020 1:00	6.0	284.2	-21.0	84.1	0.0	0.0	M	100.5
12/30/2020 2:00	5.3	286.3	-21.1	84.0	0.0	0.0	M	100.4
12/30/2020 3:00	6.6	280.8	-21.2	83.8	0.0	0.0	M	100.4
12/30/2020 4:00	6.6	264.5	-21.1	82.9	0.0	0.0	M	100.3
12/30/2020 5:00	5.7	261.2	-21.0	82.1	0.0	0.0	M	100.3
12/30/2020 6:00	5.0	259.8	-21.1	82.0	0.0	0.0	M	100.2
12/30/2020 7:00	8.6	263.0	-21.0	81.4	0.0	0.0	M	100.1
12/30/2020 8:00	9.6	259.3	-21.0	81.3	0.0	0.0	M	100.1
12/30/2020 9:00	8.6	275.4	-20.8	81.7	0.0	0.0	M	100.1
12/30/2020 10:00	8.8	270.7	-21.3	82.6	0.0	0.0	M	100.1
12/30/2020 11:00	8.5	278.5	-21.4	83.8	0.7	0.0	M	100.1
12/30/2020 12:00	7.2	282.4	-21.6	83.5	2.4	0.0	M	100.1
12/30/2020 13:00	5.0	300.2	-22.2	80.4	2.7	0.0	M	100.1
12/30/2020 14:00	4.7	331.4	-23.9	77.8	1.6	0.0	M	100.1
12/30/2020 15:00	2.8	308.4	-25.1	78.0	0.1	0.0	M	100.2
12/30/2020 16:00	2.7	289.6	-26.1	78.5	0.0	0.0	M	100.2
12/30/2020 17:00	2.8	267.8	-26.6	78.5	0.0	0.0	M	100.2
12/30/2020 18:00	3.0	282.7	-27.6	77.8	0.0	0.0	M	100.2
12/30/2020 19:00	2.0	274.9	-28.1	77.4	0.0	0.0	M	100.2
12/30/2020 20:00	3.5	288.9	-28.7	77.3	0.0	0.0	M	100.1
12/30/2020 21:00	4.7	280.2	-29.0	77.5	0.0	0.0	M	100.1
12/30/2020 22:00	5.0	280.8	-28.6	77.5	0.0	0.0	M	100.1
12/30/2020 23:00	5.4	281.4	-29.1	77.0	0.0	0.0	M	100.1
12/31/2020 0:00	4.5	278.8	-29.5	76.6	0.0	0.0	M	100.1
12/31/2020 1:00	4.6	282.1	-29.8	76.1	0.0	0.0	M	100.1
12/31/2020 2:00	4.8	279.7	-29.9	76.1	0.0	0.0	M	100.1
12/31/2020 3:00	7.3	273.2	-28.7	76.2	0.0	0.0	M	100.1
12/31/2020 4:00	7.8	276.9	-28.9	75.8	0.0	0.0	M	100.1
12/31/2020 5:00	8.0	276.2	-28.9	76.3	0.0	0.0	M	100.1
12/31/2020 6:00	6.0	277.2	-28.7	76.8	0.0	0.0	M	100.0
12/31/2020 7:00	6.4	280.5	-27.9	77.7	0.0	0.0	M	100.0
12/31/2020 8:00	8.4	278.6	-26.5	78.5	0.0	0.0	M	100.0
12/31/2020 9:00	6.2	280.1	-26.8	77.3	0.0	0.0	M	100.0
12/31/2020 10:00	8.5	262.2	-26.7	78.0	0.0	0.0	M	100.0
12/31/2020 11:00	8.6	275.1	-27.7	78.1	1.1	0.0	M	99.9
12/31/2020 12:00	9.7	273.7	-28.1	77.1	3.4	0.0	M	99.9
12/31/2020 13:00	11.2	271.9	-28.4	75.9	4.2	0.0	M	99.8
12/31/2020 14:00	11.7	273.9	-28.4	75.5	2.1	0.0	M	99.9
12/31/2020 15:00	11.2	272.1	-27.3	76.7	0.1	0.0	M	99.8
12/31/2020 16:00	10.1	275.3	-26.5	77.9	0.0	0.0	M	99.8
12/31/2020 17:00	10.2	269.7	-26.2	78.1	0.0	0.0	M	99.8
12/31/2020 18:00	9.6	273.6	-26.0	78.9	0.0	0.0	M	99.7
12/31/2020 19:00	10.5	274.8	-25.2	79.5	0.0	0.0	M	99.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
12/31/2020 20:00	10.3	277.1	-25.1	79.0	0.0	0.0	M	99.8
12/31/2020 21:00	10.1	275.4	-25.7	78.0	0.0	0.0	M	99.8
12/31/2020 22:00	10.7	276.8	-26.3	77.2	0.0	0.0	M	99.8
12/31/2020 23:00	11.4	267.6	-26.6	76.7	0.0	0.0	M	99.7
1/1/2021 0:00	12.2	265.9	-26.3	75.7	0.0	0.0	M	99.8
1/1/2021 1:00	11.5	264.3	-26.2	76.5	0.0	0.0	M	99.9
1/1/2021 2:00	11.7	268.8	-26.1	77.2	0.0	0.0	M	99.8
1/1/2021 3:00	12.0	270.7	-26.3	77.6	0.0	0.0	M	99.9
1/1/2021 4:00	12.5	271.6	-26.6	77.8	0.0	0.0	M	99.8
1/1/2021 5:00	13.1	267.7	-26.4	77.9	0.0	0.0	M	99.7
1/1/2021 6:00	13.9	267.9	-26.3	78.3	0.0	0.0	M	99.8
1/1/2021 7:00	12.8	266.0	-26.2	78.3	0.0	0.0	M	99.7
1/1/2021 8:00	13.0	262.9	-26.2	78.7	0.0	0.0	M	99.7
1/1/2021 9:00	12.9	262.5	-25.9	79.0	0.0	0.0	M	99.7
1/1/2021 10:00	13.5	262.5	-25.5	79.2	0.0	0.0	M	99.7
1/1/2021 11:00	13.0	263.6	-25.4	79.4	0.8	0.0	M	99.7
1/1/2021 12:00	10.9	263.5	-25.2	79.6	3.5	0.0	M	99.7
1/1/2021 13:00	11.5	265.6	-24.8	79.9	3.2	0.0	M	99.7
1/1/2021 14:00	10.3	268.0	-24.3	80.3	1.8	0.0	M	99.7
1/1/2021 15:00	10.0	275.3	-23.9	80.9	0.1	0.0	M	99.7
1/1/2021 16:00	9.9	281.8	-23.8	81.9	0.0	0.0	M	99.7
1/1/2021 17:00	9.9	282.4	-23.2	82.4	0.0	0.0	M	99.7
1/1/2021 18:00	9.1	279.5	-23.3	82.3	0.0	0.0	M	99.7
1/1/2021 19:00	8.4	280.3	-23.6	82.1	0.0	0.0	M	99.7
1/1/2021 20:00	8.8	280.6	-23.6	82.3	0.0	0.0	M	99.7
1/1/2021 21:00	6.8	299.7	-23.4	82.0	0.0	0.0	M	99.8
1/1/2021 22:00	6.2	294.1	-23.7	80.9	0.0	0.0	M	99.8
1/1/2021 23:00	6.9	295.7	-24.1	80.2	0.0	0.0	M	99.8
1/2/2021 0:00	6.0	299.5	-24.9	79.5	0.0	0.0	M	99.8
1/2/2021 1:00	5.4	307.2	-25.3	78.7	0.0	0.0	M	99.8
1/2/2021 2:00	5.8	301.8	-25.7	78.0	0.0	0.0	M	99.9
1/2/2021 3:00	3.7	301.3	-26.4	76.6	0.0	0.0	M	99.9
1/2/2021 4:00	3.8	297.2	-27.6	76.9	0.0	0.0	M	99.9
1/2/2021 5:00	2.2	355.0	-28.6	75.5	0.0	0.0	M	100.0
1/2/2021 6:00	1.2	297.2	-29.5	75.9	0.0	0.0	M	100.0
1/2/2021 7:00	1.9	331.4	-29.6	75.8	0.0	0.0	M	100.0
1/2/2021 8:00	1.0	339.1	-30.1	75.3	0.0	0.0	M	100.0
1/2/2021 9:00	1.3	274.8	-31.1	75.5	0.0	0.0	M	100.1
1/2/2021 10:00	0.7	48.0	-31.5	74.9	0.0	0.0	M	100.1
1/2/2021 11:00	0.8	110.8	-31.8	74.5	1.3	0.0	M	100.1
1/2/2021 12:00	0.4	66.7	-32.7	73.6	3.9	0.0	M	100.1
1/2/2021 13:00	0.8	263.9	-32.5	73.8	4.4	0.0	M	100.1
1/2/2021 14:00	1.0	11.2	-32.7	73.4	2.3	0.0	M	100.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/2/2021 15:00	0.5	96.2	-33.4	72.6	0.1	0.0	M	100.1
1/2/2021 16:00	1.1	118.4	-33.6	72.6	0.0	0.0	M	100.2
1/2/2021 17:00	0.8	133.4	-34.3	71.6	0.0	0.0	M	100.2
1/2/2021 18:00	0.3	167.6	-34.7	71.2	0.0	0.0	M	100.1
1/2/2021 19:00	0.6	53.1	-35.1	70.8	0.0	0.0	M	100.1
1/2/2021 20:00	0.2	37.4	-35.5	70.5	0.0	0.0	M	99.7
1/2/2021 21:00	0.4	106.1	-35.0	70.8	0.0	0.0	M	100.0
1/2/2021 22:00	0.6	144.9	-35.2	70.8	0.0	0.0	M	100.1
1/2/2021 23:00	0.7	115.3	-35.4	70.4	0.0	0.0	M	100.1
1/3/2021 0:00	0.2	164.2	-35.9	69.8	0.0	0.0	M	98.4
1/3/2021 1:00	0.3	153.2	-36.0	69.7	0.0	0.0	M	98.4
1/3/2021 2:00	0.3	103.8	-35.9	69.8	0.0	0.0	M	98.5
1/3/2021 3:00	0.3	144.2	-36.0	69.8	0.0	0.0	M	99.7
1/3/2021 4:00	1.2	108.4	-35.3	70.6	0.0	0.0	M	100.1
1/3/2021 5:00	0.4	112.8	-35.2	70.5	0.0	0.0	M	100.1
1/3/2021 6:00	0.2	170.2	-35.0	70.6	0.0	0.0	M	100.1
1/3/2021 7:00	0.3	147.6	-34.8	70.7	0.0	0.0	M	100.1
1/3/2021 8:00	0.1	132.4	-35.0	70.6	0.0	0.0	M	100.1
1/3/2021 9:00	0.2	115.3	-34.8	70.9	0.0	0.0	M	100.1
1/3/2021 10:00	0.4	117.9	-34.0	71.6	0.0	0.0	M	100.1
1/3/2021 11:00	0.5	97.6	-33.2	72.4	0.7	0.0	M	100.2
1/3/2021 12:00	0.2	112.0	-32.4	73.0	2.7	0.0	M	100.1
1/3/2021 13:00	0.5	105.9	-31.9	73.6	4.1	0.0	M	100.1
1/3/2021 14:00	0.1	126.4	-32.2	73.3	2.0	0.0	M	100.2
1/3/2021 15:00	0.6	101.0	-31.7	73.9	0.0	0.0	M	100.2
1/3/2021 16:00	0.5	105.4	-31.6	73.9	0.0	0.0	M	100.2
1/3/2021 17:00	0.1	92.6	-31.2	74.3	0.0	0.0	M	100.3
1/3/2021 18:00	0.6	106.0	-30.1	75.6	0.0	0.0	M	100.3
1/3/2021 19:00	0.9	98.8	-29.5	76.0	0.0	0.0	M	100.3
1/3/2021 20:00	1.0	100.4	-29.3	76.3	0.0	0.0	M	100.3
1/3/2021 21:00	0.8	105.9	-29.2	76.3	0.0	0.0	M	100.3
1/3/2021 22:00	0.4	102.2	-29.4	76.1	0.0	0.0	M	100.3
1/3/2021 23:00	0.6	121.5	-29.7	75.7	0.0	0.0	M	100.3
1/4/2021 0:00	0.8	72.0	-29.9	75.7	0.0	0.0	M	100.4
1/4/2021 1:00	0.5	98.2	-30.4	75.2	0.0	0.0	M	100.4
1/4/2021 2:00	0.6	95.9	-30.6	74.9	0.0	0.0	M	100.4
1/4/2021 3:00	0.5	70.1	-31.1	74.4	0.0	0.0	M	100.5
1/4/2021 4:00	0.3	59.4	-31.6	74.1	0.0	0.0	M	100.5
1/4/2021 5:00	0.6	62.2	-31.8	73.9	0.0	0.0	M	100.5
1/4/2021 6:00	0.6	78.3	-32.0	73.7	0.0	0.0	M	100.5
1/4/2021 7:00	0.3	91.1	-32.2	73.4	0.0	0.0	M	100.5
1/4/2021 8:00	0.7	86.5	-32.5	73.2	0.0	0.0	M	100.6
1/4/2021 9:00	0.8	97.6	-32.4	73.3	0.0	0.0	M	100.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/4/2021 10:00	0.4	86.4	-32.4	73.2	0.0	0.0	M	100.6
1/4/2021 11:00	0.4	95.7	-32.3	73.2	0.4	0.0	M	100.6
1/4/2021 12:00	0.6	101.9	-32.2	73.4	2.6	0.0	M	100.6
1/4/2021 13:00	0.6	95.7	-32.6	73.0	3.5	0.0	M	100.6
1/4/2021 14:00	0.3	78.8	-32.9	72.7	1.6	0.0	M	100.7
1/4/2021 15:00	0.5	62.0	-33.0	72.6	0.1	0.0	M	100.7
1/4/2021 16:00	0.9	46.4	-33.2	72.4	0.0	0.0	M	100.8
1/4/2021 17:00	0.9	59.4	-33.2	72.5	0.0	0.0	M	100.8
1/4/2021 18:00	0.8	69.6	-33.3	72.3	0.0	0.0	M	100.8
1/4/2021 19:00	0.8	75.9	-33.5	72.1	0.0	0.0	M	100.9
1/4/2021 20:00	0.8	82.7	-34.2	71.4	0.0	0.0	M	100.9
1/4/2021 21:00	0.5	88.3	-34.5	71.0	0.0	0.0	M	100.9
1/4/2021 22:00	0.1	83.6	-35.2	70.3	0.0	0.0	M	100.9
1/4/2021 23:00	0.4	86.8	-35.2	70.3	0.0	0.0	M	101.0
1/5/2021 0:00	0.2	92.9	-35.6	69.8	0.0	0.0	M	99.9
1/5/2021 1:00	0.3	60.1	-35.6	69.9	0.0	0.0	M	99.8
1/5/2021 2:00	0.4	96.2	-35.6	70.0	0.0	0.0	M	99.8
1/5/2021 3:00	0.4	109.3	-35.9	69.6	0.0	0.0	M	100.3
1/5/2021 4:00	0.5	85.5	-36.3	69.1	0.0	0.0	M	99.1
1/5/2021 5:00	0.3	67.1	-36.5	69.0	0.0	0.0	M	98.3
1/5/2021 6:00	0.6	81.5	-36.4	69.2	0.0	0.0	M	98.9
1/5/2021 7:00	0.6	94.0	-36.2	69.2	0.0	0.0	M	99.5
1/5/2021 8:00	0.5	68.9	-36.3	69.2	0.0	0.0	M	99.4
1/5/2021 9:00	0.5	58.7	-36.3	69.2	0.0	0.0	M	99.5
1/5/2021 10:00	0.3	66.9	-36.2	69.3	0.0	0.0	M	99.1
1/5/2021 11:00	1.0	105.5	-35.6	69.9	1.2	0.0	M	101.4
1/5/2021 12:00	1.1	100.0	-35.2	70.3	3.6	0.0	M	101.4
1/5/2021 13:00	1.0	99.5	-35.2	70.2	3.7	0.0	M	101.4
1/5/2021 14:00	0.5	81.0	-35.1	70.4	1.4	0.0	M	101.4
1/5/2021 15:00	0.7	79.0	-34.6	70.8	0.0	0.0	M	101.5
1/5/2021 16:00	0.7	78.5	-34.7	70.6	0.0	0.0	M	101.5
1/5/2021 17:00	0.8	86.9	-34.2	71.4	0.0	0.0	M	101.5
1/5/2021 18:00	1.3	104.4	-33.5	71.9	0.0	0.0	M	101.4
1/5/2021 19:00	1.6	112.6	-32.3	73.3	0.0	0.0	M	101.4
1/5/2021 20:00	1.7	117.1	-31.4	74.2	0.0	0.0	M	101.3
1/5/2021 21:00	3.9	128.0	-29.7	75.7	0.0	0.0	M	101.2
1/5/2021 22:00	5.3	124.3	-28.6	77.1	0.0	0.0	M	101.2
1/5/2021 23:00	4.7	110.7	-27.7	77.7	0.0	0.0	M	101.1
1/6/2021 0:00	5.0	110.5	-26.6	78.9	0.0	0.0	M	101.0
1/6/2021 1:00	6.0	121.3	-25.7	79.6	0.0	0.0	M	100.9
1/6/2021 2:00	7.6	123.8	-25.8	80.0	0.0	0.0	M	100.8
1/6/2021 3:00	10.4	136.9	-24.9	80.4	0.0	0.0	M	100.7
1/6/2021 4:00	12.0	139.0	-25.3	80.3	0.0	0.0	M	100.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/6/2021 5:00	10.6	131.3	-24.5	81.0	0.0	0.0	M	100.5
1/6/2021 6:00	11.7	134.1	-24.1	81.6	0.0	0.0	M	100.4
1/6/2021 7:00	8.8	114.6	-22.5	83.3	0.0	0.0	M	100.3
1/6/2021 8:00	9.4	116.6	-23.0	82.4	0.0	0.0	M	100.1
1/6/2021 9:00	9.9	127.0	-23.4	82.2	0.0	0.0	M	100.1
1/6/2021 10:00	8.5	121.9	-23.8	81.9	0.0	0.0	M	100.1
1/6/2021 11:00	8.5	110.4	-23.4	82.5	0.5	0.0	M	99.9
1/6/2021 12:00	11.4	131.0	-23.4	82.5	2.1	0.0	M	99.8
1/6/2021 13:00	11.5	132.0	-22.1	83.6	2.6	0.0	M	99.7
1/6/2021 14:00	10.4	127.3	-21.8	84.0	1.5	0.0	M	99.7
1/6/2021 15:00	8.3	137.7	-20.9	84.8	0.1	0.0	M	99.5
1/6/2021 16:00	9.0	141.6	-20.0	85.7	0.0	0.0	M	99.4
1/6/2021 17:00	7.8	143.1	-18.9	86.5	0.0	0.0	M	99.3
1/6/2021 18:00	11.0	147.5	-18.0	87.3	0.0	0.0	M	99.2
1/6/2021 19:00	9.5	143.8	-17.2	88.0	0.0	0.0	M	99.1
1/6/2021 20:00	8.3	142.9	-15.9	89.0	0.0	0.0	M	99.1
1/6/2021 21:00	9.2	152.2	-14.4	89.9	0.0	0.0	M	99.0
1/6/2021 22:00	9.0	144.5	-13.9	89.8	0.0	0.0	M	99.0
1/6/2021 23:00	8.4	147.1	-13.5	90.6	0.0	0.0	M	98.9
1/7/2021 0:00	9.1	142.1	-13.0	91.4	0.0	0.0	M	98.9
1/7/2021 1:00	8.0	136.7	-13.1	90.8	0.0	0.0	M	98.8
1/7/2021 2:00	7.6	130.7	-13.9	89.4	0.0	0.0	M	98.7
1/7/2021 3:00	5.4	130.0	-13.7	89.7	0.0	0.0	M	98.7
1/7/2021 4:00	3.9	135.6	-13.2	90.7	0.0	0.0	M	98.7
1/7/2021 5:00	2.9	146.1	-13.1	91.2	0.0	0.0	M	98.7
1/7/2021 6:00	0.7	178.9	-13.0	91.3	0.0	0.0	M	98.6
1/7/2021 7:00	2.0	261.3	-13.2	91.1	0.0	0.0	M	98.7
1/7/2021 8:00	4.7	258.4	-12.9	91.4	0.0	0.0	M	98.7
1/7/2021 9:00	6.8	260.1	-13.8	90.6	0.0	0.0	M	98.7
1/7/2021 10:00	8.2	259.1	-14.2	90.1	0.0	0.0	M	98.8
1/7/2021 11:00	8.1	259.7	-13.9	90.7	1.4	0.0	M	98.8
1/7/2021 12:00	8.6	264.9	-13.7	90.7	5.6	0.0	M	98.9
1/7/2021 13:00	8.4	274.3	-13.9	90.5	3.7	0.0	M	99.0
1/7/2021 14:00	8.6	279.6	-14.2	89.8	2.0	0.0	M	99.1
1/7/2021 15:00	8.4	283.4	-15.2	88.3	0.3	0.0	M	99.3
1/7/2021 16:00	9.4	288.0	-15.2	87.9	0.0	0.0	M	99.4
1/7/2021 17:00	10.2	292.7	-15.5	87.8	0.0	0.0	M	99.5
1/7/2021 18:00	10.6	284.2	-16.3	87.3	0.0	0.0	M	99.7
1/7/2021 19:00	12.1	284.5	-17.4	86.7	0.0	0.0	M	99.8
1/7/2021 20:00	12.3	282.0	-18.2	85.9	0.0	0.0	M	99.8
1/7/2021 21:00	12.0	278.5	-19.1	85.5	0.0	0.0	M	100.0
1/7/2021 22:00	12.5	272.2	-20.1	84.8	0.0	0.0	M	100.0
1/7/2021 23:00	12.8	277.1	-21.0	83.7	0.0	0.0	M	100.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/8/2021 0:00	11.9	275.6	-21.8	82.5	0.0	0.0	M	100.2
1/8/2021 1:00	10.7	279.4	-22.7	81.5	0.0	0.0	M	100.4
1/8/2021 2:00	10.4	274.0	-23.3	80.8	0.0	0.0	M	100.5
1/8/2021 3:00	10.9	276.4	-23.6	80.4	0.0	0.0	M	100.6
1/8/2021 4:00	10.4	271.8	-24.1	79.9	0.0	0.0	M	100.7
1/8/2021 5:00	8.7	271.7	-24.2	79.3	0.0	0.0	M	100.8
1/8/2021 6:00	7.6	270.1	-24.5	79.3	0.0	0.0	M	100.9
1/8/2021 7:00	5.0	284.0	-24.5	79.7	0.0	0.0	M	100.9
1/8/2021 8:00	4.6	283.0	-24.4	79.5	0.0	0.0	M	100.9
1/8/2021 9:00	1.5	222.1	-24.7	79.4	0.0	0.0	M	100.9
1/8/2021 10:00	1.0	141.7	-24.8	80.4	0.1	0.0	M	100.9
1/8/2021 11:00	0.9	146.8	-26.2	80.0	3.2	0.0	M	100.9
1/8/2021 12:00	0.8	143.7	-26.0	80.0	6.1	0.0	M	100.9
1/8/2021 13:00	0.9	98.2	-25.4	80.3	6.3	0.0	M	100.9
1/8/2021 14:00	0.9	77.3	-25.9	80.3	4.5	0.0	M	100.9
1/8/2021 15:00	0.8	68.7	-26.0	80.3	1.0	0.0	M	100.8
1/8/2021 16:00	1.0	48.5	-25.8	80.5	0.0	0.0	M	100.8
1/8/2021 17:00	0.9	62.1	-25.1	80.8	0.0	0.0	M	100.8
1/8/2021 18:00	1.1	51.1	-24.9	81.0	0.0	0.0	M	100.8
1/8/2021 19:00	0.9	53.5	-24.9	81.3	0.0	0.0	M	100.8
1/8/2021 20:00	0.8	64.3	-24.8	81.1	0.0	0.0	M	100.8
1/8/2021 21:00	0.7	69.1	-25.0	81.2	0.0	0.0	M	100.7
1/8/2021 22:00	0.7	62.5	-25.1	81.1	0.0	0.0	M	100.7
1/8/2021 23:00	1.1	61.0	-25.0	81.2	0.0	0.0	M	100.7
1/9/2021 0:00	1.2	59.2	-25.2	81.1	0.0	0.0	M	100.7
1/9/2021 1:00	1.0	56.9	-25.2	81.1	0.0	0.0	M	100.7
1/9/2021 2:00	1.1	57.6	-25.0	81.1	0.0	0.0	M	100.7
1/9/2021 3:00	0.8	58.9	-24.9	81.1	0.0	0.0	M	100.7
1/9/2021 4:00	0.3	28.0	-25.1	80.9	0.0	0.0	M	100.7
1/9/2021 5:00	0.3	32.1	-25.1	80.9	0.0	0.0	M	100.7
1/9/2021 6:00	C	C	-24.9	81.1	0.0	0.0	M	100.7
1/9/2021 7:00	1.0	53.3	-25.4	80.7	0.0	0.0	M	100.7
1/9/2021 8:00	1.2	50.8	-25.5	80.8	0.0	0.0	M	100.7
1/9/2021 9:00	1.5	50.1	-25.9	80.2	0.0	0.0	M	100.7
1/9/2021 10:00	1.4	65.8	-26.5	79.9	0.1	0.0	M	100.6
1/9/2021 11:00	1.0	67.0	-26.1	80.1	2.2	0.0	M	100.7
1/9/2021 12:00	1.6	90.1	-25.6	80.5	5.1	0.0	M	100.7
1/9/2021 13:00	1.6	102.1	-24.9	81.6	5.2	0.0	M	100.6
1/9/2021 14:00	1.8	86.2	-24.2	81.9	2.8	0.0	M	100.6
1/9/2021 15:00	2.7	91.0	-23.3	82.8	0.3	0.0	M	100.6
1/9/2021 16:00	3.5	93.0	-22.8	83.2	0.0	0.0	M	100.7
1/9/2021 17:00	3.5	89.0	-22.9	82.9	0.0	0.0	M	100.7
1/9/2021 18:00	4.9	89.8	-22.6	83.3	0.0	0.0	M	100.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/9/2021 19:00	5.8	90.3	-22.3	83.5	0.0	0.0	M	100.6
1/9/2021 20:00	6.2	95.7	-21.9	83.6	0.0	0.0	M	100.5
1/9/2021 21:00	5.0	95.4	-22.7	82.5	0.0	0.0	M	100.5
1/9/2021 22:00	3.9	87.9	-25.2	80.5	0.0	0.0	M	100.5
1/9/2021 23:00	3.7	89.7	-26.2	80.0	0.0	0.0	M	100.5
1/10/2021 0:00	2.8	86.9	-26.7	79.1	0.0	0.0	M	100.6
1/10/2021 1:00	3.7	84.1	-27.6	78.5	0.0	0.0	M	100.6
1/10/2021 2:00	2.7	103.5	-27.0	79.2	0.0	0.0	M	100.6
1/10/2021 3:00	2.4	87.9	-27.5	78.4	0.0	0.0	M	100.6
1/10/2021 4:00	2.5	79.6	-27.8	78.3	0.0	0.0	M	100.6
1/10/2021 5:00	3.3	93.0	-27.1	79.4	0.0	0.0	M	100.6
1/10/2021 6:00	3.4	107.3	-25.1	80.8	0.0	0.0	M	100.6
1/10/2021 7:00	2.5	108.9	-24.6	81.1	0.0	0.0	M	100.6
1/10/2021 8:00	2.3	106.2	-24.6	81.1	0.0	0.0	M	100.6
1/10/2021 9:00	2.1	105.9	-24.0	81.7	0.0	0.0	M	100.6
1/10/2021 10:00	1.8	117.1	-23.4	82.3	0.0	0.0	M	100.5
1/10/2021 11:00	1.6	115.3	-23.1	82.5	0.5	0.0	M	100.4
1/10/2021 12:00	1.5	100.9	-23.8	81.6	2.1	0.0	M	100.4
1/10/2021 13:00	1.7	95.3	-24.0	81.6	3.0	0.0	M	100.4
1/10/2021 14:00	2.1	81.4	-24.7	81.3	1.7	0.0	M	100.3
1/10/2021 15:00	1.7	97.7	-24.1	81.9	0.1	0.0	M	100.4
1/10/2021 16:00	1.7	103.7	-22.8	82.8	0.0	0.0	M	100.4
1/10/2021 17:00	2.1	96.6	-22.5	83.1	0.0	0.0	M	100.3
1/10/2021 18:00	2.6	99.8	-21.5	84.2	0.0	0.0	M	100.3
1/10/2021 19:00	2.3	110.0	-20.5	85.1	0.0	0.0	M	100.3
1/10/2021 20:00	2.4	113.0	-20.6	84.8	0.0	0.0	M	100.2
1/10/2021 21:00	2.7	110.4	-20.7	84.9	0.0	0.0	M	100.2
1/10/2021 22:00	2.7	113.7	-20.5	85.0	0.0	0.0	M	100.2
1/10/2021 23:00	3.1	114.1	-20.8	85.0	0.0	0.0	M	100.1
1/11/2021 0:00	4.0	115.2	-21.1	84.2	0.0	0.0	M	100.1
1/11/2021 1:00	4.4	114.0	-21.3	84.4	0.0	0.0	M	100.1
1/11/2021 2:00	4.4	118.0	-21.7	84.0	0.0	0.0	M	100.1
1/11/2021 3:00	5.4	110.7	-21.7	83.7	0.0	0.0	M	100.1
1/11/2021 4:00	6.5	104.6	-22.2	83.7	0.0	0.0	M	100.0
1/11/2021 5:00	5.6	102.4	-23.2	82.6	0.0	0.0	M	99.9
1/11/2021 6:00	6.1	99.8	-23.3	82.2	0.0	0.0	M	99.8
1/11/2021 7:00	6.5	106.4	-23.4	82.7	0.0	0.0	M	99.8
1/11/2021 8:00	6.6	111.1	-23.3	82.7	0.0	0.0	M	99.7
1/11/2021 9:00	7.3	111.6	-23.2	82.4	0.0	0.0	M	99.7
1/11/2021 10:00	6.9	112.5	-23.4	82.4	0.0	0.0	M	99.7
1/11/2021 11:00	6.6	108.6	-22.1	83.6	0.3	0.0	M	99.6
1/11/2021 12:00	6.1	115.3	-22.8	83.0	1.1	0.0	M	99.5
1/11/2021 13:00	6.3	113.7	-22.1	83.5	2.1	0.0	M	99.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/11/2021 14:00	7.4	110.3	-21.8	83.7	1.8	0.0	M	99.4
1/11/2021 15:00	8.3	106.2	-21.2	84.6	0.3	0.0	M	99.4
1/11/2021 16:00	8.8	99.9	-20.6	85.0	0.0	0.0	M	99.3
1/11/2021 17:00	9.2	98.4	-20.7	84.9	0.0	0.0	M	99.3
1/11/2021 18:00	9.3	98.4	-20.6	85.2	0.0	0.0	M	99.2
1/11/2021 19:00	9.8	102.6	-19.7	85.9	0.0	0.0	M	99.2
1/11/2021 20:00	8.9	98.5	-19.5	86.0	0.0	0.0	M	99.2
1/11/2021 21:00	8.6	98.4	-19.2	86.3	0.0	0.0	M	99.1
1/11/2021 22:00	8.4	92.9	-19.5	86.0	0.0	0.0	M	99.1
1/11/2021 23:00	8.1	93.2	-19.7	85.9	0.0	0.0	M	99.1
1/12/2021 0:00	8.0	96.5	-19.4	86.3	0.0	0.0	M	99.1
1/12/2021 1:00	7.7	101.1	-18.4	86.8	0.0	0.0	M	99.0
1/12/2021 2:00	7.9	98.3	-18.4	87.0	0.0	0.0	M	99.0
1/12/2021 3:00	7.4	90.1	-19.0	86.4	0.0	0.0	M	99.0
1/12/2021 4:00	7.5	84.7	-19.1	86.4	0.0	0.0	M	99.0
1/12/2021 5:00	7.6	87.9	-18.8	86.8	0.0	0.0	M	98.9
1/12/2021 6:00	8.1	89.6	-18.0	87.4	0.0	0.0	M	98.9
1/12/2021 7:00	8.1	94.5	-17.3	88.0	0.0	0.0	M	98.9
1/12/2021 8:00	8.4	90.4	-17.3	87.8	0.0	0.0	M	98.8
1/12/2021 9:00	8.5	85.6	-17.6	87.8	0.0	0.0	M	98.7
1/12/2021 10:00	8.8	86.6	-17.3	88.0	0.0	0.0	M	98.7
1/12/2021 11:00	7.8	90.7	-16.4	88.7	1.4	0.0	M	98.7
1/12/2021 12:00	6.4	91.3	-15.7	89.4	1.3	0.0	M	98.6
1/12/2021 13:00	4.8	100.6	-14.6	90.1	1.8	0.0	M	98.6
1/12/2021 14:00	3.5	106.2	-14.0	90.5	0.7	0.0	M	98.6
1/12/2021 15:00	3.9	115.3	-13.7	90.8	0.0	0.0	M	98.6
1/12/2021 16:00	3.9	113.0	-13.6	90.8	0.0	0.0	M	98.5
1/12/2021 17:00	3.6	110.4	-14.0	90.6	0.0	0.0	M	98.5
1/12/2021 18:00	3.6	88.5	-14.6	90.1	0.0	0.0	M	98.4
1/12/2021 19:00	1.9	82.1	-15.0	89.6	0.0	0.0	M	98.4
1/12/2021 20:00	2.0	70.5	-15.3	89.4	0.0	0.0	M	98.4
1/12/2021 21:00	2.4	49.8	-15.6	89.2	0.0	0.0	M	98.3
1/12/2021 22:00	2.6	338.4	-16.0	89.0	0.0	0.0	M	98.3
1/12/2021 23:00	8.4	262.8	-16.4	88.8	0.0	0.0	M	98.2
1/13/2021 0:00	8.8	269.7	-16.7	88.6	0.0	0.0	M	98.3
1/13/2021 1:00	7.8	263.7	-17.3	88.0	0.0	0.0	M	98.3
1/13/2021 2:00	10.3	259.9	-17.8	87.6	0.0	0.0	M	98.3
1/13/2021 3:00	12.0	258.6	-18.5	87.0	0.0	0.0	M	98.3
1/13/2021 4:00	9.2	260.5	-18.9	87.0	0.0	0.0	M	98.4
1/13/2021 5:00	6.2	274.2	-18.8	86.7	0.0	0.0	M	98.4
1/13/2021 6:00	7.1	273.7	-20.1	85.7	0.0	0.0	M	98.5
1/13/2021 7:00	7.1	270.8	-21.5	84.5	0.0	0.0	M	98.6
1/13/2021 8:00	6.1	280.7	-21.8	84.2	0.0	0.0	M	98.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/13/2021 9:00	5.9	285.1	-22.5	83.6	0.0	0.0	M	98.7
1/13/2021 10:00	5.7	291.5	-23.0	83.1	0.1	0.0	M	98.7
1/13/2021 11:00	7.2	289.3	-23.5	82.7	2.5	0.0	M	98.8
1/13/2021 12:00	8.8	292.2	-23.4	82.9	6.0	0.0	M	98.9
1/13/2021 13:00	7.4	301.6	-23.6	82.4	8.1	0.0	M	99.0
1/13/2021 14:00	5.8	291.8	-24.1	82.1	5.1	0.0	M	99.1
1/13/2021 15:00	5.9	276.9	-24.3	81.8	1.1	0.0	M	99.2
1/13/2021 16:00	6.4	268.2	-24.0	82.3	0.0	0.0	M	99.4
1/13/2021 17:00	7.8	265.5	-23.3	83.0	0.0	0.0	M	99.4
1/13/2021 18:00	7.9	270.9	-21.3	84.8	0.0	0.0	M	99.5
1/13/2021 19:00	8.7	279.8	-20.0	85.7	0.0	0.0	M	99.5
1/13/2021 20:00	10.1	287.7	-19.7	85.8	0.0	0.0	M	99.6
1/13/2021 21:00	11.7	289.6	-19.6	85.9	0.0	0.0	M	99.7
1/13/2021 22:00	10.0	289.3	-19.6	85.8	0.0	0.0	M	99.8
1/13/2021 23:00	9.8	281.9	-19.5	85.6	0.0	0.0	M	99.9
1/14/2021 0:00	10.0	282.6	-19.5	85.3	0.0	0.0	M	100.1
1/14/2021 1:00	9.8	280.1	-19.5	85.3	0.0	0.0	M	100.2
1/14/2021 2:00	9.4	280.1	-19.6	84.8	0.0	0.0	M	100.3
1/14/2021 3:00	10.0	280.0	-19.6	84.4	0.0	0.0	M	100.4
1/14/2021 4:00	10.4	280.6	-19.7	83.9	0.0	0.0	M	100.5
1/14/2021 5:00	10.3	280.7	-20.0	83.3	0.0	0.0	M	100.5
1/14/2021 6:00	11.2	275.4	-20.3	83.0	0.0	0.0	M	100.7
1/14/2021 7:00	12.0	279.0	-21.2	81.4	0.0	0.0	M	100.7
1/14/2021 8:00	10.9	281.5	-22.5	80.3	0.0	0.0	M	100.8
1/14/2021 9:00	12.0	269.7	-23.4	80.7	0.0	0.0	M	100.8
1/14/2021 10:00	13.8	265.2	-24.1	80.5	0.4	0.0	M	100.8
1/14/2021 11:00	13.3	269.8	-24.7	80.1	4.2	0.0	M	100.9
1/14/2021 12:00	11.9	268.7	-24.8	79.5	10.2	0.0	M	101.1
1/14/2021 13:00	10.7	273.5	-25.1	79.3	11.5	0.0	M	101.1
1/14/2021 14:00	10.5	269.0	-25.2	79.2	7.3	0.0	M	101.1
1/14/2021 15:00	13.6	266.7	-24.6	79.2	2.0	0.0	M	101.1
1/14/2021 16:00	10.7	264.0	-24.8	79.9	0.0	0.0	M	101.2
1/14/2021 17:00	12.3	264.9	-24.6	80.2	0.0	0.0	M	101.2
1/14/2021 18:00	13.4	266.7	-24.5	80.4	0.0	0.0	M	101.2
1/14/2021 19:00	10.5	275.3	-25.2	80.5	0.0	0.0	M	101.2
1/14/2021 20:00	9.4	275.1	-25.7	80.0	0.0	0.0	M	101.2
1/14/2021 21:00	10.0	272.1	-26.2	78.9	0.0	0.0	M	101.2
1/14/2021 22:00	9.9	268.7	-26.5	78.2	0.0	0.0	M	101.3
1/14/2021 23:00	10.2	272.1	-26.9	78.0	0.0	0.0	M	101.2
1/15/2021 0:00	11.9	276.2	-27.1	77.7	0.0	0.0	M	101.3
1/15/2021 1:00	10.2	278.0	-27.1	77.9	0.0	0.0	M	101.3
1/15/2021 2:00	10.7	270.6	-27.3	77.5	0.0	0.0	M	101.3
1/15/2021 3:00	10.5	269.5	-27.5	77.3	0.0	0.0	M	101.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/15/2021 4:00	9.2	277.0	-27.7	77.5	0.0	0.0	M	101.3
1/15/2021 5:00	9.2	278.2	-27.7	78.0	0.0	0.0	M	101.4
1/15/2021 6:00	9.9	281.1	-27.2	78.7	0.0	0.0	M	101.3
1/15/2021 7:00	9.0	285.5	-26.1	79.5	0.0	0.0	M	101.4
1/15/2021 8:00	9.3	280.8	-25.8	79.7	0.0	0.0	M	101.3
1/15/2021 9:00	10.6	280.1	-25.3	80.2	0.0	0.0	M	101.3
1/15/2021 10:00	10.9	283.4	-24.9	80.4	0.2	0.0	M	101.3
1/15/2021 11:00	10.8	280.9	-24.8	80.3	3.0	0.0	M	101.3
1/15/2021 12:00	9.3	279.5	-24.4	80.8	6.0	0.0	M	101.3
1/15/2021 13:00	9.7	278.0	-24.1	81.3	7.3	0.0	M	101.3
1/15/2021 14:00	10.8	280.9	-23.8	81.7	5.2	0.0	M	101.3
1/15/2021 15:00	10.4	282.4	-23.6	81.9	1.5	0.0	M	101.4
1/15/2021 16:00	11.0	282.1	-23.5	81.9	0.0	0.0	M	101.4
1/15/2021 17:00	10.9	284.3	-23.2	82.4	0.0	0.0	M	101.4
1/15/2021 18:00	8.2	288.3	-22.9	82.5	0.0	0.0	M	101.4
1/15/2021 19:00	7.8	286.0	-22.7	82.6	0.0	0.0	M	101.4
1/15/2021 20:00	7.5	290.6	-22.6	83.0	0.0	0.0	M	101.4
1/15/2021 21:00	8.5	289.6	-22.6	83.1	0.0	0.0	M	101.4
1/15/2021 22:00	6.7	292.4	-22.5	83.3	0.0	0.0	M	101.4
1/15/2021 23:00	6.2	298.6	-22.3	84.0	0.0	0.0	M	101.5
1/16/2021 0:00	4.3	292.3	-22.2	83.9	0.0	0.0	M	101.5
1/16/2021 1:00	4.0	289.7	-22.1	84.0	0.0	0.0	M	101.5
1/16/2021 2:00	5.0	281.7	-22.0	84.0	0.0	0.0	M	101.5
1/16/2021 3:00	6.7	281.5	-22.1	83.8	0.0	0.0	M	101.6
1/16/2021 4:00	7.0	279.4	-22.2	83.6	0.0	0.0	M	101.6
1/16/2021 5:00	5.9	280.8	-22.3	83.5	0.0	0.0	M	101.6
1/16/2021 6:00	4.5	289.0	-22.3	83.5	0.0	0.0	M	101.6
1/16/2021 7:00	4.8	284.9	-22.4	83.3	0.0	0.0	M	101.7
1/16/2021 8:00	5.8	283.3	-22.5	83.2	0.0	0.0	M	101.7
1/16/2021 9:00	7.0	277.6	-22.4	82.8	0.0	0.0	M	101.7
1/16/2021 10:00	7.3	270.8	-22.4	82.6	0.3	0.0	M	101.7
1/16/2021 11:00	6.4	268.4	-22.3	82.4	3.3	0.0	M	101.7
1/16/2021 12:00	5.9	262.4	-22.2	82.7	6.2	0.0	M	101.8
1/16/2021 13:00	5.3	263.3	-21.9	82.8	7.8	0.0	M	101.8
1/16/2021 14:00	5.5	274.8	-21.9	82.8	5.6	0.0	M	101.8
1/16/2021 15:00	5.1	276.0	-21.8	83.5	1.9	0.0	M	101.8
1/16/2021 16:00	4.1	280.1	-21.6	83.5	0.0	0.0	M	101.8
1/16/2021 17:00	3.4	278.5	-21.7	82.8	0.0	0.0	M	101.8
1/16/2021 18:00	2.8	289.7	-21.7	83.2	0.0	0.0	M	101.8
1/16/2021 19:00	2.6	296.2	-21.8	83.7	0.0	0.0	M	101.7
1/16/2021 20:00	2.8	322.3	-22.1	83.2	0.0	0.0	M	101.7
1/16/2021 21:00	3.0	347.6	-22.5	83.3	0.0	0.0	M	101.6
1/16/2021 22:00	2.8	354.7	-22.6	82.9	0.0	0.0	M	101.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/16/2021 23:00	2.1	4.9	-22.8	81.9	0.0	0.0	M	101.6
1/17/2021 0:00	0.6	276.9	-22.9	81.4	0.0	0.0	M	101.6
1/17/2021 1:00	0.9	8.4	-23.1	81.8	0.0	0.0	M	101.6
1/17/2021 2:00	2.2	335.3	-23.5	80.9	0.0	0.0	M	101.6
1/17/2021 3:00	1.6	282.2	-24.5	81.3	0.0	0.0	M	101.6
1/17/2021 4:00	2.0	263.1	-25.6	80.8	0.0	0.0	M	101.6
1/17/2021 5:00	1.8	290.8	-26.6	80.0	0.0	0.0	M	101.6
1/17/2021 6:00	1.1	295.2	-26.7	79.7	0.0	0.0	M	101.5
1/17/2021 7:00	0.8	270.6	-27.5	78.6	0.0	0.0	M	101.5
1/17/2021 8:00	0.1	242.3	-28.2	78.0	0.0	0.0	M	101.5
1/17/2021 9:00	C	C	-28.8	77.1	0.0	0.0	M	101.5
1/17/2021 10:00	0.1	87.3	-29.5	76.6	0.6	0.0	M	101.5
1/17/2021 11:00	0.3	42.3	-30.1	76.0	5.4	0.0	M	101.5
1/17/2021 12:00	0.1	148.7	-28.7	76.9	25.3	0.0	M	101.5
1/17/2021 13:00	0.1	116.6	-29.2	76.2	18.8	0.0	M	101.6
1/17/2021 14:00	0.3	67.9	-29.9	75.8	8.8	0.0	M	101.6
1/17/2021 15:00	0.3	95.1	-29.9	76.1	2.0	0.0	M	101.6
1/17/2021 16:00	0.1	86.0	-30.2	75.7	0.0	0.0	M	101.7
1/17/2021 17:00	0.6	231.9	-30.3	75.8	0.0	0.0	M	101.7
1/17/2021 18:00	1.0	270.1	-29.7	76.4	0.0	0.0	M	101.8
1/17/2021 19:00	0.6	265.6	-31.0	74.8	0.0	0.0	M	101.8
1/17/2021 20:00	1.4	290.9	-30.5	75.7	0.0	0.0	M	101.8
1/17/2021 21:00	0.4	281.8	-31.3	74.3	0.0	0.0	M	101.9
1/17/2021 22:00	1.7	272.9	-30.8	75.4	0.0	0.0	M	101.9
1/17/2021 23:00	1.9	293.7	-31.6	74.4	0.0	0.0	M	102.0
1/18/2021 0:00	1.9	290.9	-31.6	74.6	0.0	0.0	M	102.0
1/18/2021 1:00	2.4	268.4	-31.3	74.8	0.0	0.0	M	102.1
1/18/2021 2:00	2.9	277.4	-31.5	74.6	0.0	0.0	M	102.1
1/18/2021 3:00	3.3	281.9	-31.2	75.0	0.0	0.0	M	102.2
1/18/2021 4:00	4.3	287.6	-31.4	74.5	0.0	0.0	M	102.2
1/18/2021 5:00	3.8	277.9	-31.6	74.4	0.0	0.0	M	102.3
1/18/2021 6:00	3.6	281.7	-31.3	74.8	0.0	0.0	M	102.3
1/18/2021 7:00	2.9	281.0	-31.1	75.0	0.0	0.0	M	102.3
1/18/2021 8:00	2.1	270.7	-31.6	74.2	0.0	0.0	M	102.4
1/18/2021 9:00	1.2	265.4	-32.3	73.6	0.0	0.0	M	102.4
1/18/2021 10:00	1.2	277.8	-32.6	73.3	0.6	0.0	M	102.4
1/18/2021 11:00	3.0	287.4	-32.1	73.8	6.4	0.0	M	102.4
1/18/2021 12:00	5.6	287.0	-31.4	74.0	22.5	0.0	M	102.4
1/18/2021 13:00	5.7	286.2	-30.9	74.7	21.2	0.0	M	102.4
1/18/2021 14:00	4.8	284.5	-30.3	75.6	6.5	0.0	M	102.4
1/18/2021 15:00	4.8	283.8	-29.6	76.4	2.0	0.0	M	102.4
1/18/2021 16:00	4.8	279.3	-28.8	77.1	0.0	0.0	M	102.4
1/18/2021 17:00	4.4	282.2	-28.2	77.6	0.0	0.0	M	102.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/18/2021 18:00	4.2	283.6	-27.9	77.9	0.0	0.0	M	102.3
1/18/2021 19:00	3.1	285.9	-27.8	77.9	0.0	0.0	M	102.2
1/18/2021 20:00	2.5	288.9	-27.7	78.0	0.0	0.0	M	102.1
1/18/2021 21:00	1.9	287.3	-27.6	78.1	0.0	0.0	M	102.1
1/18/2021 22:00	1.1	276.5	-27.4	78.2	0.0	0.0	M	102.0
1/18/2021 23:00	1.3	144.1	-26.8	79.0	0.0	0.0	M	101.8
1/19/2021 0:00	1.6	146.5	-27.2	78.6	0.0	0.0	M	101.7
1/19/2021 1:00	1.2	125.5	-27.2	78.4	0.0	0.0	M	101.6
1/19/2021 2:00	1.5	136.0	-27.3	78.4	0.0	0.0	M	101.5
1/19/2021 3:00	1.9	128.3	-26.4	79.3	0.0	0.0	M	101.4
1/19/2021 4:00	3.3	125.8	-26.9	78.8	0.0	0.0	M	101.2
1/19/2021 5:00	4.3	119.8	-26.4	79.5	0.0	0.0	M	101.0
1/19/2021 6:00	4.0	115.0	-25.4	80.1	0.0	0.0	M	100.9
1/19/2021 7:00	3.8	109.7	-26.5	79.4	0.0	0.0	M	100.7
1/19/2021 8:00	3.6	106.4	-26.8	78.9	0.0	0.0	M	100.6
1/19/2021 9:00	4.0	103.6	-26.6	79.0	0.0	0.0	M	100.4
1/19/2021 10:00	4.1	107.4	-27.4	78.3	0.2	0.0	M	100.3
1/19/2021 11:00	4.6	105.2	-28.2	77.2	2.7	0.0	M	100.2
1/19/2021 12:00	4.4	91.5	-30.1	75.5	5.3	0.0	M	100.1
1/19/2021 13:00	4.3	94.3	-30.1	76.0	6.0	0.0	M	100.1
1/19/2021 14:00	3.8	93.1	-30.0	76.0	3.8	0.0	M	100.0
1/19/2021 15:00	3.6	94.9	-29.4	76.2	0.7	0.0	M	100.0
1/19/2021 16:00	3.7	91.8	-29.6	76.5	0.0	0.0	M	99.9
1/19/2021 17:00	4.3	93.0	-29.0	76.6	0.0	0.0	M	99.9
1/19/2021 18:00	4.2	87.4	-29.4	76.4	0.0	0.0	M	99.9
1/19/2021 19:00	3.7	88.7	-29.3	76.4	0.0	0.0	M	100.0
1/19/2021 20:00	2.7	86.5	-30.0	75.7	0.0	0.0	M	100.0
1/19/2021 21:00	4.1	88.0	-30.4	75.5	0.0	0.0	M	100.1
1/19/2021 22:00	3.9	102.9	-29.9	76.0	0.0	0.0	M	100.2
1/19/2021 23:00	4.7	109.6	-28.5	77.3	0.0	0.0	M	100.2
1/20/2021 0:00	4.9	122.0	-29.6	75.9	0.0	0.0	M	100.2
1/20/2021 1:00	4.8	119.5	-28.3	77.8	0.0	0.0	M	100.3
1/20/2021 2:00	4.0	117.7	-26.6	78.9	0.0	0.0	M	100.4
1/20/2021 3:00	3.2	127.6	-26.9	78.5	0.0	0.0	M	100.5
1/20/2021 4:00	3.4	122.6	-25.9	79.6	0.0	0.0	M	100.5
1/20/2021 5:00	3.0	129.3	-26.1	79.6	0.0	0.0	M	100.6
1/20/2021 6:00	2.1	130.0	-25.6	79.9	0.0	0.0	M	100.6
1/20/2021 7:00	2.0	133.1	-25.7	79.9	0.0	0.0	M	100.6
1/20/2021 8:00	1.8	134.6	-25.7	79.9	0.0	0.0	M	100.7
1/20/2021 9:00	1.1	134.1	-25.3	80.1	0.0	0.0	M	100.7
1/20/2021 10:00	1.0	119.7	-25.2	80.3	0.0	0.0	M	100.8
1/20/2021 11:00	1.2	103.0	-25.6	79.9	1.3	0.0	M	100.8
1/20/2021 12:00	0.9	94.0	-25.8	79.8	3.6	0.0	M	100.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/20/2021 13:00	1.1	98.2	-25.5	80.0	4.4	0.0	M	100.9
1/20/2021 14:00	1.2	88.6	-25.5	79.9	3.0	0.0	M	100.9
1/20/2021 15:00	0.8	150.5	-25.4	80.1	0.9	0.0	M	101.0
1/20/2021 16:00	0.6	152.7	-25.3	80.1	0.0	0.0	M	101.0
1/20/2021 17:00	0.2	123.4	-25.1	80.2	0.0	0.0	M	101.1
1/20/2021 18:00	C	C	-25.1	80.1	0.0	0.0	M	101.1
1/20/2021 19:00	0.1	271.2	-25.2	80.0	0.0	0.0	M	101.2
1/20/2021 20:00	0.3	277.8	-25.2	80.0	0.0	0.0	M	101.2
1/20/2021 21:00	0.8	278.3	-25.1	80.3	0.0	0.0	M	101.2
1/20/2021 22:00	1.7	280.3	-25.5	79.9	0.0	0.0	M	101.2
1/20/2021 23:00	2.1	299.3	-26.4	79.2	0.0	0.0	M	101.3
1/21/2021 0:00	2.1	291.8	-27.2	78.5	0.0	0.0	M	101.3
1/21/2021 1:00	3.0	293.7	-27.1	78.7	0.0	0.0	M	101.3
1/21/2021 2:00	4.6	286.2	-26.9	78.9	0.0	0.0	M	101.4
1/21/2021 3:00	6.2	284.2	-26.8	79.0	0.0	0.0	M	101.4
1/21/2021 4:00	5.3	283.2	-27.4	78.4	0.0	0.0	M	101.5
1/21/2021 5:00	5.6	283.1	-28.3	77.6	0.0	0.0	M	101.5
1/21/2021 6:00	6.2	284.9	-28.3	77.7	0.0	0.0	M	101.5
1/21/2021 7:00	8.4	277.0	-28.3	77.8	0.0	0.0	M	101.5
1/21/2021 8:00	8.5	277.9	-27.8	78.3	0.0	0.0	M	101.6
1/21/2021 9:00	7.2	277.8	-27.1	78.9	0.0	0.0	M	101.6
1/21/2021 10:00	8.5	272.3	-26.8	79.2	0.3	0.0	M	101.6
1/21/2021 11:00	7.3	275.1	-26.3	79.5	2.8	0.0	M	101.7
1/21/2021 12:00	6.8	263.1	-26.1	79.6	7.8	0.0	M	101.7
1/21/2021 13:00	5.8	255.7	-26.2	79.5	10.5	0.0	M	101.8
1/21/2021 14:00	5.9	257.9	-26.1	79.8	4.6	0.0	M	101.8
1/21/2021 15:00	3.7	289.8	-25.6	80.2	2.0	0.0	M	101.8
1/21/2021 16:00	3.0	290.9	-25.5	80.1	0.1	0.0	M	101.8
1/21/2021 17:00	3.5	256.6	-25.1	80.7	0.0	0.0	M	101.8
1/21/2021 18:00	3.7	258.8	-25.2	80.5	0.0	0.0	M	101.8
1/21/2021 19:00	3.9	267.1	-25.0	80.8	0.0	0.0	M	101.8
1/21/2021 20:00	4.8	259.4	-24.8	80.9	0.0	0.0	M	101.8
1/21/2021 21:00	6.8	259.8	-24.6	81.2	0.0	0.0	M	101.8
1/21/2021 22:00	7.2	264.3	-23.2	82.8	0.0	0.0	M	101.7
1/21/2021 23:00	7.3	271.3	-22.7	83.0	0.0	0.0	M	101.8
1/22/2021 0:00	6.9	274.9	-22.6	83.0	0.0	0.0	M	101.8
1/22/2021 1:00	6.3	282.6	-22.5	83.1	0.0	0.0	M	101.8
1/22/2021 2:00	5.3	294.8	-22.6	83.0	0.0	0.0	M	101.8
1/22/2021 3:00	5.0	296.3	-22.6	83.0	0.0	0.0	M	101.8
1/22/2021 4:00	4.9	294.9	-22.5	83.2	0.0	0.0	M	101.8
1/22/2021 5:00	5.1	296.6	-22.2	83.4	0.0	0.0	M	101.8
1/22/2021 6:00	4.6	300.7	-22.2	83.4	0.0	0.0	M	101.8
1/22/2021 7:00	4.9	297.5	-22.1	83.5	0.0	0.0	M	101.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/22/2021 8:00	4.4	298.1	-22.0	83.7	0.0	0.0	M	101.8
1/22/2021 9:00	4.6	301.8	-21.8	83.8	0.0	0.0	M	101.8
1/22/2021 10:00	4.0	303.8	-21.8	83.9	0.4	0.0	M	101.7
1/22/2021 11:00	4.8	317.0	-21.9	83.7	3.1	0.0	M	101.8
1/22/2021 12:00	5.3	324.5	-22.5	83.3	6.2	0.0	M	101.7
1/22/2021 13:00	5.0	316.8	-22.8	83.0	7.7	0.0	M	101.7
1/22/2021 14:00	4.8	315.3	-22.9	82.9	5.6	0.0	M	101.7
1/22/2021 15:00	4.5	308.8	-22.9	82.9	2.4	0.0	M	101.7
1/22/2021 16:00	5.9	300.2	-22.9	82.9	0.1	0.0	M	101.6
1/22/2021 17:00	6.5	299.8	-22.8	83.0	0.0	0.0	M	101.6
1/22/2021 18:00	6.7	294.7	-23.1	82.6	0.0	0.0	M	101.6
1/22/2021 19:00	8.0	291.3	-22.9	83.0	0.0	0.0	M	101.5
1/22/2021 20:00	8.9	290.3	-22.7	83.1	0.0	0.0	M	101.4
1/22/2021 21:00	8.8	292.4	-22.5	83.3	0.0	0.0	M	101.3
1/22/2021 22:00	9.3	290.4	-22.5	83.3	0.0	0.0	M	101.3
1/22/2021 23:00	8.0	291.2	-22.6	83.2	0.0	0.0	M	101.3
1/23/2021 0:00	8.5	295.1	-21.9	84.0	0.0	0.0	M	101.2
1/23/2021 1:00	8.4	297.9	-21.4	84.3	0.0	0.0	M	101.2
1/23/2021 2:00	8.3	292.9	-21.3	84.4	0.0	0.0	M	101.2
1/23/2021 3:00	8.6	290.6	-21.1	84.6	0.0	0.0	M	101.2
1/23/2021 4:00	7.7	284.0	-20.6	85.1	0.0	0.0	M	101.1
1/23/2021 5:00	8.7	288.2	-20.0	85.6	0.0	0.0	M	101.0
1/23/2021 6:00	9.6	291.8	-19.5	86.0	0.0	0.0	M	101.0
1/23/2021 7:00	7.9	284.1	-19.2	86.3	0.0	0.0	M	101.0
1/23/2021 8:00	8.7	280.4	-18.8	86.7	0.0	0.0	M	101.0
1/23/2021 9:00	8.1	283.4	-18.3	87.1	0.0	0.0	M	101.0
1/23/2021 10:00	8.2	282.8	-18.2	87.1	1.4	0.0	M	100.9
1/23/2021 11:00	9.7	278.9	-18.2	87.2	7.2	0.0	M	100.9
1/23/2021 12:00	9.9	280.5	-17.9	87.5	15.2	0.0	M	100.8
1/23/2021 13:00	9.2	284.6	-17.4	88.0	15.9	0.0	M	100.9
1/23/2021 14:00	8.7	280.7	-17.1	88.1	12.2	0.0	M	100.9
1/23/2021 15:00	6.3	276.8	-17.0	88.2	4.8	0.0	M	101.0
1/23/2021 16:00	7.9	263.2	-16.9	88.4	0.3	0.0	M	101.0
1/23/2021 17:00	8.0	264.9	-16.8	88.4	0.0	0.0	M	101.0
1/23/2021 18:00	7.4	268.8	-16.9	88.4	0.0	0.0	M	101.1
1/23/2021 19:00	5.9	266.0	-16.8	88.4	0.0	0.0	M	101.2
1/23/2021 20:00	3.0	151.4	-16.4	88.7	0.0	0.0	M	101.2
1/23/2021 21:00	6.3	169.3	-17.0	88.1	0.0	0.0	M	101.3
1/23/2021 22:00	7.5	163.1	-17.8	87.5	0.0	0.0	M	101.4
1/23/2021 23:00	7.1	158.4	-19.5	85.6	0.0	0.0	M	101.5
1/24/2021 0:00	7.5	149.0	-23.1	82.8	0.0	0.0	M	101.6
1/24/2021 1:00	7.7	147.5	-24.4	81.4	0.0	0.0	M	101.7
1/24/2021 2:00	6.7	150.6	-25.5	80.0	0.0	0.0	M	101.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/24/2021 3:00	6.7	143.7	-26.3	79.2	0.0	0.0	M	102.0
1/24/2021 4:00	6.5	143.4	-26.9	78.4	0.0	0.0	M	102.1
1/24/2021 5:00	7.8	140.0	-27.0	77.9	0.0	0.0	M	102.2
1/24/2021 6:00	8.7	131.7	-27.7	76.9	0.0	0.0	M	102.3
1/24/2021 7:00	8.3	138.7	-28.6	76.2	0.0	0.0	M	102.4
1/24/2021 8:00	6.3	142.2	-29.3	75.6	0.0	0.0	M	102.5
1/24/2021 9:00	6.3	146.4	-29.7	75.1	0.0	0.0	M	102.6
1/24/2021 10:00	7.3	143.7	-30.0	74.7	2.4	0.0	M	102.7
1/24/2021 11:00	6.0	141.9	-30.3	73.9	20.9	0.0	M	102.8
1/24/2021 12:00	6.5	139.3	-30.4	73.2	44.4	0.0	M	102.8
1/24/2021 13:00	7.6	140.2	-30.2	72.7	51.4	0.0	M	102.9
1/24/2021 14:00	6.0	142.3	-30.7	73.1	27.7	0.0	M	103.0
1/24/2021 15:00	4.2	132.3	-30.6	75.3	7.7	0.0	M	103.0
1/24/2021 16:00	6.4	138.4	-31.5	73.4	1.0	0.0	M	103.1
1/24/2021 17:00	6.0	133.9	-31.8	72.7	0.0	0.0	M	103.1
1/24/2021 18:00	5.8	138.6	-31.9	72.7	0.0	0.0	M	103.2
1/24/2021 19:00	4.8	119.8	-31.2	74.5	0.0	0.0	M	103.3
1/24/2021 20:00	5.0	125.4	-31.2	74.6	0.0	0.0	M	103.3
1/24/2021 21:00	4.7	116.8	-30.9	75.1	0.0	0.0	M	103.3
1/24/2021 22:00	4.1	109.9	-31.8	74.0	0.0	0.0	M	103.3
1/24/2021 23:00	2.2	130.4	-31.8	74.2	0.0	0.0	M	103.4
1/25/2021 0:00	2.0	111.0	-32.1	73.7	0.0	0.0	M	103.4
1/25/2021 1:00	1.9	121.5	-31.8	73.8	0.0	0.0	M	103.5
1/25/2021 2:00	1.7	115.4	-32.9	72.9	0.0	0.0	M	103.5
1/25/2021 3:00	1.6	117.9	-33.0	73.1	0.0	0.0	M	103.5
1/25/2021 4:00	1.3	114.0	-32.9	72.6	0.0	0.0	M	103.6
1/25/2021 5:00	1.1	98.3	-33.6	72.1	0.0	0.0	M	103.5
1/25/2021 6:00	1.1	102.0	-33.7	71.9	0.0	0.0	M	103.5
1/25/2021 7:00	0.9	81.6	-34.3	71.5	0.0	0.0	M	103.6
1/25/2021 8:00	1.0	82.2	-34.3	71.4	0.0	0.0	M	103.5
1/25/2021 9:00	0.7	61.5	-34.6	71.1	0.0	0.0	M	103.6
1/25/2021 10:00	1.2	57.0	-35.1	70.6	1.3	0.0	M	103.5
1/25/2021 11:00	1.0	89.2	-34.7	71.2	13.6	0.0	M	103.5
1/25/2021 12:00	0.5	101.8	-32.7	72.6	35.7	0.0	M	103.5
1/25/2021 13:00	0.7	108.5	-32.4	72.8	48.2	0.0	M	103.5
1/25/2021 14:00	0.8	105.6	-32.2	72.3	34.4	0.0	M	103.5
1/25/2021 15:00	0.8	103.0	-33.9	71.4	5.7	0.0	M	103.5
1/25/2021 16:00	0.7	112.4	-34.2	71.3	0.9	0.0	M	103.4
1/25/2021 17:00	0.8	111.2	-34.3	71.2	0.0	0.0	M	103.4
1/25/2021 18:00	0.7	76.7	-34.3	71.3	0.0	0.0	M	103.4
1/25/2021 19:00	0.4	73.5	-34.3	71.3	0.0	0.0	M	103.4
1/25/2021 20:00	0.4	94.1	-34.3	71.2	0.0	0.0	M	103.3
1/25/2021 21:00	0.3	68.4	-34.4	71.1	0.0	0.0	M	103.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/25/2021 22:00	0.1	137.0	-34.5	71.0	0.0	0.0	M	103.3
1/25/2021 23:00	0.2	72.1	-34.5	71.0	0.0	0.0	M	103.2
1/26/2021 0:00	0.1	78.3	-34.8	70.7	0.0	0.0	M	103.2
1/26/2021 1:00	0.1	16.0	-35.1	70.4	0.0	0.0	M	103.2
1/26/2021 2:00	0.1	107.5	-35.1	70.5	0.0	0.0	M	103.2
1/26/2021 3:00	0.2	97.0	-34.7	70.7	0.0	0.0	M	103.2
1/26/2021 4:00	0.1	207.4	-35.0	70.3	0.0	0.0	M	103.1
1/26/2021 5:00	0.2	72.0	-34.9	70.5	0.0	0.0	M	103.1
1/26/2021 6:00	0.2	145.3	-34.7	70.7	0.0	0.0	M	103.1
1/26/2021 7:00	0.4	197.2	-33.7	71.9	0.0	0.0	M	103.0
1/26/2021 8:00	0.4	198.3	-32.6	73.0	0.0	0.0	M	103.0
1/26/2021 9:00	0.6	245.6	-31.6	73.9	0.0	0.0	M	103.0
1/26/2021 10:00	0.4	135.3	-30.5	74.8	1.1	0.0	M	102.9
1/26/2021 11:00	0.6	275.2	-29.9	75.7	6.9	0.0	M	102.9
1/26/2021 12:00	1.2	278.4	-28.6	76.7	15.2	0.0	M	102.8
1/26/2021 13:00	1.8	282.6	-28.2	77.3	17.3	0.0	M	102.8
1/26/2021 14:00	3.5	281.8	-27.5	77.9	11.7	0.0	M	102.8
1/26/2021 15:00	3.2	292.0	-26.8	78.7	5.8	0.0	M	102.7
1/26/2021 16:00	3.0	297.3	-26.5	78.8	0.8	0.0	M	102.7
1/26/2021 17:00	3.6	289.0	-26.5	78.9	0.0	0.0	M	102.7
1/26/2021 18:00	4.3	276.1	-26.5	78.8	0.0	0.0	M	102.6
1/26/2021 19:00	4.4	290.5	-26.3	78.8	0.0	0.0	M	102.6
1/26/2021 20:00	4.1	285.6	-26.2	78.6	0.0	0.0	M	102.5
1/26/2021 21:00	4.4	279.2	-26.2	78.4	0.0	0.0	M	102.5
1/26/2021 22:00	4.4	286.3	-26.2	78.2	0.0	0.0	M	102.5
1/26/2021 23:00	4.9	284.9	-26.0	77.7	0.0	0.0	M	102.5
1/27/2021 0:00	6.9	280.2	-25.9	76.5	0.0	0.0	M	102.4
1/27/2021 1:00	4.0	287.4	-25.8	76.2	0.0	0.0	M	102.5
1/27/2021 2:00	5.5	284.4	-25.7	75.2	0.0	0.0	M	102.4
1/27/2021 3:00	8.2	284.2	-25.5	73.6	0.0	0.0	M	102.4
1/27/2021 4:00	7.2	284.3	-25.3	71.3	0.0	0.0	M	102.4
1/27/2021 5:00	5.3	283.2	-25.2	70.4	0.0	0.0	M	102.4
1/27/2021 6:00	6.4	287.4	-24.9	70.0	0.0	0.0	M	102.4
1/27/2021 7:00	6.2	284.7	-24.9	69.4	0.0	0.0	M	102.4
1/27/2021 8:00	6.2	279.5	-25.0	68.6	0.0	0.0	M	102.4
1/27/2021 9:00	6.2	276.7	-25.3	66.4	0.0	0.0	M	102.4
1/27/2021 10:00	4.5	284.3	-26.2	66.0	2.9	0.0	M	102.4
1/27/2021 11:00	5.5	286.1	-26.3	64.6	11.9	0.0	M	102.4
1/27/2021 12:00	5.2	283.9	-26.0	62.7	50.0	0.0	M	102.4
1/27/2021 13:00	2.8	276.8	-26.2	61.2	62.9	0.0	M	102.4
1/27/2021 14:00	0.7	197.2	-27.3	64.4	45.2	0.0	M	102.4
1/27/2021 15:00	0.8	97.6	-29.5	71.6	8.4	0.0	M	102.4
1/27/2021 16:00	0.2	80.3	-30.0	73.7	1.6	0.0	M	102.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/27/2021 17:00	0.1	113.9	-30.8	74.2	0.0	0.0	M	102.4
1/27/2021 18:00	0.5	79.3	-31.2	74.3	0.0	0.0	M	102.4
1/27/2021 19:00	0.2	59.2	-31.4	74.3	0.0	0.0	M	102.4
1/27/2021 20:00	0.7	76.1	-31.6	74.2	0.0	0.0	M	102.4
1/27/2021 21:00	0.8	81.2	-31.7	74.2	0.0	0.0	M	102.3
1/27/2021 22:00	1.2	95.6	-30.8	75.0	0.0	0.0	M	102.3
1/27/2021 23:00	1.8	123.4	-29.5	75.9	0.0	0.0	M	102.2
1/28/2021 0:00	1.6	131.9	-28.6	76.9	0.0	0.0	M	102.2
1/28/2021 1:00	2.1	124.3	-28.0	77.7	0.0	0.0	M	102.1
1/28/2021 2:00	1.3	89.8	-27.2	78.4	0.0	0.0	M	102.1
1/28/2021 3:00	2.0	145.7	-25.8	79.6	0.0	0.0	M	102.1
1/28/2021 4:00	3.0	148.6	-25.0	80.1	0.0	0.0	M	102.1
1/28/2021 5:00	1.6	147.3	-24.2	79.6	0.0	0.0	M	102.0
1/28/2021 6:00	2.1	157.1	-23.6	80.2	0.0	0.0	M	102.0
1/28/2021 7:00	1.6	129.0	-23.2	80.9	0.0	0.0	M	101.9
1/28/2021 8:00	1.5	135.1	-23.1	81.0	0.0	0.0	M	101.9
1/28/2021 9:00	2.1	147.9	-22.4	81.8	0.0	0.0	M	101.8
1/28/2021 10:00	2.1	121.8	-21.9	82.7	2.6	0.0	M	101.8
1/28/2021 11:00	4.1	105.2	-21.3	84.1	17.3	0.0	M	101.7
1/28/2021 12:00	4.5	121.9	-20.7	84.9	24.1	0.0	M	101.6
1/28/2021 13:00	3.9	135.3	-20.6	84.7	25.9	0.0	M	101.5
1/28/2021 14:00	5.3	121.5	-19.9	84.0	19.9	0.0	M	101.5
1/28/2021 15:00	5.6	138.1	-19.8	77.8	9.1	0.0	M	101.4
1/28/2021 16:00	5.7	136.0	-20.2	78.5	1.3	0.0	M	101.4
1/28/2021 17:00	4.4	143.6	-20.9	79.9	0.0	0.0	M	101.3
1/28/2021 18:00	6.6	147.7	-21.4	77.0	0.0	0.0	M	101.2
1/28/2021 19:00	5.8	154.7	-21.5	78.9	0.0	0.0	M	101.2
1/28/2021 20:00	4.9	131.3	-21.1	83.3	0.0	0.0	M	101.1
1/28/2021 21:00	3.6	134.8	-21.5	83.9	0.0	0.0	M	101.0
1/28/2021 22:00	3.4	147.1	-23.3	82.3	0.0	0.0	M	101.0
1/28/2021 23:00	3.0	157.7	-24.1	81.2	0.0	0.0	M	100.9
1/29/2021 0:00	1.3	241.9	-24.3	81.3	0.0	0.0	M	100.9
1/29/2021 1:00	8.3	259.5	-22.9	82.1	0.0	0.0	M	100.9
1/29/2021 2:00	9.7	263.6	-25.1	79.7	0.0	0.0	M	100.9
1/29/2021 3:00	9.6	263.4	-26.9	77.6	0.0	0.0	M	101.0
1/29/2021 4:00	8.4	259.8	-28.1	75.0	0.0	0.0	M	101.1
1/29/2021 5:00	7.2	258.2	-28.1	71.4	0.0	0.0	M	101.0
1/29/2021 6:00	8.8	250.8	-28.1	69.9	0.0	0.0	M	101.1
1/29/2021 7:00	5.0	253.9	-28.0	68.2	0.0	0.0	M	101.1
1/29/2021 8:00	5.0	239.7	-28.4	67.2	0.0	0.0	M	101.2
1/29/2021 9:00	2.2	150.3	-30.7	71.4	0.1	0.0	M	101.2
1/29/2021 10:00	1.3	136.6	-32.7	73.0	3.6	0.0	M	101.2
1/29/2021 11:00	1.2	146.7	-32.8	73.2	30.1	0.0	M	101.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/29/2021 12:00	0.8	114.0	-31.6	73.1	83.2	0.0	M	101.3
1/29/2021 13:00	1.0	107.6	-31.2	72.9	72.0	0.0	M	101.3
1/29/2021 14:00	0.7	126.1	-31.0	72.2	67.7	0.0	M	101.3
1/29/2021 15:00	0.9	110.6	-32.3	72.5	23.1	0.0	M	101.3
1/29/2021 16:00	0.9	118.6	-33.0	72.8	3.4	0.0	M	101.3
1/29/2021 17:00	0.6	101.6	-33.4	72.4	0.0	0.0	M	101.3
1/29/2021 18:00	0.8	82.7	-34.1	72.0	0.0	0.0	M	101.4
1/29/2021 19:00	0.4	229.2	-34.6	71.5	0.0	0.0	M	101.4
1/29/2021 20:00	0.8	112.6	-34.7	71.2	0.0	0.0	M	101.4
1/29/2021 21:00	0.3	123.4	-34.9	71.2	0.0	0.0	M	101.4
1/29/2021 22:00	0.9	103.3	-34.6	71.4	0.0	0.0	M	101.4
1/29/2021 23:00	0.6	118.4	-34.5	71.6	0.0	0.0	M	101.4
1/30/2021 0:00	1.1	123.4	-34.1	72.0	0.0	0.0	M	101.4
1/30/2021 1:00	0.7	129.0	-34.2	71.7	0.0	0.0	M	101.4
1/30/2021 2:00	0.9	133.1	-34.3	71.6	0.0	0.0	M	101.5
1/30/2021 3:00	0.6	137.1	-34.8	71.0	0.0	0.0	M	101.5
1/30/2021 4:00	0.3	127.4	-35.2	70.4	0.0	0.0	M	101.6
1/30/2021 5:00	C	C	-35.5	70.1	0.0	0.0	M	101.6
1/30/2021 6:00	0.2	137.3	-35.3	70.4	0.0	0.0	M	101.6
1/30/2021 7:00	0.5	168.7	-34.7	71.0	0.0	0.0	M	101.7
1/30/2021 8:00	0.6	137.4	-34.8	70.9	0.0	0.0	M	101.7
1/30/2021 9:00	0.6	138.6	-34.9	70.8	0.1	0.0	M	101.8
1/30/2021 10:00	0.6	110.8	-35.0	70.8	8.5	0.0	M	101.8
1/30/2021 11:00	0.9	112.8	-34.6	70.7	31.4	0.0	M	101.8
1/30/2021 12:00	0.4	96.7	-34.0	71.5	33.4	0.0	M	101.9
1/30/2021 13:00	2.5	222.2	-30.5	73.8	58.4	0.0	M	101.9
1/30/2021 14:00	7.5	260.7	-28.9	70.0	38.9	0.0	M	101.9
1/30/2021 15:00	8.0	267.2	-29.2	70.0	9.3	0.0	M	102.0
1/30/2021 16:00	7.3	272.5	-29.6	70.3	2.5	0.0	M	102.0
1/30/2021 17:00	9.3	269.2	-29.8	70.7	0.0	0.0	M	102.0
1/30/2021 18:00	8.7	275.4	-30.3	70.8	0.0	0.0	M	102.1
1/30/2021 19:00	8.7	270.0	-29.7	70.4	0.0	0.0	M	102.1
1/30/2021 20:00	6.5	276.3	-30.0	71.2	0.0	0.0	M	102.2
1/30/2021 21:00	1.4	194.0	-31.9	73.0	0.0	0.0	M	102.2
1/30/2021 22:00	5.2	268.7	-30.3	75.2	0.0	0.0	M	102.2
1/30/2021 23:00	7.0	265.3	-29.3	75.3	0.0	0.0	M	102.3
1/31/2021 0:00	8.7	266.1	-28.8	73.3	0.0	0.0	M	102.3
1/31/2021 1:00	8.5	265.2	-28.6	73.2	0.0	0.0	M	102.3
1/31/2021 2:00	8.1	265.8	-28.1	74.1	0.0	0.0	M	102.4
1/31/2021 3:00	7.0	274.2	-28.4	74.1	0.0	0.0	M	102.4
1/31/2021 4:00	8.2	263.3	-28.4	74.5	0.0	0.0	M	102.5
1/31/2021 5:00	7.4	257.3	-28.2	76.2	0.0	0.0	M	102.5
1/31/2021 6:00	8.3	260.3	-28.1	77.2	0.0	0.0	M	102.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
1/31/2021 7:00	8.5	265.6	-28.7	77.0	0.0	0.0	M	102.5
1/31/2021 8:00	7.8	265.6	-28.7	77.1	0.0	0.0	M	102.6
1/31/2021 9:00	7.5	265.2	-28.8	77.0	0.2	0.0	M	102.6
1/31/2021 10:00	7.2	267.3	-29.0	76.8	5.8	0.0	M	102.6
1/31/2021 11:00	5.3	267.5	-29.0	76.6	16.5	0.0	M	102.7
1/31/2021 12:00	6.1	267.1	-28.0	77.6	41.3	0.0	M	102.7
1/31/2021 13:00	6.5	274.5	-27.9	77.4	39.2	0.0	M	102.7
1/31/2021 14:00	7.1	265.6	-27.4	77.8	40.7	0.0	M	102.8
1/31/2021 15:00	5.7	271.0	-27.3	78.2	17.4	0.0	M	102.8
1/31/2021 16:00	5.8	270.2	-27.1	78.6	2.6	0.0	M	102.8
1/31/2021 17:00	2.9	293.8	-27.4	78.1	0.0	0.0	M	102.8
1/31/2021 18:00	1.2	265.5	-28.3	77.3	0.0	0.0	M	102.8
1/31/2021 19:00	2.0	283.8	-28.3	77.4	0.0	0.0	M	102.8
1/31/2021 20:00	1.7	295.8	-29.1	76.5	0.0	0.0	M	102.8
1/31/2021 21:00	1.5	276.7	-30.0	75.8	0.0	0.0	M	102.9
1/31/2021 22:00	1.2	260.2	-30.4	75.3	0.0	0.0	M	102.8
1/31/2021 23:00	1.8	268.3	-30.5	75.3	0.0	0.0	M	102.9
2/1/2021 0:00	2.2	273.8	-30.7	75.1	0.0	0.0	M	102.9
2/1/2021 1:00	1.7	265.3	-31.0	74.8	0.0	0.0	M	102.9
2/1/2021 2:00	2.2	284.4	-31.2	74.7	0.0	0.0	M	103.0
2/1/2021 3:00	4.4	281.6	-30.8	75.1	0.0	0.0	M	102.9
2/1/2021 4:00	3.4	275.4	-31.4	74.4	0.0	0.0	M	102.9
2/1/2021 5:00	4.9	280.1	-31.2	74.7	0.0	0.0	M	102.9
2/1/2021 6:00	6.3	280.5	-31.3	74.5	0.0	0.0	M	102.9
2/1/2021 7:00	6.9	285.9	-31.3	74.6	0.0	0.0	M	102.9
2/1/2021 8:00	4.9	286.4	-31.0	74.8	0.0	0.0	M	102.9
2/1/2021 9:00	5.7	288.6	-31.0	74.8	0.1	0.0	M	102.9
2/1/2021 10:00	6.6	282.4	-30.9	74.9	4.9	0.0	M	102.9
2/1/2021 11:00	6.1	275.7	-30.4	75.3	19.6	0.0	M	102.9
2/1/2021 12:00	7.4	277.4	-29.9	75.8	34.4	0.0	M	102.9
2/1/2021 13:00	6.4	270.1	-29.6	76.0	39.8	0.0	M	102.9
2/1/2021 14:00	6.7	276.5	-29.7	75.8	36.8	0.0	M	102.9
2/1/2021 15:00	7.9	279.4	-30.0	75.6	15.9	0.0	M	102.9
2/1/2021 16:00	6.8	280.0	-30.5	75.2	3.4	0.0	M	102.9
2/1/2021 17:00	7.0	272.0	-30.7	75.1	0.0	0.0	M	102.8
2/1/2021 18:00	8.3	272.8	-31.0	74.8	0.0	0.0	M	102.8
2/1/2021 19:00	6.1	279.2	-31.5	74.1	0.0	0.0	M	102.8
2/1/2021 20:00	5.9	283.3	-31.7	74.3	0.0	0.0	M	102.8
2/1/2021 21:00	7.2	273.6	-31.4	74.3	0.0	0.0	M	102.7
2/1/2021 22:00	8.4	271.6	-32.1	73.7	0.0	0.0	M	102.7
2/1/2021 23:00	6.0	276.4	-32.5	73.4	0.0	0.0	M	102.8
2/2/2021 0:00	6.5	273.3	-32.7	73.1	0.0	0.0	M	102.7
2/2/2021 1:00	6.5	276.3	-33.4	72.4	0.0	0.0	M	102.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/2/2021 2:00	5.0	283.0	-33.2	72.8	0.0	0.0	M	102.8
2/2/2021 3:00	6.2	276.3	-31.9	73.9	0.0	0.0	M	102.8
2/2/2021 4:00	5.4	278.5	-31.8	73.9	0.0	0.0	M	102.8
2/2/2021 5:00	4.8	271.1	-32.4	73.2	0.0	0.0	M	102.7
2/2/2021 6:00	4.9	282.5	-32.7	73.0	0.0	0.0	M	102.7
2/2/2021 7:00	6.4	285.8	-33.0	72.8	0.0	0.0	M	102.7
2/2/2021 8:00	6.1	282.9	-32.4	73.5	0.0	0.0	M	102.7
2/2/2021 9:00	6.8	280.2	-32.2	73.5	0.3	0.0	M	102.7
2/2/2021 10:00	8.4	272.7	-32.4	73.4	5.4	0.0	M	102.7
2/2/2021 11:00	9.0	272.6	-31.6	74.1	20.8	0.0	M	102.7
2/2/2021 12:00	9.7	276.2	-31.2	74.4	43.7	0.0	M	102.6
2/2/2021 13:00	10.2	265.8	-30.4	75.1	56.8	0.0	M	102.5
2/2/2021 14:00	10.8	272.3	-30.1	75.4	39.2	0.0	M	102.6
2/2/2021 15:00	10.2	276.8	-30.0	75.5	16.2	0.0	M	102.6
2/2/2021 16:00	10.8	274.5	-29.9	75.7	3.1	0.0	M	102.6
2/2/2021 17:00	6.6	283.1	-30.1	75.5	0.0	0.0	M	102.7
2/2/2021 18:00	4.9	277.0	-30.2	75.4	0.0	0.0	M	102.7
2/2/2021 19:00	4.0	279.0	-30.2	75.5	0.0	0.0	M	102.6
2/2/2021 20:00	6.0	265.8	-30.0	75.7	0.0	0.0	M	102.6
2/2/2021 21:00	5.7	263.3	-30.0	75.7	0.0	0.0	M	102.6
2/2/2021 22:00	5.3	284.5	-30.5	75.0	0.0	0.0	M	102.6
2/2/2021 23:00	5.2	285.0	-32.0	73.8	0.0	0.0	M	102.5
2/3/2021 0:00	7.0	282.0	-31.9	73.8	0.0	0.0	M	102.6
2/3/2021 1:00	7.3	272.0	-32.3	73.4	0.0	0.0	M	102.6
2/3/2021 2:00	7.2	268.1	-33.0	72.7	0.0	0.0	M	102.6
2/3/2021 3:00	6.9	272.4	-33.4	72.4	0.0	0.0	M	102.5
2/3/2021 4:00	11.2	267.0	-33.0	72.7	0.0	0.0	M	102.4
2/3/2021 5:00	8.8	268.3	-33.4	72.3	0.0	0.0	M	102.5
2/3/2021 6:00	7.3	269.6	-33.5	72.1	0.0	0.0	M	102.4
2/3/2021 7:00	6.7	265.7	-33.9	71.8	0.0	0.0	M	102.4
2/3/2021 8:00	7.1	260.0	-34.0	71.8	0.0	0.0	M	102.4
2/3/2021 9:00	10.3	259.9	-33.9	71.8	0.3	0.0	M	102.3
2/3/2021 10:00	7.3	260.7	-34.0	71.6	5.4	0.0	M	102.3
2/3/2021 11:00	9.2	256.4	-34.1	71.4	16.8	0.0	M	102.2
2/3/2021 12:00	10.1	262.3	-33.9	71.5	30.8	0.0	M	102.2
2/3/2021 13:00	8.5	258.2	-33.8	71.0	65.5	0.0	M	102.2
2/3/2021 14:00	9.0	265.2	-33.3	71.5	56.4	0.0	M	102.1
2/3/2021 15:00	7.8	254.4	-33.7	71.4	25.6	0.0	M	102.1
2/3/2021 16:00	8.4	257.1	-33.8	71.6	4.0	0.0	M	102.1
2/3/2021 17:00	7.0	255.5	-33.8	71.6	0.1	0.0	M	102.1
2/3/2021 18:00	6.4	259.5	-33.7	71.8	0.0	0.0	M	102.0
2/3/2021 19:00	8.2	261.5	-33.8	71.8	0.0	0.0	M	102.0
2/3/2021 20:00	7.4	262.1	-34.0	71.6	0.0	0.0	M	102.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/3/2021 21:00	6.6	261.8	-34.0	71.6	0.0	0.0	M	101.9
2/3/2021 22:00	5.0	257.8	-34.3	71.3	0.0	0.0	M	101.9
2/3/2021 23:00	5.6	256.2	-34.2	71.4	0.0	0.0	M	101.9
2/4/2021 0:00	4.9	253.8	-34.3	71.3	0.0	0.0	M	101.8
2/4/2021 1:00	5.7	263.4	-34.1	71.4	0.0	0.0	M	101.8
2/4/2021 2:00	5.9	255.4	-34.7	70.7	0.0	0.0	M	101.8
2/4/2021 3:00	6.2	258.7	-34.9	70.6	0.0	0.0	M	101.7
2/4/2021 4:00	7.5	259.9	-34.9	70.4	0.0	0.0	M	101.7
2/4/2021 5:00	8.2	264.8	-35.1	70.3	0.0	0.0	M	101.6
2/4/2021 6:00	8.5	267.4	-35.3	70.0	0.0	0.0	M	101.7
2/4/2021 7:00	7.2	272.2	-35.8	69.5	0.0	0.0	M	101.7
2/4/2021 8:00	5.7	278.0	-36.7	68.8	0.0	0.0	M	101.1
2/4/2021 9:00	3.9	284.5	-37.5	68.1	0.5	0.0	M	99.3
2/4/2021 10:00	3.4	287.7	-37.4	68.1	5.8	0.0	M	99.6
2/4/2021 11:00	1.8	278.4	-37.1	68.2	26.5	0.0	M	101.0
2/4/2021 12:00	2.2	288.3	-37.1	67.8	33.3	0.0	M	100.6
2/4/2021 13:00	3.0	294.1	-37.6	67.2	44.8	0.0	M	99.8
2/4/2021 14:00	3.7	295.4	-38.7	65.7	51.6	0.0	M	97.9
2/4/2021 15:00	5.4	293.0	-40.0	64.6	29.4	0.0	M	93.2
2/4/2021 16:00	3.8	289.0	-40.6	64.5	5.6	0.0	M	91.3
2/4/2021 17:00	5.0	289.5	-41.1	64.2	0.2	0.0	M	90.1
2/4/2021 18:00	7.3	289.2	-41.7	63.6	0.0	0.0	M	88.9
2/4/2021 19:00	6.9	290.1	-42.1	63.1	0.0	0.0	M	88.0
2/4/2021 20:00	6.4	292.3	-42.1	63.0	0.0	0.0	M	88.0
2/4/2021 21:00	6.5	290.8	-42.0	63.1	0.0	0.0	M	88.2
2/4/2021 22:00	7.8	294.3	-41.8	63.2	0.0	0.0	M	88.7
2/4/2021 23:00	9.2	294.0	-42.2	62.8	0.0	0.0	M	88.0
2/5/2021 0:00	8.4	292.1	-42.8	62.1	0.0	0.0	M	86.9
2/5/2021 1:00	7.0	292.4	-42.8	62.2	0.0	0.0	M	87.0
2/5/2021 2:00	6.9	289.7	-42.5	62.6	0.0	0.0	M	87.5
2/5/2021 3:00	8.8	287.7	-42.5	62.6	0.0	0.0	M	87.6
2/5/2021 4:00	8.0	286.2	-42.7	62.4	0.0	0.0	M	87.2
2/5/2021 5:00	9.5	281.9	-42.9	62.2	0.0	0.0	M	86.9
2/5/2021 6:00	9.7	279.4	-42.7	62.4	0.0	0.0	M	87.4
2/5/2021 7:00	8.7	275.6	-42.6	62.5	0.0	0.0	M	87.3
2/5/2021 8:00	8.2	279.7	-42.5	62.7	0.0	0.0	M	87.5
2/5/2021 9:00	7.0	294.7	-42.2	62.9	0.7	0.0	M	88.3
2/5/2021 10:00	7.6	290.6	-42.0	62.8	7.8	0.0	M	88.8
2/5/2021 11:00	9.2	284.4	-42.0	62.6	27.4	0.0	M	88.9
2/5/2021 12:00	9.2	287.4	-41.6	62.7	56.3	0.0	M	90.1
2/5/2021 13:00	10.0	287.4	-41.5	62.8	52.2	0.0	M	90.2
2/5/2021 14:00	8.7	287.2	-41.3	63.0	46.1	0.0	M	90.8
2/5/2021 15:00	8.0	289.3	-40.8	63.7	29.4	0.0	M	92.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/5/2021 16:00	8.3	286.4	-40.2	64.5	5.9	0.0	M	92.9
2/5/2021 17:00	8.2	287.5	-39.7	65.1	0.2	0.0	M	94.1
2/5/2021 18:00	7.9	288.9	-39.4	65.4	0.0	0.0	M	94.5
2/5/2021 19:00	7.6	285.6	-39.5	65.5	0.0	0.0	M	94.6
2/5/2021 20:00	8.0	284.6	-39.4	65.4	0.0	0.0	M	94.9
2/5/2021 21:00	7.0	286.2	-39.2	65.5	0.0	0.0	M	95.2
2/5/2021 22:00	7.8	284.0	-39.0	65.9	0.0	0.0	M	95.9
2/5/2021 23:00	7.9	285.5	-38.8	65.8	0.0	0.0	M	96.1
2/6/2021 0:00	9.3	284.4	-38.8	65.9	0.0	0.0	M	96.1
2/6/2021 1:00	11.8	280.7	-38.9	65.8	0.0	0.0	M	95.6
2/6/2021 2:00	12.1	279.8	-39.2	65.6	0.0	0.0	M	95.1
2/6/2021 3:00	10.6	277.4	-39.4	65.5	0.0	0.0	M	94.6
2/6/2021 4:00	9.7	282.0	-39.4	65.6	0.0	0.0	M	95.0
2/6/2021 5:00	9.1	279.8	-39.0	66.0	0.0	0.0	M	95.8
2/6/2021 6:00	9.5	282.0	-39.0	65.9	0.0	0.0	M	95.7
2/6/2021 7:00	8.8	279.5	-39.2	65.8	0.0	0.0	M	95.1
2/6/2021 8:00	8.7	283.4	-39.5	65.6	0.0	0.0	M	94.1
2/6/2021 9:00	10.5	285.9	-39.6	65.6	1.0	0.0	M	94.2
2/6/2021 10:00	10.7	286.0	-39.4	65.6	15.0	0.0	M	94.8
2/6/2021 11:00	10.2	284.3	-38.8	65.4	51.7	0.0	M	97.0
2/6/2021 12:00	10.3	284.4	-38.3	65.5	79.4	0.0	M	98.9
2/6/2021 13:00	11.0	278.9	-38.0	65.6	90.9	0.0	M	99.8
2/6/2021 14:00	8.6	277.8	-37.9	65.9	78.0	0.0	M	100.2
2/6/2021 15:00	7.9	281.3	-37.9	66.5	43.3	0.0	M	99.9
2/6/2021 16:00	9.0	285.9	-37.9	67.0	9.6	0.0	M	99.0
2/6/2021 17:00	10.1	284.4	-38.0	67.0	0.5	0.0	M	98.4
2/6/2021 18:00	10.4	282.0	-38.1	67.0	0.0	0.0	M	98.0
2/6/2021 19:00	10.8	284.4	-37.9	67.2	0.0	0.0	M	98.6
2/6/2021 20:00	10.4	283.7	-38.1	66.9	0.0	0.0	M	97.9
2/6/2021 21:00	10.5	284.5	-38.1	67.0	0.0	0.0	M	98.2
2/6/2021 22:00	9.7	287.1	-38.1	66.9	0.0	0.0	M	97.9
2/6/2021 23:00	9.6	285.1	-38.4	66.6	0.0	0.0	M	97.3
2/7/2021 0:00	9.6	289.3	-38.6	66.6	0.0	0.0	M	96.9
2/7/2021 1:00	10.1	289.4	-38.4	66.8	0.0	0.0	M	97.4
2/7/2021 2:00	10.7	287.2	-38.3	66.9	0.0	0.0	M	97.7
2/7/2021 3:00	10.6	289.5	-38.3	66.8	0.0	0.0	M	97.6
2/7/2021 4:00	11.6	287.9	-38.4	66.8	0.0	0.0	M	97.7
2/7/2021 5:00	11.6	287.9	-38.3	66.8	0.0	0.0	M	97.9
2/7/2021 6:00	10.7	289.4	-38.2	67.0	0.0	0.0	M	98.2
2/7/2021 7:00	11.1	288.4	-38.0	67.2	0.0	0.0	M	98.8
2/7/2021 8:00	11.4	284.4	-37.8	67.4	0.0	0.0	M	99.4
2/7/2021 9:00	10.9	281.3	-37.4	67.7	0.7	0.0	M	100.3
2/7/2021 10:00	10.8	284.8	-37.3	67.8	10.4	0.0	M	101.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/7/2021 11:00	10.5	283.4	-36.8	68.2	36.3	0.0	M	102.9
2/7/2021 12:00	11.6	286.1	-36.4	68.4	48.2	0.0	M	102.9
2/7/2021 13:00	13.3	285.3	-35.8	69.1	57.0	0.0	M	102.8
2/7/2021 14:00	11.6	286.9	-34.9	70.0	55.6	0.0	M	102.9
2/7/2021 15:00	11.2	293.0	-34.0	70.9	30.4	0.0	M	102.9
2/7/2021 16:00	11.1	289.4	-33.9	71.2	6.1	0.0	M	102.9
2/7/2021 17:00	10.4	294.4	-33.7	71.3	0.4	0.0	M	103.0
2/7/2021 18:00	9.9	283.7	-33.8	71.3	0.0	0.0	M	103.0
2/7/2021 19:00	10.1	288.4	-33.3	71.9	0.0	0.0	M	103.0
2/7/2021 20:00	9.4	288.4	-32.5	72.5	0.0	0.0	M	103.0
2/7/2021 21:00	10.4	289.4	-32.5	72.5	0.0	0.0	M	103.0
2/7/2021 22:00	11.1	289.8	-32.4	72.7	0.0	0.0	M	103.0
2/7/2021 23:00	10.6	293.5	-31.9	73.1	0.0	0.0	M	103.0
2/8/2021 0:00	8.9	291.5	-31.2	73.9	0.0	0.0	M	103.0
2/8/2021 1:00	7.9	305.1	-30.1	74.8	0.0	0.0	M	103.0
2/8/2021 2:00	9.3	302.5	-29.9	75.0	0.0	0.0	M	102.9
2/8/2021 3:00	9.7	308.9	-29.6	75.4	0.0	0.0	M	102.9
2/8/2021 4:00	9.0	309.5	-29.4	75.6	0.0	0.0	M	102.9
2/8/2021 5:00	7.8	307.3	-29.2	75.9	0.0	0.0	M	102.8
2/8/2021 6:00	8.1	305.2	-28.9	76.3	0.0	0.0	M	102.9
2/8/2021 7:00	8.2	301.7	-28.2	76.9	0.0	0.0	M	102.8
2/8/2021 8:00	8.2	302.7	-27.5	77.6	0.0	0.0	M	102.7
2/8/2021 9:00	8.5	293.5	-26.9	78.2	1.3	0.0	M	102.8
2/8/2021 10:00	8.1	303.1	-26.1	78.8	8.8	0.0	M	102.7
2/8/2021 11:00	9.4	298.5	-25.7	79.1	39.0	0.0	M	102.7
2/8/2021 12:00	8.6	296.9	-25.3	79.4	56.8	0.0	M	102.7
2/8/2021 13:00	8.0	297.7	-25.0	79.3	99.6	0.0	M	102.7
2/8/2021 14:00	7.8	302.2	-24.6	79.8	65.2	0.0	M	102.8
2/8/2021 15:00	7.0	300.6	-24.4	80.3	26.2	0.0	M	102.8
2/8/2021 16:00	6.5	304.8	-24.3	80.6	7.2	0.0	M	102.9
2/8/2021 17:00	8.0	312.1	-24.0	81.0	0.7	0.0	M	102.9
2/8/2021 18:00	7.4	312.8	-23.6	81.2	0.0	0.0	M	102.9
2/8/2021 19:00	6.3	299.9	-23.4	81.4	0.0	0.0	M	102.9
2/8/2021 20:00	7.1	318.4	-23.0	81.7	0.0	0.0	M	102.8
2/8/2021 21:00	6.8	327.3	-22.8	82.0	0.0	0.0	M	102.8
2/8/2021 22:00	7.0	322.9	-22.4	82.1	0.0	0.0	M	102.9
2/8/2021 23:00	7.0	308.2	-22.0	82.5	0.0	0.0	M	102.9
2/9/2021 0:00	6.9	300.2	-21.7	82.9	0.0	0.0	M	102.8
2/9/2021 1:00	8.2	297.4	-21.4	83.5	0.0	0.0	M	102.8
2/9/2021 2:00	7.3	299.2	-20.8	83.8	0.0	0.0	M	102.8
2/9/2021 3:00	7.0	300.5	-20.1	84.4	0.0	0.0	M	102.8
2/9/2021 4:00	6.0	300.9	-19.5	85.1	0.0	0.0	M	102.8
2/9/2021 5:00	6.8	290.4	-19.2	85.4	0.0	0.0	M	102.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/9/2021 6:00	6.3	292.3	-19.2	85.5	0.0	0.0	M	102.9
2/9/2021 7:00	6.1	309.6	-19.3	84.9	0.0	0.0	M	102.9
2/9/2021 8:00	6.8	303.2	-19.7	84.6	0.0	0.0	M	102.8
2/9/2021 9:00	6.5	317.8	-19.9	84.5	1.5	0.0	M	102.9
2/9/2021 10:00	6.0	317.7	-20.8	83.8	21.5	0.0	M	103.0
2/9/2021 11:00	6.3	313.9	-21.3	83.1	57.8	0.0	M	103.0
2/9/2021 12:00	6.7	317.7	-21.7	82.7	66.2	0.0	M	103.0
2/9/2021 13:00	6.6	318.3	-22.3	82.2	70.7	0.0	M	103.1
2/9/2021 14:00	7.2	319.0	-22.7	81.9	71.3	0.0	M	103.1
2/9/2021 15:00	6.8	320.5	-22.9	81.6	42.1	0.0	M	103.2
2/9/2021 16:00	5.1	308.5	-23.2	81.4	10.2	0.0	M	103.2
2/9/2021 17:00	3.8	300.1	-23.6	81.4	0.7	0.0	M	103.3
2/9/2021 18:00	4.4	337.6	-23.1	81.1	0.0	0.0	M	103.3
2/9/2021 19:00	3.7	311.6	-23.4	81.3	0.0	0.0	M	103.3
2/9/2021 20:00	3.2	295.6	-23.5	81.9	0.0	0.0	M	103.3
2/9/2021 21:00	4.3	283.4	-24.1	81.3	0.0	0.0	M	103.3
2/9/2021 22:00	4.7	282.4	-24.3	81.2	0.0	0.0	M	103.4
2/9/2021 23:00	5.4	289.6	-24.2	82.0	0.0	0.0	M	103.5
2/10/2021 0:00	4.2	292.7	-23.8	82.4	0.0	0.0	M	103.5
2/10/2021 1:00	4.8	293.8	-23.6	82.4	0.0	0.0	M	103.6
2/10/2021 2:00	5.2	286.7	-23.5	82.3	0.0	0.0	M	103.7
2/10/2021 3:00	5.7	287.3	-23.4	82.3	0.0	0.0	M	103.7
2/10/2021 4:00	6.3	284.2	-23.4	82.4	0.0	0.0	M	103.7
2/10/2021 5:00	6.7	281.5	-23.2	82.8	0.0	0.0	M	103.8
2/10/2021 6:00	7.0	278.6	-22.9	82.8	0.0	0.0	M	103.8
2/10/2021 7:00	6.4	274.1	-23.4	82.3	0.0	0.0	M	103.9
2/10/2021 8:00	6.8	276.3	-23.9	81.9	0.0	0.0	M	103.9
2/10/2021 9:00	6.1	279.3	-23.8	82.0	1.6	0.0	M	104.0
2/10/2021 10:00	6.0	295.7	-24.4	81.3	12.0	0.0	M	104.0
2/10/2021 11:00	7.4	295.4	-24.7	80.3	53.3	0.0	M	104.0
2/10/2021 12:00	6.2	291.5	-24.7	80.3	68.3	0.0	M	104.0
2/10/2021 13:00	7.2	285.9	-24.2	81.4	49.6	0.0	M	104.0
2/10/2021 14:00	8.5	284.5	-24.3	81.1	41.3	0.0	M	104.1
2/10/2021 15:00	7.9	286.1	-25.6	79.8	44.2	0.0	M	104.1
2/10/2021 16:00	6.0	282.1	-26.5	79.3	13.0	0.0	M	104.1
2/10/2021 17:00	7.6	285.7	-26.8	79.2	1.0	0.0	M	104.1
2/10/2021 18:00	8.8	287.2	-27.0	79.0	0.0	0.0	M	104.1
2/10/2021 19:00	6.6	287.2	-27.2	78.7	0.0	0.0	M	104.0
2/10/2021 20:00	6.9	287.8	-27.5	78.5	0.0	0.0	M	104.0
2/10/2021 21:00	6.0	290.4	-27.4	78.6	0.0	0.0	M	104.0
2/10/2021 22:00	5.3	288.9	-27.4	78.5	0.0	0.0	M	104.0
2/10/2021 23:00	6.0	292.5	-27.4	78.5	0.0	0.0	M	104.0
2/11/2021 0:00	5.4	296.0	-27.4	78.4	0.0	0.0	M	104.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/11/2021 1:00	5.4	292.8	-27.6	78.3	0.0	0.0	M	103.9
2/11/2021 2:00	5.6	288.1	-27.6	78.4	0.0	0.0	M	104.0
2/11/2021 3:00	5.3	292.4	-27.3	78.6	0.0	0.0	M	103.9
2/11/2021 4:00	5.6	289.0	-27.7	78.2	0.0	0.0	M	103.9
2/11/2021 5:00	7.2	290.3	-27.4	78.5	0.0	0.0	M	103.8
2/11/2021 6:00	6.8	286.2	-27.4	78.5	0.0	0.0	M	103.8
2/11/2021 7:00	6.9	283.2	-27.5	78.4	0.0	0.0	M	103.8
2/11/2021 8:00	5.8	279.7	-27.6	78.2	0.0	0.0	M	103.8
2/11/2021 9:00	8.2	276.4	-27.5	78.4	3.0	0.0	M	103.7
2/11/2021 10:00	5.8	282.1	-27.5	78.0	30.0	0.0	M	103.7
2/11/2021 11:00	9.8	289.1	-27.4	77.7	66.4	0.0	M	103.6
2/11/2021 12:00	9.0	293.7	-27.3	77.4	91.1	0.0	M	103.7
2/11/2021 13:00	6.4	289.7	-26.4	78.4	96.4	0.0	M	103.7
2/11/2021 14:00	6.9	285.4	-26.7	78.0	84.5	0.0	M	103.7
2/11/2021 15:00	6.8	280.0	-26.9	78.4	60.1	0.0	M	103.6
2/11/2021 16:00	7.9	289.0	-27.2	78.4	17.9	0.0	M	103.5
2/11/2021 17:00	10.2	284.0	-27.7	78.1	1.7	0.0	M	103.6
2/11/2021 18:00	8.7	285.6	-27.9	78.0	0.0	0.0	M	103.5
2/11/2021 19:00	7.9	289.6	-27.8	78.0	0.0	0.0	M	103.4
2/11/2021 20:00	8.3	285.5	-28.1	77.7	0.0	0.0	M	103.4
2/11/2021 21:00	6.1	276.9	-28.1	77.7	0.0	0.0	M	103.4
2/11/2021 22:00	9.7	285.3	-28.2	77.6	0.0	0.0	M	103.3
2/11/2021 23:00	9.7	288.0	-27.5	78.2	0.0	0.0	M	103.3
2/12/2021 0:00	8.9	282.1	-28.2	77.4	0.0	0.0	M	103.3
2/12/2021 1:00	10.0	285.7	-28.6	77.2	0.0	0.0	M	103.3
2/12/2021 2:00	11.0	282.2	-28.8	77.0	0.0	0.0	M	103.3
2/12/2021 3:00	8.4	278.1	-29.3	76.6	0.0	0.0	M	103.2
2/12/2021 4:00	4.7	288.7	-29.5	76.2	0.0	0.0	M	103.3
2/12/2021 5:00	2.4	290.4	-29.7	76.1	0.0	0.0	M	103.3
2/12/2021 6:00	6.2	285.1	-29.5	76.3	0.0	0.0	M	103.2
2/12/2021 7:00	6.1	290.1	-29.3	76.4	0.0	0.0	M	103.2
2/12/2021 8:00	6.0	294.2	-29.4	76.3	0.0	0.0	M	103.2
2/12/2021 9:00	8.8	282.5	-29.4	76.3	5.1	0.0	M	103.2
2/12/2021 10:00	8.7	286.5	-28.7	76.2	44.2	0.0	M	103.2
2/12/2021 11:00	8.0	285.6	-28.1	75.8	79.8	0.0	M	103.2
2/12/2021 12:00	7.8	286.7	-26.9	76.2	107.9	0.0	M	103.2
2/12/2021 13:00	7.5	287.6	-26.3	75.9	115.9	0.0	M	103.2
2/12/2021 14:00	5.9	287.7	-26.2	75.8	106.3	0.0	M	103.2
2/12/2021 15:00	5.6	286.2	-26.3	75.9	78.1	0.0	M	103.2
2/12/2021 16:00	5.6	281.5	-27.1	76.5	25.1	0.0	M	103.2
2/12/2021 17:00	5.6	286.5	-27.4	77.3	2.4	0.0	M	103.2
2/12/2021 18:00	3.9	278.1	-27.6	77.1	0.0	0.0	M	103.2
2/12/2021 19:00	3.4	282.4	-27.6	77.6	0.0	0.0	M	103.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/12/2021 20:00	2.3	273.5	-27.9	77.0	0.0	0.0	M	103.2
2/12/2021 21:00	1.0	132.9	-30.3	75.5	0.0	0.0	M	103.1
2/12/2021 22:00	0.5	154.9	-30.9	74.9	0.0	0.0	M	103.1
2/12/2021 23:00	0.3	131.7	-31.1	74.6	0.0	0.0	M	103.0
2/13/2021 0:00	0.2	76.8	-31.6	74.1	0.0	0.0	M	103.0
2/13/2021 1:00	INV	INV	-31.7	74.0	0.0	0.0	M	103.0
2/13/2021 2:00	INV	INV	-31.8	73.8	0.0	0.0	M	103.0
2/13/2021 3:00	INV	INV	-31.9	73.8	0.0	0.0	M	102.9
2/13/2021 4:00	0.2	186.1	-32.0	73.7	0.0	0.0	M	102.9
2/13/2021 5:00	0.1	46.1	-31.8	73.9	0.0	0.0	M	102.8
2/13/2021 6:00	0.2	151.4	-31.8	73.8	0.0	0.0	M	102.8
2/13/2021 7:00	0.4	125.3	-31.8	73.8	0.0	0.0	M	102.8
2/13/2021 8:00	0.6	161.7	-31.4	74.3	0.0	0.0	M	102.7
2/13/2021 9:00	0.6	135.8	-31.1	74.5	3.1	0.0	M	102.7
2/13/2021 10:00	0.1	182.9	-29.8	75.6	23.2	0.0	M	102.6
2/13/2021 11:00	0.4	192.6	-28.6	76.5	40.0	0.0	M	102.5
2/13/2021 12:00	0.5	115.6	-27.6	75.9	85.1	0.0	M	102.5
2/13/2021 13:00	2.1	301.1	-25.1	77.5	77.5	0.0	M	102.4
2/13/2021 14:00	7.0	259.5	-17.9	68.8	115.6	0.0	M	102.3
2/13/2021 15:00	6.5	250.1	-17.9	59.7	102.7	0.0	M	102.2
2/13/2021 16:00	7.2	257.3	-17.7	57.3	40.5	0.0	M	102.2
2/13/2021 17:00	8.4	260.2	-16.7	53.8	4.2	0.0	M	102.1
2/13/2021 18:00	8.5	255.3	-16.9	54.9	0.0	0.0	M	102.0
2/13/2021 19:00	8.7	251.1	-16.8	55.0	0.0	0.0	M	101.9
2/13/2021 20:00	7.3	254.3	-16.7	56.8	0.0	0.0	M	101.9
2/13/2021 21:00	6.5	251.5	-17.3	60.0	0.0	0.0	M	101.8
2/13/2021 22:00	6.6	258.9	-16.7	57.4	0.0	0.0	M	101.7
2/13/2021 23:00	7.2	254.2	-16.6	55.8	0.0	0.0	M	101.7
2/14/2021 0:00	5.3	254.3	-16.8	56.1	0.0	0.0	M	101.7
2/14/2021 1:00	3.8	244.0	-16.8	54.3	0.0	0.0	M	101.7
2/14/2021 2:00	4.5	242.9	-16.8	58.6	0.0	0.0	M	101.6
2/14/2021 3:00	3.0	236.4	-17.2	60.6	0.0	0.0	M	101.5
2/14/2021 4:00	3.3	247.1	-16.6	60.5	0.0	0.0	M	101.5
2/14/2021 5:00	4.2	241.3	-16.2	59.5	0.0	0.0	M	101.4
2/14/2021 6:00	5.0	264.3	-15.6	57.5	0.0	0.0	M	101.3
2/14/2021 7:00	2.3	203.5	-19.7	66.3	0.0	0.0	M	101.3
2/14/2021 8:00	1.2	170.7	-21.2	72.9	0.0	0.0	M	101.2
2/14/2021 9:00	1.7	215.1	-20.9	69.5	7.0	0.0	M	101.2
2/14/2021 10:00	1.5	175.9	-19.6	67.6	42.9	0.0	M	101.1
2/14/2021 11:00	1.3	158.5	-18.8	67.8	95.5	0.0	M	101.0
2/14/2021 12:00	1.2	191.9	-18.0	64.9	130.9	1.0	M	101.0
2/14/2021 13:00	4.8	218.4	-17.9	68.5	153.6	1.0	M	100.9
2/14/2021 14:00	4.5	220.9	-17.0	68.2	138.9	1.0	M	100.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/14/2021 15:00	2.3	214.1	-17.4	67.5	101.9	0.0	M	100.8
2/14/2021 16:00	3.5	195.2	-18.1	69.2	40.3	0.0	M	100.7
2/14/2021 17:00	5.3	213.1	-18.5	73.0	3.9	0.0	M	100.6
2/14/2021 18:00	7.2	233.2	-17.7	73.8	0.0	0.0	M	100.6
2/14/2021 19:00	10.0	255.3	-18.0	74.8	0.0	0.0	M	100.4
2/14/2021 20:00	12.1	261.4	-18.9	75.7	0.0	0.0	M	100.4
2/14/2021 21:00	12.6	254.4	-19.1	75.5	0.0	0.0	M	100.3
2/14/2021 22:00	15.2	253.7	-19.1	76.3	0.0	0.0	M	100.3
2/14/2021 23:00	14.9	258.1	-20.9	79.4	0.0	0.0	M	100.3
2/15/2021 0:00	11.4	265.0	-22.8	81.4	0.0	0.0	M	100.5
2/15/2021 1:00	9.8	258.9	-23.1	81.6	0.0	0.0	M	100.4
2/15/2021 2:00	9.3	259.2	-23.7	81.3	0.0	0.0	M	100.4
2/15/2021 3:00	13.1	261.5	-23.5	81.8	0.0	0.0	M	100.3
2/15/2021 4:00	11.7	261.0	-23.2	81.7	0.0	0.0	M	100.4
2/15/2021 5:00	12.0	260.9	-23.4	81.5	0.0	0.0	M	100.4
2/15/2021 6:00	10.7	262.0	-23.6	81.1	0.0	0.0	M	100.4
2/15/2021 7:00	9.6	263.5	-23.9	81.0	0.0	0.0	M	100.5
2/15/2021 8:00	10.8	263.5	-24.0	81.4	0.1	0.0	M	100.5
2/15/2021 9:00	9.8	258.6	-23.5	82.1	4.3	0.0	M	100.5
2/15/2021 10:00	9.6	260.9	-23.3	81.7	12.3	0.0	M	100.5
2/15/2021 11:00	10.0	269.1	-24.0	79.8	79.6	0.0	M	100.5
2/15/2021 12:00	9.1	274.0	-24.9	77.8	128.2	1.0	M	100.6
2/15/2021 13:00	7.6	261.4	-25.9	76.7	149.4	1.0	M	100.6
2/15/2021 14:00	8.2	261.6	-26.7	76.8	115.0	0.0	M	100.6
2/15/2021 15:00	7.8	253.7	-27.2	76.5	87.6	0.0	M	100.6
2/15/2021 16:00	8.3	258.7	-27.5	76.9	40.2	0.0	M	100.6
2/15/2021 17:00	7.9	261.2	-27.8	77.1	4.1	0.0	M	100.6
2/15/2021 18:00	9.1	257.9	-27.8	77.3	0.0	0.0	M	100.5
2/15/2021 19:00	9.3	262.3	-27.5	77.7	0.0	0.0	M	100.4
2/15/2021 20:00	10.8	264.3	-27.5	77.5	0.0	0.0	M	100.4
2/15/2021 21:00	10.9	268.0	-27.4	77.0	0.0	0.0	M	100.4
2/15/2021 22:00	10.2	263.7	-27.4	77.2	0.0	0.0	M	100.4
2/15/2021 23:00	9.9	267.2	-27.5	75.9	0.0	0.0	M	100.4
2/16/2021 0:00	7.8	272.8	-28.1	75.8	0.0	0.0	M	100.5
2/16/2021 1:00	6.9	273.1	-29.1	75.7	0.0	0.0	M	100.5
2/16/2021 2:00	7.3	271.9	-29.8	74.9	0.0	0.0	M	100.5
2/16/2021 3:00	7.5	273.3	-30.5	73.7	0.0	0.0	M	100.5
2/16/2021 4:00	5.9	280.1	-31.6	73.1	0.0	0.0	M	100.6
2/16/2021 5:00	5.4	279.3	-32.3	72.9	0.0	0.0	M	100.6
2/16/2021 6:00	5.7	276.8	-32.6	72.5	0.0	0.0	M	100.6
2/16/2021 7:00	6.5	273.9	-32.9	72.6	0.0	0.0	M	100.6
2/16/2021 8:00	7.7	274.5	-33.0	72.6	0.1	0.0	M	100.6
2/16/2021 9:00	9.4	266.4	-32.6	72.6	8.6	0.0	M	100.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/16/2021 10:00	9.8	261.9	-32.4	72.1	44.9	0.0	M	100.6
2/16/2021 11:00	9.7	262.4	-31.5	71.2	98.5	0.0	M	100.5
2/16/2021 12:00	8.5	262.4	-30.8	71.3	143.2	1.0	M	100.6
2/16/2021 13:00	7.9	255.4	-30.3	72.4	122.5	1.0	M	100.6
2/16/2021 14:00	9.0	258.5	-29.7	73.6	90.0	0.0	M	100.5
2/16/2021 15:00	9.1	266.2	-29.4	73.7	75.8	0.0	M	100.6
2/16/2021 16:00	9.8	267.0	-29.5	73.5	43.4	0.0	M	100.6
2/16/2021 17:00	10.1	268.9	-30.5	73.3	4.8	0.0	M	100.6
2/16/2021 18:00	10.1	270.7	-31.4	72.6	0.0	0.0	M	100.7
2/16/2021 19:00	9.3	274.2	-32.0	72.3	0.0	0.0	M	100.7
2/16/2021 20:00	10.0	268.1	-31.8	72.4	0.0	0.0	M	100.6
2/16/2021 21:00	11.0	269.3	-31.4	72.0	0.0	0.0	M	100.6
2/16/2021 22:00	10.9	265.3	-31.6	72.3	0.0	0.0	M	100.6
2/16/2021 23:00	8.9	264.2	-32.0	72.6	0.0	0.0	M	100.7
2/17/2021 0:00	9.7	264.1	-31.8	73.0	0.0	0.0	M	100.7
2/17/2021 1:00	10.3	263.5	-31.5	73.1	0.0	0.0	M	100.7
2/17/2021 2:00	10.1	259.4	-31.4	73.5	0.0	0.0	M	100.7
2/17/2021 3:00	10.1	259.9	-31.3	73.8	0.0	0.0	M	100.7
2/17/2021 4:00	10.8	264.0	-30.8	74.1	0.0	0.0	M	100.7
2/17/2021 5:00	10.0	263.2	-30.6	74.1	0.0	0.0	M	100.7
2/17/2021 6:00	10.9	266.5	-30.3	74.2	0.0	0.0	M	100.7
2/17/2021 7:00	10.7	268.0	-30.0	74.2	0.0	0.0	M	100.7
2/17/2021 8:00	11.4	266.5	-29.5	74.6	0.3	0.0	M	100.7
2/17/2021 9:00	12.6	266.3	-29.5	74.4	10.8	0.0	M	100.7
2/17/2021 10:00	13.0	270.8	-29.2	73.9	50.7	0.0	M	100.7
2/17/2021 11:00	12.0	269.9	-28.4	74.1	105.3	0.0	M	100.7
2/17/2021 12:00	12.8	270.1	-27.5	74.3	140.4	1.0	M	100.7
2/17/2021 13:00	11.6	264.8	-26.9	75.3	162.7	1.0	M	100.7
2/17/2021 14:00	11.6	263.1	-26.3	76.7	129.4	1.0	M	100.7
2/17/2021 15:00	11.5	263.6	-25.9	77.2	70.1	0.0	M	100.7
2/17/2021 16:00	11.8	263.6	-25.6	78.4	31.3	0.0	M	100.7
2/17/2021 17:00	12.3	260.5	-25.2	78.8	5.7	0.0	M	100.7
2/17/2021 18:00	12.4	258.4	-25.4	79.4	0.0	0.0	M	100.7
2/17/2021 19:00	11.5	262.8	-25.2	79.5	0.0	0.0	M	100.7
2/17/2021 20:00	11.3	264.7	-25.3	79.4	0.0	0.0	M	100.7
2/17/2021 21:00	12.7	269.2	-25.2	79.4	0.0	0.0	M	100.6
2/17/2021 22:00	11.1	261.9	-25.1	79.7	0.0	0.0	M	100.6
2/17/2021 23:00	10.7	256.4	-24.9	79.8	0.0	0.0	M	100.6
2/18/2021 0:00	8.4	252.7	-25.0	78.7	0.0	0.0	M	100.6
2/18/2021 1:00	8.6	252.1	-25.4	77.7	0.0	0.0	M	100.6
2/18/2021 2:00	10.7	253.0	-26.0	76.7	0.0	0.0	M	100.5
2/18/2021 3:00	8.0	252.5	-26.0	75.6	0.0	0.0	M	100.5
2/18/2021 4:00	9.2	255.5	-26.1	76.0	0.0	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/18/2021 5:00	10.0	255.3	-26.1	76.1	0.0	0.0	M	100.4
2/18/2021 6:00	10.7	255.3	-26.5	77.0	0.0	0.0	M	100.3
2/18/2021 7:00	10.4	254.4	-26.9	77.0	0.0	0.0	M	100.3
2/18/2021 8:00	9.6	253.4	-27.0	76.9	0.5	0.0	M	100.2
2/18/2021 9:00	11.8	257.1	-26.9	76.8	15.9	0.0	M	100.1
2/18/2021 10:00	12.8	262.6	-27.5	75.8	64.4	0.0	M	100.0
2/18/2021 11:00	13.2	261.3	-28.2	74.5	130.7	1.0	M	100.1
2/18/2021 12:00	12.2	264.2	-28.9	73.1	168.0	1.0	M	100.0
2/18/2021 13:00	12.6	265.8	-29.2	72.6	173.0	1.0	M	100.1
2/18/2021 14:00	11.4	264.0	-29.3	73.2	131.1	1.0	M	100.1
2/18/2021 15:00	11.1	267.4	-28.5	74.3	78.1	0.0	M	100.1
2/18/2021 16:00	9.4	268.6	-28.2	75.1	31.4	0.0	M	100.1
2/18/2021 17:00	9.2	262.6	-28.3	74.5	4.8	0.0	M	100.1
2/18/2021 18:00	9.4	265.2	-28.7	75.5	0.0	0.0	M	100.1
2/18/2021 19:00	8.5	263.2	-28.9	75.7	0.0	0.0	M	100.0
2/18/2021 20:00	6.3	265.4	-29.0	76.1	0.0	0.0	M	100.0
2/18/2021 21:00	5.8	268.2	-28.7	76.4	0.0	0.0	M	100.0
2/18/2021 22:00	6.4	270.6	-28.7	76.5	0.0	0.0	M	100.0
2/18/2021 23:00	3.6	265.5	-28.9	76.5	0.0	0.0	M	100.0
2/19/2021 0:00	2.3	283.3	-28.7	76.9	0.0	0.0	M	99.9
2/19/2021 1:00	4.3	288.0	-28.4	77.3	0.0	0.0	M	99.9
2/19/2021 2:00	2.4	284.9	-28.1	77.1	0.0	0.0	M	99.9
2/19/2021 3:00	2.4	289.7	-28.0	76.8	0.0	0.0	M	99.9
2/19/2021 4:00	2.5	285.0	-27.8	76.4	0.0	0.0	M	99.9
2/19/2021 5:00	1.1	287.4	-27.7	76.4	0.0	0.0	M	99.9
2/19/2021 6:00	1.3	34.9	-27.9	76.4	0.0	0.0	M	99.8
2/19/2021 7:00	0.8	37.8	-28.6	76.3	0.0	0.0	M	99.8
2/19/2021 8:00	0.5	20.9	-29.3	76.5	0.6	0.0	M	99.8
2/19/2021 9:00	0.9	36.1	-29.9	76.0	17.1	0.0	M	99.8
2/19/2021 10:00	1.4	63.7	-29.8	75.8	38.6	0.0	M	99.8
2/19/2021 11:00	1.6	51.5	-29.5	75.2	81.4	0.0	M	99.7
2/19/2021 12:00	2.0	72.2	-29.3	75.5	99.9	0.0	M	99.7
2/19/2021 13:00	3.3	89.9	-28.3	76.7	116.6	0.0	M	99.6
2/19/2021 14:00	4.8	97.4	-27.6	78.0	91.1	0.0	M	99.6
2/19/2021 15:00	5.9	92.2	-27.1	78.4	76.9	0.0	M	99.5
2/19/2021 16:00	6.9	82.3	-27.4	77.9	44.2	0.0	M	99.4
2/19/2021 17:00	7.1	77.7	-27.7	77.9	7.1	0.0	M	99.3
2/19/2021 18:00	6.8	69.2	-27.7	78.0	0.0	0.0	M	99.3
2/19/2021 19:00	6.6	79.3	-27.2	78.6	0.0	0.0	M	99.2
2/19/2021 20:00	7.0	85.3	-26.4	79.3	0.0	0.0	M	99.1
2/19/2021 21:00	6.7	86.6	-25.8	79.8	0.0	0.0	M	99.1
2/19/2021 22:00	6.9	74.9	-25.6	80.0	0.0	0.0	M	98.9
2/19/2021 23:00	7.2	69.7	-25.6	80.0	0.0	0.0	M	98.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/20/2021 0:00	7.3	72.2	-25.8	79.6	0.0	0.0	M	98.9
2/20/2021 1:00	7.2	71.5	-25.9	79.3	0.0	0.0	M	98.8
2/20/2021 2:00	6.6	60.1	-26.1	79.0	0.0	0.0	M	98.8
2/20/2021 3:00	5.5	40.0	-26.4	78.3	0.0	0.0	M	98.9
2/20/2021 4:00	5.1	27.2	-26.9	77.1	0.0	0.0	M	98.9
2/20/2021 5:00	5.3	23.7	-27.4	76.3	0.0	0.0	M	98.9
2/20/2021 6:00	5.2	6.5	-28.2	76.0	0.0	0.0	M	98.9
2/20/2021 7:00	3.3	331.1	-28.8	75.7	0.0	0.0	M	99.0
2/20/2021 8:00	2.6	334.0	-28.7	75.7	0.4	0.0	M	99.0
2/20/2021 9:00	3.4	338.4	-28.4	75.2	12.3	0.0	M	99.0
2/20/2021 10:00	3.2	320.8	-28.0	74.5	46.8	0.0	M	99.0
2/20/2021 11:00	5.0	317.7	-27.8	74.8	57.1	0.0	M	99.1
2/20/2021 12:00	5.4	314.8	-27.6	74.6	94.8	0.0	M	99.2
2/20/2021 13:00	4.7	305.6	-27.6	74.1	113.0	0.0	M	99.2
2/20/2021 14:00	5.8	294.6	-29.1	72.5	100.1	0.0	M	99.3
2/20/2021 15:00	5.3	295.0	-29.4	71.2	121.9	1.0	M	99.3
2/20/2021 16:00	4.5	292.2	-29.8	70.5	76.4	0.0	M	99.4
2/20/2021 17:00	5.5	282.7	-31.0	72.4	7.0	0.0	M	99.4
2/20/2021 18:00	7.4	278.9	-32.5	73.1	0.1	0.0	M	99.4
2/20/2021 19:00	5.5	286.3	-33.0	72.7	0.0	0.0	M	99.4
2/20/2021 20:00	4.7	277.5	-32.9	73.0	0.0	0.0	M	99.4
2/20/2021 21:00	7.3	269.4	-32.5	73.1	0.0	0.0	M	99.5
2/20/2021 22:00	7.9	271.1	-32.6	73.0	0.0	0.0	M	99.5
2/20/2021 23:00	5.9	274.6	-33.0	72.7	0.0	0.0	M	99.4
2/21/2021 0:00	5.7	273.7	-33.1	72.8	0.0	0.0	M	99.4
2/21/2021 1:00	4.3	270.3	-33.3	72.5	0.0	0.0	M	99.4
2/21/2021 2:00	3.4	243.7	-33.2	72.5	0.0	0.0	M	99.4
2/21/2021 3:00	4.2	267.1	-32.9	72.8	0.0	0.0	M	99.4
2/21/2021 4:00	4.1	276.9	-32.6	73.1	0.0	0.0	M	99.3
2/21/2021 5:00	3.7	261.1	-32.4	73.2	0.0	0.0	M	99.3
2/21/2021 6:00	1.6	202.3	-32.6	73.0	0.0	0.0	M	99.3
2/21/2021 7:00	2.5	178.4	-33.1	72.4	0.0	0.0	M	99.3
2/21/2021 8:00	2.3	190.4	-33.2	72.3	0.6	0.0	M	99.2
2/21/2021 9:00	0.6	120.2	-32.8	72.7	14.7	0.0	M	99.2
2/21/2021 10:00	0.8	58.0	-32.4	72.7	55.7	0.0	M	99.1
2/21/2021 11:00	0.7	73.9	-31.4	73.2	105.5	0.0	M	99.1
2/21/2021 12:00	1.2	93.5	-30.8	73.4	139.0	1.0	M	99.1
2/21/2021 13:00	1.1	101.0	-30.4	73.4	132.0	1.0	M	99.0
2/21/2021 14:00	1.6	86.3	-30.5	73.1	106.9	0.0	M	99.0
2/21/2021 15:00	2.1	95.8	-30.2	74.4	79.8	0.0	M	99.0
2/21/2021 16:00	2.3	99.0	-29.9	75.3	39.0	0.0	M	99.0
2/21/2021 17:00	2.0	89.8	-30.1	75.0	17.0	0.0	M	99.0
2/21/2021 18:00	1.6	68.7	-30.5	74.2	0.5	0.0	M	99.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/21/2021 19:00	1.3	83.3	-30.9	74.1	0.0	0.0	M	99.0
2/21/2021 20:00	0.6	86.8	-31.7	73.5	0.0	0.0	M	99.0
2/21/2021 21:00	0.6	46.1	-32.4	73.5	0.0	0.0	M	99.0
2/21/2021 22:00	0.3	123.9	-32.6	72.9	0.0	0.0	M	99.0
2/21/2021 23:00	0.2	73.8	-33.4	72.2	0.0	0.0	M	99.0
2/22/2021 0:00	0.2	232.6	-32.8	72.7	0.0	0.0	M	99.0
2/22/2021 1:00	0.2	84.6	-32.7	72.6	0.0	0.0	M	99.1
2/22/2021 2:00	0.3	129.7	-33.3	72.1	0.0	0.0	M	99.1
2/22/2021 3:00	1.7	269.6	-33.5	72.4	0.0	0.0	M	99.1
2/22/2021 4:00	2.3	277.7	-33.8	72.2	0.0	0.0	M	99.2
2/22/2021 5:00	2.4	283.7	-34.1	71.9	0.0	0.0	M	99.2
2/22/2021 6:00	3.7	283.6	-33.9	72.1	0.0	0.0	M	99.3
2/22/2021 7:00	3.8	269.1	-34.1	72.0	0.0	0.0	M	99.3
2/22/2021 8:00	3.2	281.5	-34.0	71.9	1.3	0.0	M	99.4
2/22/2021 9:00	2.2	259.6	-33.6	71.7	20.2	0.0	M	99.4
2/22/2021 10:00	1.3	238.4	-32.5	71.9	50.6	0.0	M	99.4
2/22/2021 11:00	2.1	257.6	-32.1	70.9	128.5	1.0	M	99.5
2/22/2021 12:00	2.0	265.6	-30.6	72.0	155.9	1.0	M	99.4
2/22/2021 13:00	2.8	271.0	-29.6	72.2	167.2	1.0	M	99.5
2/22/2021 14:00	1.0	227.2	-29.4	72.8	155.0	1.0	M	99.5
2/22/2021 15:00	3.8	254.6	-29.5	72.4	112.3	0.0	M	99.5
2/22/2021 16:00	6.7	268.5	-28.7	71.1	43.7	0.0	M	99.6
2/22/2021 17:00	5.8	261.2	-28.5	73.1	9.8	0.0	M	99.6
2/22/2021 18:00	8.3	254.5	-28.2	74.2	0.2	0.0	M	99.6
2/22/2021 19:00	7.7	254.1	-28.3	73.9	0.0	0.0	M	99.7
2/22/2021 20:00	7.2	259.1	-28.7	73.8	0.0	0.0	M	99.7
2/22/2021 21:00	6.7	270.1	-29.0	74.8	0.0	0.0	M	99.7
2/22/2021 22:00	6.3	288.2	-29.9	75.0	0.0	0.0	M	99.7
2/22/2021 23:00	7.6	282.4	-30.2	73.7	0.0	0.0	M	99.9
2/23/2021 0:00	4.9	282.8	-30.5	73.2	0.0	0.0	M	99.9
2/23/2021 1:00	4.9	282.8	-30.8	74.1	0.0	0.0	M	100.0
2/23/2021 2:00	4.2	277.4	-31.0	74.2	0.0	0.0	M	100.0
2/23/2021 3:00	4.8	267.8	-31.0	74.4	0.0	0.0	M	100.1
2/23/2021 4:00	6.1	269.6	-30.0	75.0	0.0	0.0	M	100.1
2/23/2021 5:00	4.9	279.4	-29.9	75.9	0.0	0.0	M	100.2
2/23/2021 6:00	5.7	280.3	-30.0	75.5	0.0	0.0	M	100.2
2/23/2021 7:00	5.2	273.2	-29.5	76.2	0.0	0.0	M	100.2
2/23/2021 8:00	6.1	269.8	-29.4	76.1	1.9	0.0	M	100.2
2/23/2021 9:00	7.8	261.8	-29.5	75.6	27.1	0.0	M	100.2
2/23/2021 10:00	7.1	259.5	-29.0	75.0	85.6	0.0	M	100.2
2/23/2021 11:00	7.0	259.1	-28.5	74.7	127.2	1.0	M	100.3
2/23/2021 12:00	6.6	261.6	-28.2	74.7	141.5	1.0	M	100.3
2/23/2021 13:00	6.6	259.9	-28.1	74.8	153.0	1.0	M	100.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/23/2021 14:00	6.1	250.3	-28.8	75.1	81.4	0.0	M	100.3
2/23/2021 15:00	6.5	247.5	-28.7	75.6	81.0	0.0	M	100.4
2/23/2021 16:00	8.8	264.4	-28.7	75.6	47.8	0.0	M	100.4
2/23/2021 17:00	9.4	275.2	-30.1	73.3	14.1	0.0	M	100.4
2/23/2021 18:00	11.6	270.0	-31.0	70.4	0.5	0.0	M	100.4
2/23/2021 19:00	12.0	268.4	-31.2	68.0	0.0	0.0	M	100.4
2/23/2021 20:00	11.8	273.1	-30.9	70.6	0.0	0.0	M	100.5
2/23/2021 21:00	10.1	270.0	-31.0	71.7	0.0	0.0	M	100.4
2/23/2021 22:00	10.5	265.8	-31.3	70.5	0.0	0.0	M	100.4
2/23/2021 23:00	9.7	269.4	-32.7	68.5	0.0	0.0	M	100.6
2/24/2021 0:00	9.5	268.4	-33.1	68.0	0.0	0.0	M	100.6
2/24/2021 1:00	10.9	267.3	-32.9	68.8	0.0	0.0	M	100.5
2/24/2021 2:00	11.9	267.7	-33.1	68.4	0.0	0.0	M	100.5
2/24/2021 3:00	10.1	264.3	-33.4	67.8	0.0	0.0	M	100.5
2/24/2021 4:00	9.6	259.0	-33.1	69.1	0.0	0.0	M	100.5
2/24/2021 5:00	7.7	254.1	-33.3	69.8	0.0	0.0	M	100.5
2/24/2021 6:00	7.9	250.9	-32.4	71.0	0.0	0.0	M	100.4
2/24/2021 7:00	9.3	264.4	-32.7	69.3	0.0	0.0	M	100.4
2/24/2021 8:00	7.3	265.6	-33.8	67.7	2.9	0.0	M	100.4
2/24/2021 9:00	6.0	270.0	-34.2	67.2	34.9	0.0	M	100.4
2/24/2021 10:00	6.0	266.1	-34.0	66.0	70.7	0.0	M	100.3
2/24/2021 11:00	4.8	268.5	-33.3	66.3	131.7	1.0	M	100.3
2/24/2021 12:00	4.3	267.8	-32.8	67.1	178.2	1.0	M	100.2
2/24/2021 13:00	4.5	273.9	-32.5	68.1	154.8	1.0	M	100.2
2/24/2021 14:00	5.2	294.6	-32.8	67.4	139.9	1.0	M	100.2
2/24/2021 15:00	5.0	299.7	-33.6	66.8	113.8	0.0	M	100.2
2/24/2021 16:00	6.0	292.6	-35.0	66.6	54.6	0.0	M	100.2
2/24/2021 17:00	5.7	286.2	-35.8	67.0	18.0	0.0	M	100.2
2/24/2021 18:00	5.4	285.0	-35.9	68.0	0.9	0.0	M	100.2
2/24/2021 19:00	6.7	294.0	-36.5	68.6	0.0	0.0	M	99.3
2/24/2021 20:00	6.5	291.3	-36.9	68.3	0.0	0.0	M	98.8
2/24/2021 21:00	7.1	289.9	-36.5	68.5	0.0	0.0	M	99.8
2/24/2021 22:00	7.9	292.3	-37.4	67.3	0.0	0.0	M	97.3
2/24/2021 23:00	8.6	287.8	-38.9	65.8	0.0	0.0	M	93.6
2/25/2021 0:00	9.6	286.7	-38.9	66.2	0.0	0.0	M	94.0
2/25/2021 1:00	12.1	281.9	-38.5	66.7	0.0	0.0	M	94.9
2/25/2021 2:00	12.8	277.1	-38.2	67.0	0.0	0.0	M	95.7
2/25/2021 3:00	11.9	272.6	-38.1	67.2	0.0	0.0	M	96.0
2/25/2021 4:00	12.9	275.2	-37.7	67.7	0.0	0.0	M	97.4
2/25/2021 5:00	15.6	270.0	-37.4	67.7	0.0	0.0	M	97.3
2/25/2021 6:00	14.7	268.7	-37.1	68.1	0.0	0.0	M	98.7
2/25/2021 7:00	14.0	268.5	-36.6	68.7	0.0	0.0	M	99.9
2/25/2021 8:00	12.8	272.2	-35.9	69.5	1.9	0.0	M	99.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/25/2021 9:00	13.7	276.5	-35.3	70.0	17.4	0.0	M	99.8
2/25/2021 10:00	12.4	277.7	-34.8	70.3	50.0	0.0	M	99.8
2/25/2021 11:00	13.5	278.7	-34.2	70.9	70.1	0.0	M	99.7
2/25/2021 12:00	13.1	281.1	-33.5	71.4	109.5	0.0	M	99.7
2/25/2021 13:00	13.0	278.1	-33.4	71.4	123.9	1.0	M	99.8
2/25/2021 14:00	13.1	274.4	-33.4	71.4	101.7	0.0	M	99.7
2/25/2021 15:00	12.5	275.7	-33.1	71.7	80.1	0.0	M	99.8
2/25/2021 16:00	13.4	272.2	-33.3	71.6	50.8	0.0	M	99.8
2/25/2021 17:00	12.5	267.5	-33.4	71.7	17.9	0.0	M	99.7
2/25/2021 18:00	12.3	270.8	-33.5	71.6	0.7	0.0	M	99.8
2/25/2021 19:00	11.4	270.0	-33.5	71.6	0.0	0.0	M	99.8
2/25/2021 20:00	11.6	270.3	-33.4	71.6	0.0	0.0	M	99.7
2/25/2021 21:00	11.9	268.2	-33.4	71.5	0.0	0.0	M	99.8
2/25/2021 22:00	11.5	270.7	-33.0	71.9	0.0	0.0	M	99.8
2/25/2021 23:00	9.9	283.0	-33.2	71.3	0.0	0.0	M	99.8
2/26/2021 0:00	9.8	282.0	-33.4	71.4	0.0	0.0	M	99.8
2/26/2021 1:00	9.6	283.0	-33.2	71.4	0.0	0.0	M	99.8
2/26/2021 2:00	8.8	283.1	-33.2	71.1	0.0	0.0	M	99.8
2/26/2021 3:00	8.5	281.8	-33.0	71.2	0.0	0.0	M	99.9
2/26/2021 4:00	7.4	280.7	-33.1	71.5	0.0	0.0	M	99.9
2/26/2021 5:00	6.1	282.3	-33.1	71.9	0.0	0.0	M	99.9
2/26/2021 6:00	6.6	283.2	-32.7	72.2	0.0	0.0	M	99.9
2/26/2021 7:00	6.6	284.1	-32.4	71.8	0.0	0.0	M	99.9
2/26/2021 8:00	5.9	288.0	-32.6	71.6	3.1	0.0	M	99.9
2/26/2021 9:00	4.9	294.9	-32.6	71.8	29.4	0.0	M	100.0
2/26/2021 10:00	3.9	303.3	-32.7	71.3	77.0	0.0	M	100.0
2/26/2021 11:00	3.8	296.9	-32.8	70.4	144.1	1.0	M	100.1
2/26/2021 12:00	2.8	293.0	-32.6	69.4	181.5	1.0	M	100.1
2/26/2021 13:00	2.4	301.1	-32.4	69.0	195.9	1.0	M	100.2
2/26/2021 14:00	1.4	331.5	-32.3	69.0	193.2	1.0	M	100.3
2/26/2021 15:00	2.2	306.2	-32.8	68.5	160.1	1.0	M	100.3
2/26/2021 16:00	2.6	340.8	-33.9	69.5	101.2	0.0	M	100.3
2/26/2021 17:00	4.4	3.0	-35.7	68.6	28.7	0.0	M	100.4
2/26/2021 18:00	4.8	13.0	-37.5	67.6	1.8	0.0	M	97.1
2/26/2021 19:00	1.8	30.6	-38.5	66.9	0.0	0.0	M	93.4
2/26/2021 20:00	1.5	17.5	-39.2	65.9	0.0	0.0	M	91.2
2/26/2021 21:00	0.7	33.7	-39.8	65.4	0.0	0.0	M	89.6
2/26/2021 22:00	0.8	325.3	-40.7	64.6	0.0	0.0	M	88.6
2/26/2021 23:00	1.4	335.1	-40.4	64.9	0.0	0.0	M	89.0
2/27/2021 0:00	3.4	276.0	-40.9	64.3	0.0	0.0	M	88.6
2/27/2021 1:00	4.6	283.9	-41.5	63.8	0.0	0.0	M	87.8
2/27/2021 2:00	5.6	280.0	-41.8	63.5	0.0	0.0	M	87.3
2/27/2021 3:00	7.9	281.7	-41.7	63.7	0.0	0.0	M	87.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/27/2021 4:00	9.7	283.7	-41.2	64.1	0.0	0.0	M	89.0
2/27/2021 5:00	10.3	279.0	-40.9	64.4	0.0	0.0	M	89.7
2/27/2021 6:00	10.9	275.4	-40.9	64.3	0.0	0.0	M	89.8
2/27/2021 7:00	11.4	276.2	-40.9	64.4	0.0	0.0	M	90.0
2/27/2021 8:00	12.3	276.8	-40.0	65.2	4.1	0.0	M	92.2
2/27/2021 9:00	13.9	268.8	-39.3	65.7	31.4	0.0	M	93.9
2/27/2021 10:00	13.7	272.4	-38.1	66.8	73.8	0.0	M	97.6
2/27/2021 11:00	14.8	269.1	-37.3	67.5	105.3	0.0	M	99.5
2/27/2021 12:00	15.3	274.9	-36.4	68.2	134.9	1.0	M	100.7
2/27/2021 13:00	14.5	275.9	-35.3	69.5	148.6	1.0	M	100.7
2/27/2021 14:00	15.4	277.0	-34.0	70.7	124.8	1.0	M	100.6
2/27/2021 15:00	15.0	274.9	-33.7	71.1	97.1	0.0	M	100.7
2/27/2021 16:00	14.9	273.7	-33.2	71.6	58.0	0.0	M	100.6
2/27/2021 17:00	16.8	271.4	-33.2	71.7	17.0	0.0	M	100.6
2/27/2021 18:00	15.7	273.6	-33.1	71.9	1.2	0.0	M	100.7
2/27/2021 19:00	15.4	275.0	-33.2	72.0	0.0	0.0	M	100.6
2/27/2021 20:00	17.0	272.8	-32.9	72.2	0.0	0.0	M	100.5
2/27/2021 21:00	17.6	272.9	-32.6	72.5	0.0	0.0	M	100.4
2/27/2021 22:00	17.6	271.8	-32.5	72.5	0.0	0.0	M	100.4
2/27/2021 23:00	14.5	273.7	-32.4	72.6	0.0	0.0	M	100.6
2/28/2021 0:00	16.7	272.0	-32.4	72.7	0.0	0.0	M	100.5
2/28/2021 1:00	15.6	268.8	-32.4	72.5	0.0	0.0	M	100.5
2/28/2021 2:00	16.1	269.0	-32.4	72.5	0.0	0.0	M	100.6
2/28/2021 3:00	16.3	271.6	-32.6	72.1	0.0	0.0	M	100.5
2/28/2021 4:00	15.7	265.3	-32.6	72.1	0.0	0.0	M	100.6
2/28/2021 5:00	16.3	266.1	-32.1	72.9	0.0	0.0	M	100.4
2/28/2021 6:00	16.3	268.5	-31.3	73.6	0.0	0.0	M	100.5
2/28/2021 7:00	14.1	266.9	-30.5	74.4	0.0	0.0	M	100.6
2/28/2021 8:00	14.3	270.4	-30.0	74.9	4.4	0.0	M	100.5
2/28/2021 9:00	15.0	270.1	-29.8	75.1	25.3	0.0	M	100.5
2/28/2021 10:00	14.7	266.4	-29.2	75.3	72.1	0.0	M	100.5
2/28/2021 11:00	14.3	267.2	-28.6	76.0	106.5	0.0	M	100.3
2/28/2021 12:00	15.5	267.6	-27.7	76.6	163.4	1.0	M	100.4
2/28/2021 13:00	15.3	266.5	-27.1	77.3	150.9	1.0	M	100.4
2/28/2021 14:00	17.1	267.9	-26.2	78.1	110.1	0.0	M	100.3
2/28/2021 15:00	17.7	267.6	-26.2	78.2	104.5	0.0	M	100.3
2/28/2021 16:00	15.5	270.3	-25.5	79.1	51.8	0.0	M	100.3
2/28/2021 17:00	15.2	269.9	-25.1	79.8	18.8	0.0	M	100.4
2/28/2021 18:00	16.1	265.7	-24.7	80.2	1.8	0.0	M	100.3
2/28/2021 19:00	16.1	266.8	-24.3	80.5	0.0	0.0	M	100.3
2/28/2021 20:00	14.9	269.6	-24.0	81.1	0.0	0.0	M	100.3
2/28/2021 21:00	14.1	271.7	-23.7	81.4	0.0	0.0	M	100.3
2/28/2021 22:00	14.6	268.7	-24.0	81.1	0.0	0.0	M	100.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
2/28/2021 23:00	14.4	270.2	-24.5	80.7	0.0	0.0	M	100.4
3/1/2021 0:00	14.6	270.8	-24.7	80.5	0.0	0.0	M	100.4
3/1/2021 1:00	14.1	272.2	-24.9	80.5	0.0	0.0	M	100.5
3/1/2021 2:00	12.2	273.4	-24.9	80.5	0.0	0.0	M	100.6
3/1/2021 3:00	11.3	271.9	-24.5	81.0	0.0	0.0	M	100.6
3/1/2021 4:00	10.4	272.7	-24.1	81.1	0.0	0.0	M	100.6
3/1/2021 5:00	9.8	271.6	-25.0	80.4	0.0	0.0	M	100.6
3/1/2021 6:00	7.6	276.7	-25.3	80.1	0.0	0.0	M	100.7
3/1/2021 7:00	6.8	281.0	-25.4	80.3	0.1	0.0	M	100.7
3/1/2021 8:00	5.2	293.6	-25.4	80.2	6.6	0.0	M	100.7
3/1/2021 9:00	4.5	295.7	-25.8	79.4	42.0	0.0	M	100.7
3/1/2021 10:00	4.6	293.1	-25.9	79.7	69.5	0.0	M	100.7
3/1/2021 11:00	3.4	292.2	-25.3	79.6	124.7	1.0	M	100.7
3/1/2021 12:00	1.7	37.8	-25.3	79.3	173.4	1.0	M	100.8
3/1/2021 13:00	2.3	57.1	-26.0	78.3	170.7	1.0	M	100.8
3/1/2021 14:00	2.6	61.4	-26.7	77.4	212.9	1.0	M	100.8
3/1/2021 15:00	2.0	79.9	-26.7	77.7	173.1	1.0	M	100.9
3/1/2021 16:00	3.8	86.8	-29.0	76.2	76.6	0.0	M	100.9
3/1/2021 17:00	2.3	85.7	-29.8	75.7	61.9	0.0	M	100.9
3/1/2021 18:00	1.9	56.7	-31.0	74.6	5.2	0.0	M	100.9
3/1/2021 19:00	1.7	76.2	-31.7	74.1	0.0	0.0	M	100.9
3/1/2021 20:00	1.4	61.9	-32.6	73.2	0.0	0.0	M	100.9
3/1/2021 21:00	1.7	90.1	-32.9	73.1	0.0	0.0	M	100.9
3/1/2021 22:00	1.9	138.9	-33.1	72.9	0.0	0.0	M	100.9
3/1/2021 23:00	1.0	118.8	-33.7	72.1	0.0	0.0	M	100.9
3/2/2021 0:00	0.4	137.4	-34.4	71.3	0.0	0.0	M	100.9
3/2/2021 1:00	C	C	-35.0	70.6	0.0	0.0	M	100.6
3/2/2021 2:00	0.2	94.3	-35.7	70.0	0.0	0.0	M	99.2
3/2/2021 3:00	0.2	64.0	-36.1	69.6	0.0	0.0	M	98.2
3/2/2021 4:00	0.1	167.2	-36.2	69.6	0.0	0.0	M	97.2
3/2/2021 5:00	0.3	84.2	-36.7	68.9	0.0	0.0	M	96.9
3/2/2021 6:00	1.2	121.4	-36.4	69.6	0.0	0.0	M	98.5
3/2/2021 7:00	0.8	85.8	-37.1	68.5	0.1	0.0	M	97.5
3/2/2021 8:00	0.8	103.2	-36.7	69.1	16.2	0.0	M	98.2
3/2/2021 9:00	0.3	115.1	-34.6	69.7	76.9	0.0	M	100.7
3/2/2021 10:00	1.1	73.5	-34.7	69.7	118.2	0.0	M	100.7
3/2/2021 11:00	1.7	83.5	-34.4	71.0	126.6	1.0	M	100.8
3/2/2021 12:00	3.2	78.2	-34.5	70.5	120.0	1.0	M	100.8
3/2/2021 13:00	2.7	79.2	-34.4	70.7	128.2	1.0	M	100.8
3/2/2021 14:00	3.7	82.0	-34.3	70.7	115.9	0.0	M	100.8
3/2/2021 15:00	3.6	76.0	-34.2	70.9	87.9	0.0	M	100.8
3/2/2021 16:00	3.8	70.1	-34.5	70.6	47.7	0.0	M	100.8
3/2/2021 17:00	3.0	83.5	-35.4	70.1	14.0	0.0	M	100.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/2/2021 18:00	2.0	66.8	-36.2	69.2	2.5	0.0	M	99.9
3/2/2021 19:00	2.1	81.9	-36.5	69.2	0.0	0.0	M	99.5
3/2/2021 20:00	1.8	75.4	-37.2	68.4	0.0	0.0	M	97.2
3/2/2021 21:00	1.7	102.2	-37.0	68.8	0.0	0.0	M	97.9
3/2/2021 22:00	1.3	83.1	-37.7	67.9	0.0	0.0	M	95.9
3/2/2021 23:00	1.3	110.2	-37.8	67.8	0.0	0.0	M	95.6
3/3/2021 0:00	0.7	78.6	-38.3	67.2	0.0	0.0	M	93.0
3/3/2021 1:00	0.5	89.6	-38.6	66.9	0.0	0.0	M	91.9
3/3/2021 2:00	0.5	94.9	-39.0	66.4	0.0	0.0	M	91.2
3/3/2021 3:00	0.5	105.1	-39.6	65.9	0.0	0.0	M	90.1
3/3/2021 4:00	0.4	133.8	-40.0	65.4	0.0	0.0	M	89.1
3/3/2021 5:00	0.3	50.3	-40.8	64.6	0.0	0.0	M	87.7
3/3/2021 6:00	C	C	-40.5	64.9	0.0	0.0	M	87.8
3/3/2021 7:00	0.3	93.7	-39.9	65.7	0.2	0.0	M	88.6
3/3/2021 8:00	0.5	121.1	-40.1	65.4	24.0	0.0	M	89.7
3/3/2021 9:00	0.3	109.1	-38.3	66.5	92.0	0.0	M	95.5
3/3/2021 10:00	0.1	114.0	-37.3	66.9	114.2	0.0	M	99.5
3/3/2021 11:00	0.2	139.6	-36.1	68.4	165.3	1.0	M	101.9
3/3/2021 12:00	0.3	177.4	-35.3	67.4	214.1	1.0	M	102.0
3/3/2021 13:00	1.7	289.6	-34.4	68.6	211.4	1.0	M	102.1
3/3/2021 14:00	4.3	287.2	-35.1	68.0	196.7	1.0	M	102.2
3/3/2021 15:00	5.6	286.0	-35.0	68.6	165.2	1.0	M	102.3
3/3/2021 16:00	4.3	288.1	-35.2	68.7	113.9	0.0	M	102.4
3/3/2021 17:00	3.7	292.5	-35.7	68.9	48.7	0.0	M	102.5
3/3/2021 18:00	3.6	288.2	-36.1	69.2	4.5	0.0	M	102.7
3/3/2021 19:00	3.0	293.6	-36.0	69.4	0.0	0.0	M	102.5
3/3/2021 20:00	4.4	287.2	-36.0	69.3	0.0	0.0	M	102.9
3/3/2021 21:00	3.3	263.6	-36.3	68.9	0.0	0.0	M	101.5
3/3/2021 22:00	6.0	287.6	-35.9	69.7	0.0	0.0	M	103.1
3/3/2021 23:00	7.7	290.2	-35.0	70.3	0.0	0.0	M	103.1
3/4/2021 0:00	7.1	286.8	-34.9	70.2	0.0	0.0	M	103.3
3/4/2021 1:00	6.6	290.4	-34.7	70.4	0.0	0.0	M	103.4
3/4/2021 2:00	5.8	288.6	-34.5	70.6	0.0	0.0	M	103.5
3/4/2021 3:00	5.2	290.2	-34.6	70.3	0.0	0.0	M	103.6
3/4/2021 4:00	4.8	292.5	-35.0	69.9	0.0	0.0	M	103.7
3/4/2021 5:00	5.1	288.5	-35.2	69.6	0.0	0.0	M	103.7
3/4/2021 6:00	5.6	282.8	-35.1	69.6	0.0	0.0	M	103.9
3/4/2021 7:00	4.4	276.3	-35.4	69.2	0.3	0.0	M	103.9
3/4/2021 8:00	3.7	280.2	-35.3	69.2	11.8	0.0	M	104.0
3/4/2021 9:00	1.1	286.4	-32.8	70.2	53.5	0.0	M	104.0
3/4/2021 10:00	0.8	117.7	-35.0	69.4	103.8	0.0	M	104.1
3/4/2021 11:00	1.2	129.7	-34.7	69.2	193.8	1.0	M	104.2
3/4/2021 12:00	0.9	125.1	-33.0	70.3	238.7	1.0	M	104.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/4/2021 13:00	1.0	142.4	-32.4	70.3	252.9	1.0	M	104.3
3/4/2021 14:00	1.5	139.1	-32.6	70.3	241.4	1.0	M	104.3
3/4/2021 15:00	1.3	134.1	-32.3	71.2	212.6	1.0	M	104.3
3/4/2021 16:00	1.0	102.7	-32.4	71.9	166.1	1.0	M	104.3
3/4/2021 17:00	1.2	115.9	-33.3	71.0	81.4	0.0	M	104.3
3/4/2021 18:00	1.4	122.1	-34.3	70.5	6.4	0.0	M	104.3
3/4/2021 19:00	1.1	117.7	-35.2	69.8	0.0	0.0	M	104.2
3/4/2021 20:00	1.3	107.1	-35.6	69.5	0.0	0.0	M	104.2
3/4/2021 21:00	0.6	101.8	-36.1	69.1	0.0	0.0	M	102.6
3/4/2021 22:00	0.6	73.5	-36.4	68.8	0.0	0.0	M	101.4
3/4/2021 23:00	1.0	71.6	-36.5	68.8	0.0	0.0	M	101.3
3/5/2021 0:00	1.2	68.3	-36.5	68.8	0.0	0.0	M	101.6
3/5/2021 1:00	1.0	84.6	-36.6	68.6	0.0	0.0	M	101.0
3/5/2021 2:00	1.4	105.5	-36.3	68.9	0.0	0.0	M	101.8
3/5/2021 3:00	1.9	121.3	-35.2	70.5	0.0	0.0	M	103.9
3/5/2021 4:00	2.8	121.4	-33.6	72.0	0.0	0.0	M	103.7
3/5/2021 5:00	6.0	136.3	-33.3	72.0	0.0	0.0	M	103.6
3/5/2021 6:00	7.2	136.7	-32.4	72.7	0.0	0.0	M	103.4
3/5/2021 7:00	10.6	135.0	-31.4	73.4	1.7	0.0	M	103.2
3/5/2021 8:00	10.7	133.5	-30.5	73.7	18.8	0.0	M	103.1
3/5/2021 9:00	11.1	126.0	-29.6	74.7	42.5	0.0	M	103.0
3/5/2021 10:00	13.0	126.0	-28.0	76.6	78.4	0.0	M	102.8
3/5/2021 11:00	14.2	129.0	-26.5	78.1	122.6	1.0	M	102.6
3/5/2021 12:00	15.7	127.0	-25.2	79.6	140.5	1.0	M	102.4
3/5/2021 13:00	16.0	124.6	-24.1	80.5	144.9	1.0	M	102.2
3/5/2021 14:00	16.3	125.2	-23.2	81.7	90.8	0.0	M	102.0
3/5/2021 15:00	15.3	123.1	-22.6	82.3	64.3	0.0	M	101.8
3/5/2021 16:00	15.7	122.7	-22.2	82.9	35.1	0.0	M	101.5
3/5/2021 17:00	16.2	122.6	-21.2	83.8	21.4	0.0	M	101.3
3/5/2021 18:00	16.1	120.8	-20.8	84.3	4.6	0.0	M	101.1
3/5/2021 19:00	16.8	127.1	-20.4	84.8	0.0	0.0	M	100.9
3/5/2021 20:00	16.9	129.5	-20.0	85.2	0.0	0.0	M	100.7
3/5/2021 21:00	14.6	131.3	-19.9	85.4	0.0	0.0	M	100.6
3/5/2021 22:00	12.7	135.5	-19.6	85.7	0.0	0.0	M	100.4
3/5/2021 23:00	11.6	136.4	-19.0	86.2	0.0	0.0	M	100.2
3/6/2021 0:00	11.3	138.4	-18.3	86.8	0.0	0.0	M	100.0
3/6/2021 1:00	10.9	139.1	-17.5	87.6	0.0	0.0	M	99.8
3/6/2021 2:00	9.3	146.8	-17.0	87.9	0.0	0.0	M	99.8
3/6/2021 3:00	7.4	149.9	-16.7	88.0	0.0	0.0	M	99.6
3/6/2021 4:00	7.4	156.1	-16.1	88.3	0.0	0.0	M	99.5
3/6/2021 5:00	4.9	155.2	-15.4	88.9	0.0	0.0	M	99.4
3/6/2021 6:00	3.7	142.1	-14.5	89.9	0.0	0.0	M	99.3
3/6/2021 7:00	2.5	148.6	-13.9	90.1	0.1	0.0	M	99.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/6/2021 8:00	3.8	159.6	-13.1	89.7	9.7	0.0	M	99.2
3/6/2021 9:00	1.6	157.4	-12.8	90.0	32.0	0.0	M	99.2
3/6/2021 10:00	1.2	101.7	-12.6	90.0	60.3	0.0	M	99.2
3/6/2021 11:00	1.3	155.3	-12.3	90.0	90.5	0.0	M	99.1
3/6/2021 12:00	0.8	88.4	-11.9	89.9	125.5	1.0	M	99.1
3/6/2021 13:00	0.4	46.5	-11.5	89.9	128.9	1.0	M	99.1
3/6/2021 14:00	1.5	277.1	-11.7	88.8	116.8	0.0	M	99.1
3/6/2021 15:00	2.9	280.4	-12.4	88.7	102.2	0.0	M	99.1
3/6/2021 16:00	5.1	274.0	-13.4	89.3	65.0	0.0	M	99.1
3/6/2021 17:00	6.7	271.5	-14.7	88.7	29.3	0.0	M	99.1
3/6/2021 18:00	5.9	268.8	-15.4	88.1	4.9	0.0	M	99.2
3/6/2021 19:00	7.1	273.4	-15.9	88.3	0.0	0.0	M	99.2
3/6/2021 20:00	6.8	271.4	-16.5	88.0	0.0	0.0	M	99.2
3/6/2021 21:00	7.3	262.5	-17.6	87.3	0.0	0.0	M	99.2
3/6/2021 22:00	10.2	256.4	-18.7	86.5	0.0	0.0	M	99.1
3/6/2021 23:00	10.9	264.2	-19.7	85.7	0.0	0.0	M	99.2
3/7/2021 0:00	8.0	270.9	-20.5	84.8	0.0	0.0	M	99.2
3/7/2021 1:00	7.6	274.0	-21.2	84.6	0.0	0.0	M	99.3
3/7/2021 2:00	6.9	280.1	-21.2	84.8	0.0	0.0	M	99.3
3/7/2021 3:00	8.0	272.2	-19.9	85.9	0.0	0.0	M	99.2
3/7/2021 4:00	9.1	268.5	-19.4	85.8	0.0	0.0	M	99.3
3/7/2021 5:00	8.9	273.9	-19.0	86.3	0.0	0.0	M	99.2
3/7/2021 6:00	10.3	275.6	-18.5	85.8	0.0	0.0	M	99.2
3/7/2021 7:00	9.8	280.5	-18.5	84.9	0.4	0.0	M	99.4
3/7/2021 8:00	9.0	284.0	-18.6	84.5	10.8	0.0	M	99.4
3/7/2021 9:00	10.5	283.6	-18.7	84.3	46.2	0.0	M	99.4
3/7/2021 10:00	10.3	283.1	-18.9	84.0	93.6	0.0	M	99.4
3/7/2021 11:00	10.8	282.6	-19.0	83.3	140.9	1.0	M	99.5
3/7/2021 12:00	10.4	281.6	-19.0	82.8	162.7	1.0	M	99.5
3/7/2021 13:00	11.0	280.8	-19.0	82.4	177.1	1.0	M	99.6
3/7/2021 14:00	10.7	280.0	-19.1	82.5	150.5	1.0	M	99.6
3/7/2021 15:00	10.6	280.1	-19.1	82.9	134.3	1.0	M	99.7
3/7/2021 16:00	11.3	279.5	-19.4	83.1	81.4	0.0	M	99.7
3/7/2021 17:00	11.0	275.4	-19.5	82.9	39.0	0.0	M	99.7
3/7/2021 18:00	11.9	267.4	-19.7	82.4	9.4	0.0	M	99.7
3/7/2021 19:00	11.8	263.6	-20.8	83.7	0.2	0.0	M	99.8
3/7/2021 20:00	11.7	262.2	-21.6	83.6	0.0	0.0	M	99.8
3/7/2021 21:00	12.0	263.7	-22.4	83.2	0.0	0.0	M	99.8
3/7/2021 22:00	13.4	265.5	-22.2	83.1	0.0	0.0	M	99.8
3/7/2021 23:00	13.8	267.1	-22.3	82.4	0.0	0.0	M	99.8
3/8/2021 0:00	14.8	270.3	-22.7	82.1	0.0	0.0	M	99.8
3/8/2021 1:00	14.0	265.2	-22.9	82.3	0.0	0.0	M	99.9
3/8/2021 2:00	12.0	254.7	-23.2	81.8	0.0	0.0	M	99.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/8/2021 3:00	12.9	258.7	-23.7	81.8	0.0	0.0	M	99.9
3/8/2021 4:00	13.2	258.8	-23.9	81.6	0.0	0.0	M	99.8
3/8/2021 5:00	14.0	267.1	-23.5	81.7	0.0	0.0	M	99.9
3/8/2021 6:00	14.0	264.4	-23.4	81.8	0.0	0.0	M	99.8
3/8/2021 7:00	14.2	263.8	-22.9	81.8	1.3	0.0	M	99.9
3/8/2021 8:00	12.7	269.1	-23.3	81.4	20.5	0.0	M	100.0
3/8/2021 9:00	11.9	274.9	-23.8	80.5	75.1	0.0	M	100.0
3/8/2021 10:00	10.9	275.1	-23.8	80.1	155.0	1.0	M	100.0
3/8/2021 11:00	10.8	274.7	-23.2	79.8	223.5	1.0	M	100.1
3/8/2021 12:00	10.9	278.1	-22.6	79.4	288.0	1.0	M	100.1
3/8/2021 13:00	11.6	281.8	-22.1	80.2	263.0	1.0	M	100.1
3/8/2021 14:00	9.9	276.8	-22.5	80.8	188.3	1.0	M	100.2
3/8/2021 15:00	9.5	276.1	-22.7	81.5	122.3	1.0	M	100.2
3/8/2021 16:00	8.4	281.9	-22.9	81.2	66.7	0.0	M	100.3
3/8/2021 17:00	8.0	284.3	-23.2	80.3	45.4	0.0	M	100.3
3/8/2021 18:00	7.7	284.5	-23.4	79.8	9.3	0.0	M	100.3
3/8/2021 19:00	7.3	285.2	-24.0	79.6	0.2	0.0	M	100.4
3/8/2021 20:00	7.1	288.5	-24.2	79.7	0.0	0.0	M	100.4
3/8/2021 21:00	7.8	288.9	-24.8	79.7	0.0	0.0	M	100.4
3/8/2021 22:00	7.1	284.6	-25.4	79.6	0.0	0.0	M	100.4
3/8/2021 23:00	6.7	287.0	-25.7	79.1	0.0	0.0	M	100.4
3/9/2021 0:00	7.8	292.8	-25.5	79.2	0.0	0.0	M	100.4
3/9/2021 1:00	7.0	291.5	-25.2	79.1	0.0	0.0	M	100.4
3/9/2021 2:00	6.9	287.3	-25.7	78.7	0.0	0.0	M	100.4
3/9/2021 3:00	10.2	279.9	-25.8	79.5	0.0	0.0	M	100.4
3/9/2021 4:00	10.9	279.0	-25.0	80.8	0.0	0.0	M	100.4
3/9/2021 5:00	10.3	280.3	-24.3	80.3	0.0	0.0	M	100.5
3/9/2021 6:00	8.1	290.7	-24.1	79.9	0.0	0.0	M	100.6
3/9/2021 7:00	8.2	295.7	-24.4	78.6	1.2	0.0	M	100.6
3/9/2021 8:00	8.6	296.3	-24.5	77.6	26.2	0.0	M	100.6
3/9/2021 9:00	8.7	305.8	-24.4	77.4	55.4	0.0	M	100.6
3/9/2021 10:00	7.3	306.9	-24.7	75.6	148.8	1.0	M	100.7
3/9/2021 11:00	8.0	300.1	-24.8	73.6	257.6	1.0	M	100.7
3/9/2021 12:00	8.2	301.3	-25.4	73.2	228.5	1.0	M	100.8
3/9/2021 13:00	7.5	299.5	-25.4	72.6	281.1	1.0	M	100.8
3/9/2021 14:00	6.4	301.2	-25.3	72.5	281.0	1.0	M	100.9
3/9/2021 15:00	6.3	300.8	-25.2	72.1	228.4	1.0	M	100.9
3/9/2021 16:00	9.0	297.8	-25.3	72.0	175.1	1.0	M	101.0
3/9/2021 17:00	8.8	301.6	-25.9	71.9	99.0	0.0	M	101.1
3/9/2021 18:00	7.0	287.6	-26.7	73.5	15.1	0.0	M	101.1
3/9/2021 19:00	7.0	277.6	-27.8	76.1	0.5	0.0	M	101.1
3/9/2021 20:00	7.6	282.1	-28.2	77.5	0.0	0.0	M	101.1
3/9/2021 21:00	7.9	285.3	-28.1	77.6	0.0	0.0	M	101.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/9/2021 22:00	7.5	276.9	-28.4	77.1	0.0	0.0	M	101.1
3/9/2021 23:00	5.7	279.8	-29.4	76.4	0.0	0.0	M	101.0
3/10/2021 0:00	6.9	283.8	-30.2	75.7	0.0	0.0	M	101.1
3/10/2021 1:00	6.8	278.1	-30.7	75.2	0.0	0.0	M	101.1
3/10/2021 2:00	5.9	277.7	-31.2	74.8	0.0	0.0	M	101.1
3/10/2021 3:00	6.0	280.7	-31.8	74.1	0.0	0.0	M	101.1
3/10/2021 4:00	5.7	284.5	-32.4	73.6	0.0	0.0	M	101.1
3/10/2021 5:00	4.8	296.4	-32.9	73.2	0.0	0.0	M	101.1
3/10/2021 6:00	6.4	292.7	-33.3	72.7	0.0	0.0	M	101.2
3/10/2021 7:00	8.1	282.2	-33.5	72.5	2.8	0.0	M	101.1
3/10/2021 8:00	8.0	287.4	-33.2	72.0	44.5	0.0	M	101.2
3/10/2021 9:00	9.4	281.3	-32.8	71.4	133.1	1.0	M	101.2
3/10/2021 10:00	11.4	286.7	-31.6	71.7	212.5	1.0	M	101.2
3/10/2021 11:00	9.6	284.7	-31.3	71.2	277.1	1.0	M	101.2
3/10/2021 12:00	10.1	281.5	-30.9	71.3	321.4	1.0	M	101.2
3/10/2021 13:00	9.5	279.5	-30.4	71.5	336.3	1.0	M	101.2
3/10/2021 14:00	9.2	284.8	-30.0	71.6	320.6	1.0	M	101.2
3/10/2021 15:00	8.2	281.2	-29.5	72.0	270.7	1.0	M	101.2
3/10/2021 16:00	8.9	276.2	-29.6	72.6	190.8	1.0	M	101.2
3/10/2021 17:00	8.7	272.2	-29.7	73.3	104.6	0.0	M	101.2
3/10/2021 18:00	9.9	267.2	-29.9	74.9	14.4	0.0	M	101.1
3/10/2021 19:00	7.9	267.5	-30.3	75.0	0.5	0.0	M	101.1
3/10/2021 20:00	9.2	274.4	-30.4	75.1	0.0	0.0	M	101.0
3/10/2021 21:00	9.7	275.9	-30.1	74.7	0.0	0.0	M	101.0
3/10/2021 22:00	9.0	273.5	-29.9	74.2	0.0	0.0	M	101.0
3/10/2021 23:00	10.6	278.0	-29.1	73.2	0.0	0.0	M	101.0
3/11/2021 0:00	8.8	268.9	-28.7	73.2	0.0	0.0	M	101.0
3/11/2021 1:00	10.0	267.3	-28.1	73.1	0.0	0.0	M	100.9
3/11/2021 2:00	11.0	264.0	-28.0	73.4	0.0	0.0	M	100.9
3/11/2021 3:00	9.4	267.9	-27.8	73.9	0.0	0.0	M	100.9
3/11/2021 4:00	7.1	273.6	-27.2	72.9	0.0	0.0	M	100.9
3/11/2021 5:00	5.9	282.3	-27.1	73.5	0.0	0.0	M	100.9
3/11/2021 6:00	2.7	283.1	-27.9	75.3	0.0	0.0	M	100.9
3/11/2021 7:00	5.3	275.3	-26.7	75.4	4.0	0.0	M	100.9
3/11/2021 8:00	5.9	285.6	-25.2	72.6	54.7	0.0	M	100.8
3/11/2021 9:00	6.0	269.2	-24.4	69.6	135.4	1.0	M	100.8
3/11/2021 10:00	1.5	182.7	-26.3	69.2	182.1	1.0	M	100.8
3/11/2021 11:00	0.9	135.1	-27.1	74.8	186.9	1.0	M	100.8
3/11/2021 12:00	0.8	130.1	-25.6	71.6	247.2	1.0	M	100.8
3/11/2021 13:00	1.2	165.0	-23.4	64.5	343.7	1.0	M	100.8
3/11/2021 14:00	1.0	197.2	-22.7	62.1	316.6	1.0	M	100.8
3/11/2021 15:00	1.4	328.0	-23.1	63.7	265.0	1.0	M	100.8
3/11/2021 16:00	1.0	102.2	-23.2	66.4	200.9	1.0	M	100.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/11/2021 17:00	0.6	109.7	-24.1	67.6	113.3	0.0	M	100.8
3/11/2021 18:00	0.5	197.8	-26.0	71.4	24.0	0.0	M	100.8
3/11/2021 19:00	0.5	117.2	-27.4	75.4	0.6	0.0	M	100.8
3/11/2021 20:00	0.5	117.7	-28.8	76.2	0.0	0.0	M	100.8
3/11/2021 21:00	0.3	99.8	-29.3	75.8	0.0	0.0	M	100.8
3/11/2021 22:00	0.6	92.1	-30.2	75.7	0.0	0.0	M	100.9
3/11/2021 23:00	1.3	85.3	-30.5	75.4	0.0	0.0	M	100.9
3/12/2021 0:00	1.7	62.3	-29.6	76.2	0.0	0.0	M	100.9
3/12/2021 1:00	2.1	82.5	-30.2	75.3	0.0	0.0	M	101.0
3/12/2021 2:00	2.5	103.5	-30.2	75.8	0.0	0.0	M	101.0
3/12/2021 3:00	2.0	86.3	-30.9	74.8	0.0	0.0	M	101.1
3/12/2021 4:00	1.5	87.3	-30.9	74.7	0.0	0.0	M	101.1
3/12/2021 5:00	1.5	76.5	-31.1	74.6	0.0	0.0	M	101.2
3/12/2021 6:00	1.6	101.3	-31.5	74.2	0.0	0.0	M	101.3
3/12/2021 7:00	1.4	100.2	-31.9	73.8	5.9	0.0	M	101.3
3/12/2021 8:00	1.3	105.1	-30.7	73.8	59.2	0.0	M	101.4
3/12/2021 9:00	1.1	90.3	-30.1	72.5	130.8	1.0	M	101.5
3/12/2021 10:00	0.9	84.2	-28.7	69.1	210.4	1.0	M	101.6
3/12/2021 11:00	0.7	90.7	-27.8	65.1	240.6	1.0	M	101.6
3/12/2021 12:00	1.3	349.7	-27.1	61.7	319.9	1.0	M	101.7
3/12/2021 13:00	1.0	267.4	-25.6	58.7	330.6	1.0	M	101.8
3/12/2021 14:00	2.9	275.8	-27.3	65.0	317.5	1.0	M	101.9
3/12/2021 15:00	4.3	287.2	-26.9	67.5	265.8	1.0	M	102.0
3/12/2021 16:00	4.8	279.0	-27.3	70.4	194.9	1.0	M	102.0
3/12/2021 17:00	5.8	277.9	-27.5	72.5	108.8	0.0	M	102.1
3/12/2021 18:00	6.3	277.9	-28.1	74.6	23.8	0.0	M	102.2
3/12/2021 19:00	5.9	273.3	-28.7	75.8	0.8	0.0	M	102.2
3/12/2021 20:00	6.1	269.2	-29.0	76.5	0.0	0.0	M	102.3
3/12/2021 21:00	6.4	267.7	-28.5	77.2	0.0	0.0	M	102.4
3/12/2021 22:00	6.7	289.6	-28.5	77.2	0.0	0.0	M	102.5
3/12/2021 23:00	7.0	287.4	-28.7	77.0	0.0	0.0	M	102.6
3/13/2021 0:00	6.8	286.5	-28.8	76.9	0.0	0.0	M	102.7
3/13/2021 1:00	6.9	285.8	-28.9	76.8	0.0	0.0	M	102.8
3/13/2021 2:00	7.6	288.2	-29.1	76.5	0.0	0.0	M	102.9
3/13/2021 3:00	7.6	287.3	-29.1	76.5	0.0	0.0	M	103.0
3/13/2021 4:00	5.5	278.5	-29.1	76.4	0.0	0.0	M	103.1
3/13/2021 5:00	6.1	289.6	-28.5	77.1	0.0	0.0	M	103.2
3/13/2021 6:00	6.2	287.2	-27.9	76.9	0.0	0.0	M	103.3
3/13/2021 7:00	7.3	283.8	-29.3	75.2	7.5	0.0	M	103.3
3/13/2021 8:00	5.7	281.1	-28.4	74.3	59.4	0.0	M	103.4
3/13/2021 9:00	7.0	289.0	-27.2	72.0	150.1	1.0	M	103.4
3/13/2021 10:00	7.5	285.0	-27.2	71.8	229.7	1.0	M	103.5
3/13/2021 11:00	6.2	283.6	-26.8	71.2	268.7	1.0	M	103.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/13/2021 12:00	4.6	281.9	-25.9	70.2	309.7	1.0	M	103.5
3/13/2021 13:00	4.0	273.0	-25.4	69.6	324.9	1.0	M	103.6
3/13/2021 14:00	5.8	281.2	-25.5	71.7	299.2	1.0	M	103.6
3/13/2021 15:00	6.0	281.8	-25.3	72.3	252.8	1.0	M	103.6
3/13/2021 16:00	5.3	285.4	-25.3	73.6	172.8	1.0	M	103.6
3/13/2021 17:00	2.5	271.8	-25.5	73.4	91.8	0.0	M	103.6
3/13/2021 18:00	0.7	228.3	-26.3	73.7	30.1	0.0	M	103.5
3/13/2021 19:00	1.3	115.2	-27.1	77.4	1.3	0.0	M	103.5
3/13/2021 20:00	0.8	110.7	-28.3	76.9	0.0	0.0	M	103.5
3/13/2021 21:00	0.8	78.9	-29.1	76.1	0.0	0.0	M	103.5
3/13/2021 22:00	0.6	62.0	-29.4	75.9	0.0	0.0	M	103.4
3/13/2021 23:00	1.1	79.1	-29.2	75.8	0.0	0.0	M	103.4
3/14/2021 0:00	1.2	101.7	-29.1	75.8	0.0	0.0	M	103.4
3/14/2021 1:00	0.3	53.1	-29.4	74.7	0.0	0.0	M	103.3
3/14/2021 2:00	0.9	64.2	-29.3	73.7	0.0	0.0	M	103.3
3/14/2021 3:00	1.2	72.6	-29.2	71.9	0.0	0.0	M	103.3
3/14/2021 4:00	1.4	98.8	-29.1	72.5	0.0	0.0	M	103.2
3/14/2021 5:00	1.5	86.9	-29.7	72.4	0.0	0.0	M	103.2
3/14/2021 6:00	1.3	94.0	-29.7	72.8	0.0	0.0	M	103.2
3/14/2021 7:00	1.3	75.2	-30.0	72.0	7.6	0.0	M	103.1
3/14/2021 8:00	2.0	82.0	-29.6	68.5	68.9	0.0	M	103.1
3/14/2021 9:00	2.3	64.1	-29.1	65.0	170.7	1.0	M	103.1
3/14/2021 10:00	4.0	75.5	-28.3	65.8	235.6	1.0	M	103.0
3/14/2021 11:00	2.9	102.1	-26.1	66.4	267.1	1.0	M	103.0
3/14/2021 12:00	2.1	94.8	-24.5	65.7	274.6	1.0	M	103.0
3/14/2021 13:00	4.2	76.7	-24.7	64.7	312.7	1.0	M	103.0
3/14/2021 14:00	4.7	96.0	-24.5	73.6	308.1	1.0	M	102.9
3/14/2021 15:00	7.3	79.0	-24.9	68.7	255.4	1.0	M	102.8
3/14/2021 16:00	6.9	76.6	-25.1	69.5	172.5	1.0	M	102.8
3/14/2021 17:00	3.6	93.4	-24.7	72.2	60.6	0.0	M	102.8
3/14/2021 18:00	3.5	106.3	-25.1	78.1	19.4	0.0	M	102.8
3/14/2021 19:00	3.2	100.9	-26.1	78.6	1.2	0.0	M	102.7
3/14/2021 20:00	2.9	105.7	-26.5	79.5	0.0	0.0	M	102.6
3/14/2021 21:00	3.8	112.1	-25.5	80.4	0.0	0.0	M	102.6
3/14/2021 22:00	4.7	115.7	-25.2	80.3	0.0	0.0	M	102.6
3/14/2021 23:00	4.0	123.7	-26.0	79.4	0.0	0.0	M	102.5
3/15/2021 0:00	3.1	110.8	-26.6	78.9	0.0	0.0	M	102.5
3/15/2021 1:00	2.3	77.7	-27.1	78.4	0.0	0.0	M	102.4
3/15/2021 2:00	2.5	82.6	-26.7	78.8	0.0	0.0	M	102.3
3/15/2021 3:00	3.1	83.5	-26.7	78.8	0.0	0.0	M	102.2
3/15/2021 4:00	4.6	88.1	-26.1	79.5	0.0	0.0	M	102.1
3/15/2021 5:00	8.3	73.8	-26.3	79.3	0.0	0.0	M	102.0
3/15/2021 6:00	5.4	79.8	-26.1	79.5	0.0	0.0	M	102.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/15/2021 7:00	3.6	95.4	-25.9	79.7	5.5	0.0	M	101.9
3/15/2021 8:00	3.6	96.2	-25.3	80.2	33.7	0.0	M	101.8
3/15/2021 9:00	5.1	98.9	-24.4	81.0	86.9	0.0	M	101.8
3/15/2021 10:00	5.5	95.3	-24.2	80.8	141.7	1.0	M	101.6
3/15/2021 11:00	8.0	82.7	-24.1	80.0	246.2	1.0	M	101.4
3/15/2021 12:00	9.5	78.5	-23.9	78.3	246.4	1.0	M	101.3
3/15/2021 13:00	9.6	77.3	-23.6	75.1	271.1	1.0	M	101.2
3/15/2021 14:00	9.6	76.3	-23.1	71.9	207.2	1.0	M	101.0
3/15/2021 15:00	9.7	75.9	-22.9	71.4	144.0	1.0	M	100.9
3/15/2021 16:00	9.5	75.6	-22.6	71.7	98.5	0.0	M	100.8
3/15/2021 17:00	10.4	68.8	-22.9	74.7	50.8	0.0	M	100.8
3/15/2021 18:00	9.2	75.4	-22.9	77.6	14.5	0.0	M	100.6
3/15/2021 19:00	9.0	67.6	-22.6	79.5	0.8	0.0	M	100.6
3/15/2021 20:00	8.7	69.9	-22.4	80.1	0.0	0.0	M	100.5
3/15/2021 21:00	9.3	69.9	-22.4	80.4	0.0	0.0	M	100.4
3/15/2021 22:00	9.9	57.5	-22.4	80.7	0.0	0.0	M	100.3
3/15/2021 23:00	9.7	52.9	-22.4	81.0	0.0	0.0	M	100.3
3/16/2021 0:00	7.9	50.7	-22.7	80.8	0.0	0.0	M	100.3
3/16/2021 1:00	8.4	52.6	-22.7	80.7	0.0	0.0	M	100.2
3/16/2021 2:00	7.6	55.7	-22.7	80.4	0.0	0.0	M	100.2
3/16/2021 3:00	7.0	48.4	-22.7	80.4	0.0	0.0	M	100.2
3/16/2021 4:00	4.1	42.2	-22.7	79.7	0.0	0.0	M	100.3
3/16/2021 5:00	2.4	8.4	-22.9	79.0	0.0	0.0	M	100.3
3/16/2021 6:00	1.6	304.8	-23.6	78.0	0.0	0.0	M	100.3
3/16/2021 7:00	3.0	300.8	-23.8	77.9	8.2	0.0	M	100.4
3/16/2021 8:00	4.0	309.5	-23.9	73.4	43.6	0.0	M	100.4
3/16/2021 9:00	3.3	287.2	-24.3	67.2	130.6	1.0	M	100.4
3/16/2021 10:00	4.0	277.2	-25.4	68.3	238.1	1.0	M	100.4
3/16/2021 11:00	7.3	284.8	-26.1	72.9	293.8	1.0	M	100.5
3/16/2021 12:00	7.3	281.2	-25.3	72.0	346.4	1.0	M	100.5
3/16/2021 13:00	7.6	280.9	-24.8	70.9	360.5	1.0	M	100.6
3/16/2021 14:00	7.6	274.4	-24.9	73.6	321.1	1.0	M	100.6
3/16/2021 15:00	8.2	271.6	-24.1	75.9	265.8	1.0	M	100.6
3/16/2021 16:00	9.6	267.9	-23.8	77.2	195.5	1.0	M	100.6
3/16/2021 17:00	11.0	267.5	-23.9	77.6	113.0	0.0	M	100.6
3/16/2021 18:00	10.2	269.2	-23.7	73.8	51.2	0.0	M	100.6
3/16/2021 19:00	10.8	265.9	-23.4	73.9	2.6	0.0	M	100.6
3/16/2021 20:00	10.7	262.2	-23.9	78.1	0.0	0.0	M	100.6
3/16/2021 21:00	9.1	260.6	-24.6	78.8	0.0	0.0	M	100.7
3/16/2021 22:00	10.6	263.6	-24.0	80.4	0.0	0.0	M	100.6
3/16/2021 23:00	12.9	264.9	-23.3	81.2	0.0	0.0	M	100.6
3/17/2021 0:00	11.5	260.1	-23.2	81.2	0.0	0.0	M	100.6
3/17/2021 1:00	10.4	254.7	-22.8	81.9	0.0	0.0	M	100.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/17/2021 2:00	8.2	253.0	-22.9	81.8	0.0	0.0	M	100.6
3/17/2021 3:00	10.6	258.0	-22.7	81.4	0.0	0.0	M	100.6
3/17/2021 4:00	10.8	261.0	-22.6	80.5	0.0	0.0	M	100.6
3/17/2021 5:00	11.4	261.2	-22.5	78.1	0.0	0.0	M	100.6
3/17/2021 6:00	9.1	254.7	-22.8	77.9	0.2	0.0	M	100.6
3/17/2021 7:00	11.1	261.0	-22.9	77.9	8.1	0.0	M	100.5
3/17/2021 8:00	11.5	257.4	-22.9	78.1	77.0	0.0	M	100.5
3/17/2021 9:00	10.9	252.7	-22.6	78.2	159.7	1.0	M	100.6
3/17/2021 10:00	11.1	253.1	-22.3	76.6	252.5	1.0	M	100.6
3/17/2021 11:00	6.9	247.2	-22.1	74.9	276.4	1.0	M	100.7
3/17/2021 12:00	8.7	245.6	-21.5	74.9	360.7	1.0	M	100.6
3/17/2021 13:00	12.3	255.2	-21.7	77.7	380.4	1.0	M	100.6
3/17/2021 14:00	10.8	259.4	-21.3	77.0	349.7	1.0	M	100.6
3/17/2021 15:00	9.8	246.9	-21.4	77.3	170.0	1.0	M	100.6
3/17/2021 16:00	10.1	254.7	-21.2	75.9	246.3	1.0	M	100.6
3/17/2021 17:00	10.3	255.3	-21.5	75.5	96.7	0.0	M	100.6
3/17/2021 18:00	5.5	225.3	-21.5	74.4	47.5	0.0	M	100.7
3/17/2021 19:00	5.6	230.6	-21.8	73.5	3.5	0.0	M	100.6
3/17/2021 20:00	6.4	243.5	-22.1	73.4	0.0	0.0	M	100.6
3/17/2021 21:00	5.5	234.9	-22.3	72.3	0.0	0.0	M	100.5
3/17/2021 22:00	5.8	230.9	-22.4	71.3	0.0	0.0	M	100.5
3/17/2021 23:00	4.0	205.2	-23.3	71.6	0.0	0.0	M	100.5
3/18/2021 0:00	1.1	142.1	-25.6	77.9	0.0	0.0	M	100.4
3/18/2021 1:00	1.4	128.2	-25.6	78.5	0.0	0.0	M	100.4
3/18/2021 2:00	0.6	132.0	-26.7	78.3	0.0	0.0	M	100.3
3/18/2021 3:00	0.6	175.6	-27.9	77.6	0.0	0.0	M	100.3
3/18/2021 4:00	0.8	114.3	-29.1	76.9	0.0	0.0	M	100.2
3/18/2021 5:00	0.5	91.2	-29.4	76.4	0.0	0.0	M	100.2
3/18/2021 6:00	0.3	53.0	-30.0	75.9	0.4	0.0	M	100.2
3/18/2021 7:00	0.3	40.3	-29.8	75.5	22.9	0.0	M	100.1
3/18/2021 8:00	0.3	152.8	-28.2	76.3	78.9	0.0	M	100.2
3/18/2021 9:00	0.6	95.0	-26.8	74.1	161.4	1.0	M	100.2
3/18/2021 10:00	0.4	42.5	-26.1	70.7	198.8	1.0	M	100.2
3/18/2021 11:00	0.3	38.9	-24.5	66.4	254.8	1.0	M	100.2
3/18/2021 12:00	0.2	95.5	-23.0	63.4	226.5	1.0	M	100.3
3/18/2021 13:00	0.6	160.6	-22.0	61.8	364.0	1.0	M	100.3
3/18/2021 14:00	0.6	170.2	-19.9	56.8	365.9	1.0	M	100.3
3/18/2021 15:00	1.0	210.8	-20.5	61.1	312.3	1.0	M	100.4
3/18/2021 16:00	1.0	162.9	-22.2	66.7	242.1	1.0	M	100.4
3/18/2021 17:00	0.9	162.6	-22.9	69.9	152.8	1.0	M	100.5
3/18/2021 18:00	0.4	79.0	-23.7	70.4	61.4	0.0	M	100.5
3/18/2021 19:00	2.4	271.0	-25.1	75.7	4.5	0.0	M	100.6
3/18/2021 20:00	3.9	276.0	-24.8	75.6	0.0	0.0	M	100.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/18/2021 21:00	4.6	260.2	-25.2	75.4	0.0	0.0	M	100.6
3/18/2021 22:00	3.6	261.0	-25.2	75.8	0.0	0.0	M	100.6
3/18/2021 23:00	4.7	285.9	-24.5	75.0	0.0	0.0	M	100.7
3/19/2021 0:00	2.7	262.2	-25.7	75.4	0.0	0.0	M	100.8
3/19/2021 1:00	0.9	99.5	-28.7	76.3	0.0	0.0	M	100.8
3/19/2021 2:00	1.2	235.5	-29.0	77.2	0.0	0.0	M	100.8
3/19/2021 3:00	1.2	169.0	-28.5	77.0	0.0	0.0	M	100.9
3/19/2021 4:00	0.7	149.2	-30.3	75.4	0.0	0.0	M	100.9
3/19/2021 5:00	0.3	170.2	-30.7	75.0	0.0	0.0	M	100.9
3/19/2021 6:00	0.7	103.3	-30.7	75.0	0.6	0.0	M	101.0
3/19/2021 7:00	0.3	236.4	-30.4	74.9	25.0	0.0	M	101.0
3/19/2021 8:00	0.3	139.2	-28.0	75.2	108.9	0.0	M	101.0
3/19/2021 9:00	0.3	116.0	-26.3	72.7	220.4	1.0	M	101.1
3/19/2021 10:00	0.3	53.1	-25.5	65.8	290.5	1.0	M	101.1
3/19/2021 11:00	0.2	184.8	-25.7	62.5	167.3	1.0	M	101.1
3/19/2021 12:00	0.3	116.2	-24.7	63.0	220.7	1.0	M	101.1
3/19/2021 13:00	0.5	115.3	-23.3	62.5	384.8	1.0	M	101.1
3/19/2021 14:00	0.9	142.7	-22.9	62.5	389.9	1.0	M	101.2
3/19/2021 15:00	0.9	157.6	-22.6	63.4	328.5	1.0	M	101.2
3/19/2021 16:00	0.8	217.5	-21.8	63.0	252.4	1.0	M	101.2
3/19/2021 17:00	1.1	244.8	-23.4	68.1	161.7	1.0	M	101.1
3/19/2021 18:00	1.5	293.2	-24.3	70.9	71.2	0.0	M	101.1
3/19/2021 19:00	1.4	280.1	-25.7	76.3	4.4	0.0	M	101.2
3/19/2021 20:00	1.5	260.4	-27.2	78.7	0.0	0.0	M	101.2
3/19/2021 21:00	1.9	266.2	-26.5	79.2	0.0	0.0	M	101.2
3/19/2021 22:00	1.7	260.5	-27.5	78.5	0.0	0.0	M	101.2
3/19/2021 23:00	0.3	221.6	-28.8	76.9	0.0	0.0	M	101.2
3/20/2021 0:00	0.3	141.9	-29.7	75.8	0.0	0.0	M	101.1
3/20/2021 1:00	0.5	125.1	-30.2	75.6	0.0	0.0	M	101.1
3/20/2021 2:00	0.5	107.3	-30.6	75.2	0.0	0.0	M	101.1
3/20/2021 3:00	0.5	115.2	-31.2	74.5	0.0	0.0	M	101.1
3/20/2021 4:00	0.6	87.0	-31.5	74.3	0.0	0.0	M	101.0
3/20/2021 5:00	0.3	138.4	-31.2	74.5	0.0	0.0	M	101.0
3/20/2021 6:00	0.4	333.8	-31.4	74.3	0.5	0.0	M	101.0
3/20/2021 7:00	1.0	45.0	-30.9	75.1	13.5	0.0	M	101.0
3/20/2021 8:00	2.6	279.6	-28.3	76.3	52.9	0.0	M	101.0
3/20/2021 9:00	2.3	288.9	-26.9	75.9	141.7	1.0	M	101.0
3/20/2021 10:00	2.1	282.6	-26.6	76.1	175.6	1.0	M	101.0
3/20/2021 11:00	4.2	280.6	-27.1	75.3	242.0	1.0	M	101.0
3/20/2021 12:00	5.1	286.6	-26.5	76.1	260.5	1.0	M	101.0
3/20/2021 13:00	4.1	285.4	-26.0	76.7	269.1	1.0	M	101.0
3/20/2021 14:00	3.0	280.4	-25.7	76.8	244.6	1.0	M	101.0
3/20/2021 15:00	3.9	286.8	-25.9	77.2	203.9	1.0	M	101.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/20/2021 16:00	3.5	283.7	-26.2	77.4	137.9	1.0	M	101.0
3/20/2021 17:00	4.0	282.1	-27.0	77.4	76.4	0.0	M	101.0
3/20/2021 18:00	3.9	297.2	-27.2	78.1	29.2	0.0	M	101.0
3/20/2021 19:00	4.4	307.7	-26.9	78.6	4.8	0.0	M	101.1
3/20/2021 20:00	2.8	280.8	-27.7	77.6	0.0	0.0	M	101.2
3/20/2021 21:00	3.4	303.2	-27.6	78.0	0.0	0.0	M	101.2
3/20/2021 22:00	2.9	342.6	-27.0	77.7	0.0	0.0	M	101.2
3/20/2021 23:00	4.5	7.9	-27.1	76.7	0.0	0.0	M	101.2
3/21/2021 0:00	4.3	359.9	-27.2	75.7	0.0	0.0	M	101.3
3/21/2021 1:00	5.4	356.4	-27.6	74.6	0.0	0.0	M	101.3
3/21/2021 2:00	4.4	10.0	-28.4	74.1	0.0	0.0	M	101.4
3/21/2021 3:00	5.4	15.1	-29.4	73.3	0.0	0.0	M	101.4
3/21/2021 4:00	6.1	20.1	-30.8	72.0	0.0	0.0	M	101.5
3/21/2021 5:00	6.2	17.3	-32.2	70.8	0.0	0.0	M	101.6
3/21/2021 6:00	6.5	9.6	-33.6	69.6	1.3	0.0	M	101.6
3/21/2021 7:00	6.2	355.9	-34.1	68.3	22.5	0.0	M	101.7
3/21/2021 8:00	4.0	353.7	-33.9	66.3	81.3	0.0	M	101.8
3/21/2021 9:00	4.8	2.1	-33.9	65.4	133.6	1.0	M	101.8
3/21/2021 10:00	3.8	12.8	-32.7	63.8	234.5	1.0	M	101.9
3/21/2021 11:00	4.2	348.6	-32.2	63.4	277.7	1.0	M	102.0
3/21/2021 12:00	4.8	351.0	-31.3	62.9	354.2	1.0	M	102.1
3/21/2021 13:00	4.2	347.0	-30.4	61.8	391.9	1.0	M	102.1
3/21/2021 14:00	4.1	334.1	-29.7	61.5	379.5	1.0	M	102.2
3/21/2021 15:00	4.3	320.1	-29.7	63.3	332.8	1.0	M	102.2
3/21/2021 16:00	4.9	294.1	-30.3	62.8	262.5	1.0	M	102.2
3/21/2021 17:00	5.2	291.0	-30.7	64.2	172.1	1.0	M	102.3
3/21/2021 18:00	4.9	289.4	-31.3	65.7	79.4	0.0	M	102.4
3/21/2021 19:00	5.0	278.4	-32.2	67.6	8.3	0.0	M	102.4
3/21/2021 20:00	5.4	284.0	-32.6	68.3	0.1	0.0	M	102.4
3/21/2021 21:00	3.1	293.3	-32.8	69.0	0.0	0.0	M	102.4
3/21/2021 22:00	4.3	292.7	-33.3	69.6	0.0	0.0	M	102.4
3/21/2021 23:00	6.6	285.4	-33.4	69.3	0.0	0.0	M	102.4
3/22/2021 0:00	6.8	280.8	-33.6	69.2	0.0	0.0	M	102.5
3/22/2021 1:00	8.0	285.1	-33.9	69.4	0.0	0.0	M	102.5
3/22/2021 2:00	7.1	282.1	-33.8	69.2	0.0	0.0	M	102.6
3/22/2021 3:00	7.5	282.3	-33.3	68.3	0.0	0.0	M	102.6
3/22/2021 4:00	9.2	277.1	-32.6	67.0	0.0	0.0	M	102.6
3/22/2021 5:00	7.3	280.8	-32.2	65.6	0.0	0.0	M	102.6
3/22/2021 6:00	8.5	285.0	-32.4	65.4	1.5	0.0	M	102.6
3/22/2021 7:00	7.4	281.0	-32.4	65.0	30.0	0.0	M	102.6
3/22/2021 8:00	8.9	284.2	-31.9	65.0	108.0	0.0	M	102.6
3/22/2021 9:00	8.4	281.6	-31.6	65.3	209.2	1.0	M	102.6
3/22/2021 10:00	9.1	277.4	-31.0	64.9	293.3	1.0	M	102.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/22/2021 11:00	10.1	275.3	-30.5	64.9	358.0	1.0	M	102.7
3/22/2021 12:00	10.3	274.6	-30.0	66.6	400.1	1.0	M	102.7
3/22/2021 13:00	10.3	272.9	-29.5	67.7	410.4	1.0	M	102.7
3/22/2021 14:00	10.3	272.1	-29.0	68.5	390.5	1.0	M	102.8
3/22/2021 15:00	12.4	274.1	-28.7	69.0	340.4	1.0	M	102.7
3/22/2021 16:00	11.5	273.1	-28.7	69.8	264.3	1.0	M	102.8
3/22/2021 17:00	10.6	272.5	-28.8	71.3	174.2	1.0	M	102.8
3/22/2021 18:00	10.5	275.6	-29.1	71.7	83.6	0.0	M	102.8
3/22/2021 19:00	9.4	274.4	-29.8	72.4	10.0	0.0	M	102.9
3/22/2021 20:00	9.3	275.5	-30.3	72.4	0.1	0.0	M	102.9
3/22/2021 21:00	9.1	276.7	-30.7	72.5	0.0	0.0	M	102.9
3/22/2021 22:00	7.7	280.4	-31.0	72.3	0.0	0.0	M	103.0
3/22/2021 23:00	7.1	281.5	-31.3	72.4	0.0	0.0	M	103.0
3/23/2021 0:00	8.6	276.1	-31.4	72.1	0.0	0.0	M	103.0
3/23/2021 1:00	9.8	275.9	-31.8	72.4	0.0	0.0	M	103.0
3/23/2021 2:00	8.5	281.4	-32.1	72.6	0.0	0.0	M	103.1
3/23/2021 3:00	7.3	282.5	-32.0	72.4	0.0	0.0	M	103.1
3/23/2021 4:00	7.0	278.0	-31.9	71.4	0.0	0.0	M	103.1
3/23/2021 5:00	8.0	273.0	-31.7	70.0	0.0	0.0	M	103.1
3/23/2021 6:00	8.2	281.6	-31.7	69.9	2.1	0.0	M	103.1
3/23/2021 7:00	8.3	276.2	-30.8	66.6	37.2	0.0	M	103.1
3/23/2021 8:00	9.0	268.5	-29.7	62.6	117.2	0.0	M	103.1
3/23/2021 9:00	7.4	273.2	-29.1	60.5	217.4	1.0	M	103.1
3/23/2021 10:00	6.7	270.1	-28.4	59.7	303.0	1.0	M	103.1
3/23/2021 11:00	6.9	273.7	-27.7	60.3	367.0	1.0	M	103.1
3/23/2021 12:00	6.3	282.1	-27.1	60.8	408.6	1.0	M	103.1
3/23/2021 13:00	4.6	277.5	-26.4	59.9	418.5	1.0	M	103.1
3/23/2021 14:00	4.1	280.6	-25.9	59.3	398.4	1.0	M	103.1
3/23/2021 15:00	5.3	284.8	-25.8	60.7	348.5	1.0	M	103.1
3/23/2021 16:00	4.6	284.3	-25.7	61.9	273.9	1.0	M	103.0
3/23/2021 17:00	4.9	280.0	-26.0	63.1	182.4	1.0	M	103.0
3/23/2021 18:00	3.2	285.5	-26.4	63.8	88.1	0.0	M	102.9
3/23/2021 19:00	1.4	268.8	-27.4	65.0	13.0	0.0	M	102.9
3/23/2021 20:00	0.4	157.4	-29.1	69.1	0.1	0.0	M	102.9
3/23/2021 21:00	0.3	170.9	-30.2	71.0	0.0	0.0	M	102.8
3/23/2021 22:00	0.3	88.5	-31.5	72.4	0.0	0.0	M	102.8
3/23/2021 23:00	0.4	84.3	-32.3	72.7	0.0	0.0	M	102.7
3/24/2021 0:00	0.6	82.1	-33.0	72.2	0.0	0.0	M	102.7
3/24/2021 1:00	0.8	82.2	-33.4	71.8	0.0	0.0	M	102.7
3/24/2021 2:00	0.8	95.1	-33.7	71.5	0.0	0.0	M	102.6
3/24/2021 3:00	0.5	85.9	-33.7	71.3	0.0	0.0	M	102.6
3/24/2021 4:00	0.9	101.6	-34.0	71.1	0.0	0.0	M	102.6
3/24/2021 5:00	0.7	92.3	-33.9	71.1	0.0	0.0	M	102.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/24/2021 6:00	0.8	98.5	-34.1	70.7	3.2	0.0	M	102.5
3/24/2021 7:00	0.7	81.4	-32.7	69.8	47.1	0.0	M	102.4
3/24/2021 8:00	0.5	56.4	-30.4	62.5	129.5	1.0	M	102.4
3/24/2021 9:00	0.7	59.2	-29.7	57.4	240.4	1.0	M	102.4
3/24/2021 10:00	0.7	70.7	-28.0	54.0	330.9	1.0	M	102.4
3/24/2021 11:00	0.3	80.7	-25.6	50.1	295.3	1.0	M	102.3
3/24/2021 12:00	0.4	69.9	-24.0	50.0	311.2	1.0	M	102.3
3/24/2021 13:00	1.2	92.7	-22.0	54.4	407.2	1.0	M	102.2
3/24/2021 14:00	5.4	179.0	-20.9	56.1	404.3	1.0	M	102.2
3/24/2021 15:00	7.0	159.4	-21.0	62.0	362.5	1.0	M	102.2
3/24/2021 16:00	5.4	147.0	-20.9	62.0	282.0	1.0	M	102.1
3/24/2021 17:00	4.3	137.9	-21.3	69.9	192.1	1.0	M	102.1
3/24/2021 18:00	3.4	159.8	-22.9	66.7	83.7	0.0	M	102.1
3/24/2021 19:00	1.3	158.1	-23.9	69.3	13.2	0.0	M	102.1
3/24/2021 20:00	2.6	129.6	-25.2	71.3	0.1	0.0	M	102.0
3/24/2021 21:00	3.4	144.5	-25.8	71.6	0.0	0.0	M	102.0
3/24/2021 22:00	3.8	134.5	-25.7	70.6	0.0	0.0	M	101.9
3/24/2021 23:00	4.8	159.3	-26.2	66.8	0.0	0.0	M	101.9
3/25/2021 0:00	3.5	141.9	-25.6	72.7	0.0	0.0	M	101.8
3/25/2021 1:00	3.6	113.3	-25.5	77.4	0.0	0.0	M	101.8
3/25/2021 2:00	3.3	97.6	-26.4	73.3	0.0	0.0	M	101.7
3/25/2021 3:00	3.0	89.0	-25.9	72.9	0.0	0.0	M	101.7
3/25/2021 4:00	2.5	137.9	-25.2	72.2	0.0	0.0	M	101.7
3/25/2021 5:00	5.1	184.0	-23.6	70.4	0.0	0.0	M	101.6
3/25/2021 6:00	7.2	157.2	-24.5	72.1	3.7	0.0	M	101.5
3/25/2021 7:00	8.6	167.3	-23.7	70.7	34.4	0.0	M	101.5
3/25/2021 8:00	8.4	162.7	-23.1	69.7	106.7	0.0	M	101.4
3/25/2021 9:00	7.1	164.2	-22.5	69.3	203.2	1.0	M	101.2
3/25/2021 10:00	9.2	163.5	-21.2	70.2	274.9	1.0	M	101.2
3/25/2021 11:00	12.0	171.2	-20.6	70.7	355.2	1.0	M	101.1
3/25/2021 12:00	9.6	170.1	-19.6	71.8	347.2	1.0	M	101.0
3/25/2021 13:00	10.7	175.0	-18.6	71.1	410.6	1.0	M	101.0
3/25/2021 14:00	9.0	173.8	-18.3	71.5	381.5	1.0	M	101.0
3/25/2021 15:00	10.3	176.4	-18.5	72.7	307.0	1.0	M	100.9
3/25/2021 16:00	8.6	198.6	-18.3	71.3	221.3	1.0	M	100.9
3/25/2021 17:00	8.6	198.9	-18.6	72.3	134.2	1.0	M	100.8
3/25/2021 18:00	6.8	182.1	-18.9	73.9	62.9	0.0	M	100.8
3/25/2021 19:00	6.5	173.5	-19.2	75.2	13.9	0.0	M	100.8
3/25/2021 20:00	5.5	164.8	-20.3	76.8	0.2	0.0	M	100.8
3/25/2021 21:00	4.1	154.2	-21.6	78.3	0.0	0.0	M	100.7
3/25/2021 22:00	4.8	148.9	-22.0	78.7	0.0	0.0	M	100.7
3/25/2021 23:00	4.3	134.7	-22.0	78.6	0.0	0.0	M	100.6
3/26/2021 0:00	4.7	145.7	-22.3	78.5	0.0	0.0	M	100.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/26/2021 1:00	3.8	141.8	-21.7	79.2	0.0	0.0	M	100.6
3/26/2021 2:00	2.9	147.8	-21.5	80.2	0.0	0.0	M	100.6
3/26/2021 3:00	1.9	132.8	-21.3	81.3	0.0	0.0	M	100.5
3/26/2021 4:00	2.2	146.6	-22.3	81.5	0.0	0.0	M	100.5
3/26/2021 5:00	1.4	125.8	-23.3	81.3	0.0	0.0	M	100.4
3/26/2021 6:00	1.5	114.9	-24.6	80.7	2.6	0.0	M	100.4
3/26/2021 7:00	0.8	87.7	-25.1	79.4	34.4	0.0	M	100.4
3/26/2021 8:00	0.4	97.8	-23.4	74.5	133.5	1.0	M	100.4
3/26/2021 9:00	0.2	77.2	-21.5	66.3	249.0	1.0	M	100.3
3/26/2021 10:00	0.2	74.2	-20.0	59.4	316.4	1.0	M	100.3
3/26/2021 11:00	0.3	161.7	-20.5	61.2	259.5	1.0	M	100.3
3/26/2021 12:00	2.2	255.4	-20.6	68.1	401.0	1.0	M	100.3
3/26/2021 13:00	2.1	280.9	-19.7	70.5	411.0	1.0	M	100.3
3/26/2021 14:00	3.0	281.5	-19.8	73.7	323.7	1.0	M	100.3
3/26/2021 15:00	3.9	285.1	-19.2	75.9	355.2	1.0	M	100.3
3/26/2021 16:00	4.3	276.7	-18.7	77.0	294.2	1.0	M	100.3
3/26/2021 17:00	5.0	277.4	-19.0	80.7	146.3	1.0	M	100.3
3/26/2021 18:00	6.1	269.6	-18.8	81.9	62.7	0.0	M	100.4
3/26/2021 19:00	7.0	260.9	-19.3	83.7	13.4	0.0	M	100.4
3/26/2021 20:00	7.3	265.2	-20.4	83.9	0.3	0.0	M	100.4
3/26/2021 21:00	6.7	274.3	-21.8	83.1	0.0	0.0	M	100.4
3/26/2021 22:00	8.9	275.3	-22.5	82.2	0.0	0.0	M	100.5
3/26/2021 23:00	8.4	275.2	-22.4	82.0	0.0	0.0	M	100.5
3/27/2021 0:00	10.2	279.8	-22.9	81.1	0.0	0.0	M	100.5
3/27/2021 1:00	9.2	282.4	-23.9	81.1	0.0	0.0	M	100.6
3/27/2021 2:00	7.3	278.2	-24.6	80.7	0.0	0.0	M	100.7
3/27/2021 3:00	8.2	284.5	-25.4	80.4	0.0	0.0	M	100.7
3/27/2021 4:00	8.2	289.6	-26.3	79.7	0.0	0.0	M	100.7
3/27/2021 5:00	7.3	286.0	-26.2	79.8	0.0	0.0	M	100.8
3/27/2021 6:00	8.1	285.4	-26.5	79.4	5.4	0.0	M	100.8
3/27/2021 7:00	8.5	285.5	-26.5	78.6	51.8	0.0	M	100.9
3/27/2021 8:00	9.4	286.0	-26.1	77.8	130.8	1.0	M	100.9
3/27/2021 9:00	8.7	284.9	-26.1	76.6	249.1	1.0	M	101.0
3/27/2021 10:00	5.4	295.5	-24.8	75.9	336.1	1.0	M	101.0
3/27/2021 11:00	5.7	280.7	-24.3	75.4	410.3	1.0	M	101.0
3/27/2021 12:00	6.6	278.3	-23.9	75.7	455.1	1.0	M	101.1
3/27/2021 13:00	6.9	283.3	-23.7	75.0	462.2	1.0	M	101.1
3/27/2021 14:00	6.0	275.5	-23.6	74.7	435.9	1.0	M	101.2
3/27/2021 15:00	5.9	284.9	-23.2	74.0	397.2	1.0	M	101.2
3/27/2021 16:00	6.2	280.9	-23.7	74.9	301.1	1.0	M	101.2
3/27/2021 17:00	7.5	280.5	-24.1	76.4	207.4	1.0	M	101.2
3/27/2021 18:00	4.8	282.4	-24.4	76.2	109.5	0.0	M	101.3
3/27/2021 19:00	2.6	290.9	-25.0	77.6	25.5	0.0	M	101.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/27/2021 20:00	2.1	278.3	-26.4	79.0	0.8	0.0	M	101.3
3/27/2021 21:00	2.1	272.8	-27.3	79.2	0.0	0.0	M	101.3
3/27/2021 22:00	2.2	270.0	-27.7	78.7	0.0	0.0	M	101.3
3/27/2021 23:00	0.8	311.2	-27.6	78.4	0.0	0.0	M	101.3
3/28/2021 0:00	1.9	264.5	-28.3	77.7	0.0	0.0	M	101.3
3/28/2021 1:00	3.5	284.7	-28.7	77.7	0.0	0.0	M	101.3
3/28/2021 2:00	5.3	290.3	-28.8	77.4	0.0	0.0	M	101.4
3/28/2021 3:00	5.4	288.2	-29.2	76.8	0.0	0.0	M	101.4
3/28/2021 4:00	5.0	286.9	-30.2	75.9	0.0	0.0	M	101.4
3/28/2021 5:00	5.4	283.8	-30.3	75.8	0.0	0.0	M	101.4
3/28/2021 6:00	4.4	280.4	-30.7	75.0	9.1	0.0	M	101.4
3/28/2021 7:00	3.2	276.7	-30.9	73.3	58.8	0.0	M	101.4
3/28/2021 8:00	5.0	286.3	-29.4	74.2	135.7	1.0	M	101.5
3/28/2021 9:00	5.5	289.3	-28.5	74.0	227.9	1.0	M	101.5
3/28/2021 10:00	8.3	279.9	-28.4	74.3	307.1	1.0	M	101.5
3/28/2021 11:00	8.4	281.6	-27.9	74.5	369.3	1.0	M	101.4
3/28/2021 12:00	8.8	274.5	-27.3	74.9	428.0	1.0	M	101.4
3/28/2021 13:00	8.9	275.8	-26.7	75.4	444.8	1.0	M	101.5
3/28/2021 14:00	9.4	276.5	-26.5	75.5	432.9	1.0	M	101.5
3/28/2021 15:00	8.6	268.8	-26.3	75.5	385.1	1.0	M	101.5
3/28/2021 16:00	7.3	269.0	-26.4	75.5	303.8	1.0	M	101.6
3/28/2021 17:00	6.8	267.8	-26.5	75.9	211.0	1.0	M	101.6
3/28/2021 18:00	9.1	265.3	-26.7	76.3	113.4	0.0	M	101.5
3/28/2021 19:00	9.8	263.1	-27.1	77.3	26.1	0.0	M	101.5
3/28/2021 20:00	10.5	258.5	-27.3	77.9	1.0	0.0	M	101.6
3/28/2021 21:00	9.5	262.8	-27.2	77.4	0.0	0.0	M	101.5
3/28/2021 22:00	10.0	264.1	-27.2	76.6	0.0	0.0	M	101.5
3/28/2021 23:00	9.9	263.4	-27.4	76.7	0.0	0.0	M	101.5
3/29/2021 0:00	9.9	263.7	-27.7	76.8	0.0	0.0	M	101.5
3/29/2021 1:00	9.5	261.3	-28.4	76.5	0.0	0.0	M	101.5
3/29/2021 2:00	9.3	262.9	-29.0	76.2	0.0	0.0	M	101.5
3/29/2021 3:00	9.6	266.0	-29.3	75.7	0.0	0.0	M	101.6
3/29/2021 4:00	8.4	268.3	-30.1	75.0	0.0	0.0	M	101.5
3/29/2021 5:00	8.4	270.2	-30.6	74.3	0.0	0.0	M	101.6
3/29/2021 6:00	8.5	268.5	-31.4	73.6	10.2	0.0	M	101.6
3/29/2021 7:00	8.8	270.5	-31.4	71.8	62.8	0.0	M	101.6
3/29/2021 8:00	9.5	269.3	-31.1	70.3	153.4	1.0	M	101.5
3/29/2021 9:00	11.1	273.0	-31.0	69.8	269.0	1.0	M	101.5
3/29/2021 10:00	9.9	274.5	-30.4	69.6	359.2	1.0	M	101.6
3/29/2021 11:00	9.2	267.2	-29.7	69.1	413.7	1.0	M	101.6
3/29/2021 12:00	8.6	273.0	-29.3	69.0	454.5	1.0	M	101.6
3/29/2021 13:00	8.6	271.2	-29.0	68.6	464.2	1.0	M	101.6
3/29/2021 14:00	7.0	271.9	-28.4	68.2	444.5	1.0	M	101.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/29/2021 15:00	6.8	275.1	-28.1	69.0	383.4	1.0	M	101.7
3/29/2021 16:00	5.9	278.6	-28.1	68.3	314.9	1.0	M	101.6
3/29/2021 17:00	6.6	273.7	-28.3	70.1	219.2	1.0	M	101.6
3/29/2021 18:00	5.6	275.1	-28.8	70.9	121.1	1.0	M	101.6
3/29/2021 19:00	7.1	274.8	-29.5	73.2	30.9	0.0	M	101.6
3/29/2021 20:00	6.5	282.6	-30.5	74.7	1.1	0.0	M	101.6
3/29/2021 21:00	5.0	287.6	-31.5	74.5	0.0	0.0	M	101.7
3/29/2021 22:00	2.1	296.9	-32.2	73.7	0.0	0.0	M	101.6
3/29/2021 23:00	2.3	298.9	-32.8	73.3	0.0	0.0	M	101.6
3/30/2021 0:00	2.0	295.5	-33.1	72.8	0.0	0.0	M	101.6
3/30/2021 1:00	1.3	286.9	-33.4	71.8	0.0	0.0	M	101.6
3/30/2021 2:00	1.3	272.2	-34.0	71.4	0.0	0.0	M	101.6
3/30/2021 3:00	1.7	283.9	-34.3	71.4	0.0	0.0	M	101.6
3/30/2021 4:00	1.8	285.6	-35.2	70.9	0.0	0.0	M	101.6
3/30/2021 5:00	2.1	279.3	-35.4	70.5	0.1	0.0	M	101.5
3/30/2021 6:00	3.4	284.7	-35.8	70.0	12.6	0.0	M	101.5
3/30/2021 7:00	3.0	287.7	-35.3	68.2	70.2	0.0	M	101.5
3/30/2021 8:00	2.6	283.1	-34.7	66.1	163.6	1.0	M	101.5
3/30/2021 9:00	2.4	284.5	-34.4	65.7	243.3	1.0	M	101.5
3/30/2021 10:00	3.0	286.3	-33.2	64.5	362.4	1.0	M	101.4
3/30/2021 11:00	3.7	283.8	-32.5	64.8	435.0	1.0	M	101.4
3/30/2021 12:00	5.0	278.0	-32.3	62.3	481.1	1.0	M	101.4
3/30/2021 13:00	5.6	282.7	-31.7	58.6	478.7	1.0	M	101.3
3/30/2021 14:00	5.9	282.7	-31.6	58.5	450.9	1.0	M	101.3
3/30/2021 15:00	5.1	286.8	-31.5	60.6	399.5	1.0	M	101.3
3/30/2021 16:00	5.2	278.6	-31.6	61.4	323.0	1.0	M	101.3
3/30/2021 17:00	4.9	281.7	-31.5	60.5	229.4	1.0	M	101.3
3/30/2021 18:00	5.8	279.4	-31.7	62.6	130.0	1.0	M	101.3
3/30/2021 19:00	6.1	283.6	-32.6	65.6	37.3	0.0	M	101.3
3/30/2021 20:00	5.9	285.9	-33.0	65.8	1.7	0.0	M	101.3
3/30/2021 21:00	4.7	281.9	-33.5	66.5	0.0	0.0	M	101.3
3/30/2021 22:00	3.7	274.7	-33.6	67.2	0.0	0.0	M	101.3
3/30/2021 23:00	5.2	276.1	-33.3	67.1	0.0	0.0	M	101.3
3/31/2021 0:00	3.7	275.0	-33.8	68.0	0.0	0.0	M	101.3
3/31/2021 1:00	4.4	283.8	-33.7	68.8	0.0	0.0	M	101.3
3/31/2021 2:00	5.4	285.4	-33.5	68.6	0.0	0.0	M	101.3
3/31/2021 3:00	4.8	278.7	-33.9	69.5	0.0	0.0	M	101.3
3/31/2021 4:00	4.9	275.5	-34.3	70.1	0.0	0.0	M	101.4
3/31/2021 5:00	5.0	281.8	-34.3	69.8	0.2	0.0	M	101.4
3/31/2021 6:00	5.4	284.8	-33.8	68.1	17.2	0.0	M	101.4
3/31/2021 7:00	5.7	281.6	-33.0	64.5	80.3	0.0	M	101.5
3/31/2021 8:00	6.0	283.5	-32.9	64.4	175.8	1.0	M	101.4
3/31/2021 9:00	5.2	288.3	-32.1	64.2	278.7	1.0	M	101.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
3/31/2021 10:00	5.4	281.7	-31.3	63.0	360.9	1.0	M	101.5
3/31/2021 11:00	6.3	280.9	-30.7	64.5	428.4	1.0	M	101.6
3/31/2021 12:00	6.6	279.2	-30.3	64.7	470.0	1.0	M	101.6
3/31/2021 13:00	5.8	287.2	-29.7	64.4	479.3	1.0	M	101.6
3/31/2021 14:00	5.4	277.4	-29.4	65.1	457.8	1.0	M	101.6
3/31/2021 15:00	7.3	269.5	-29.5	67.1	408.7	1.0	M	101.6
3/31/2021 16:00	6.3	275.7	-29.3	66.5	331.9	1.0	M	101.6
3/31/2021 17:00	5.7	273.2	-29.3	66.8	237.1	1.0	M	101.7
3/31/2021 18:00	3.4	279.6	-29.4	67.0	136.7	1.0	M	101.7
3/31/2021 19:00	4.2	278.9	-30.4	69.4	41.3	0.0	M	101.7
3/31/2021 20:00	2.8	258.8	-31.3	71.0	2.1	0.0	M	101.7
3/31/2021 21:00	2.2	274.0	-31.6	71.2	0.0	0.0	M	101.7
3/31/2021 22:00	1.2	201.9	-32.3	70.9	0.0	0.0	M	101.7
3/31/2021 23:00	0.6	201.6	-33.6	71.4	0.0	0.0	M	101.7
4/1/2021 0:00	0.8	112.4	-34.5	70.7	0.0	0.0	M	101.7
4/1/2021 1:00	0.5	93.1	-35.6	69.7	0.0	0.0	M	101.2
4/1/2021 2:00	0.6	68.2	-36.3	68.9	0.0	0.0	M	99.2
4/1/2021 3:00	0.3	70.3	-36.6	68.7	0.0	0.0	M	97.9
4/1/2021 4:00	0.3	91.1	-36.7	68.5	0.0	0.0	M	97.3
4/1/2021 5:00	0.9	98.0	-36.8	68.5	0.4	0.0	M	98.1
4/1/2021 6:00	0.8	96.1	-36.9	68.1	27.0	0.0	M	98.6
4/1/2021 7:00	0.9	104.8	-35.6	68.0	128.1	1.0	M	101.7
4/1/2021 8:00	0.8	120.6	-34.1	69.2	229.5	1.0	M	101.7
4/1/2021 9:00	1.0	102.2	-33.5	65.2	295.9	1.0	M	101.7
4/1/2021 10:00	1.3	101.9	-33.2	65.5	292.3	1.0	M	101.7
4/1/2021 11:00	1.2	96.0	-32.0	65.3	282.8	1.0	M	101.7
4/1/2021 12:00	1.4	119.0	-29.7	62.3	494.7	1.0	M	101.7
4/1/2021 13:00	1.6	110.3	-29.2	62.6	544.1	1.0	M	101.7
4/1/2021 14:00	1.6	135.6	-27.7	63.0	525.3	1.0	M	101.7
4/1/2021 15:00	2.0	134.6	-26.9	67.0	460.2	1.0	M	101.7
4/1/2021 16:00	1.6	127.2	-26.4	67.9	376.6	1.0	M	101.7
4/1/2021 17:00	2.1	133.7	-26.1	72.2	266.4	1.0	M	101.7
4/1/2021 18:00	1.6	116.7	-26.6	73.2	164.7	1.0	M	101.7
4/1/2021 19:00	1.5	102.9	-27.7	72.5	53.0	0.0	M	101.8
4/1/2021 20:00	2.2	87.9	-29.3	72.6	2.8	0.0	M	101.8
4/1/2021 21:00	1.5	109.3	-30.4	74.2	0.0	0.0	M	101.8
4/1/2021 22:00	1.3	116.9	-31.0	74.0	0.0	0.0	M	101.8
4/1/2021 23:00	1.7	108.2	-31.4	74.0	0.0	0.0	M	101.9
4/2/2021 0:00	1.1	96.1	-32.0	73.1	0.0	0.0	M	101.9
4/2/2021 1:00	1.0	65.1	-32.6	72.8	0.0	0.0	M	102.0
4/2/2021 2:00	2.1	49.7	-32.3	73.2	0.0	0.0	M	102.0
4/2/2021 3:00	1.6	65.6	-32.9	72.3	0.0	0.0	M	102.1
4/2/2021 4:00	1.1	86.1	-33.7	71.6	0.0	0.0	M	102.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/2/2021 5:00	1.1	64.1	-33.8	71.6	0.5	0.0	M	102.3
4/2/2021 6:00	1.4	86.9	-33.5	71.5	23.2	0.0	M	102.3
4/2/2021 7:00	1.1	96.7	-32.6	71.3	82.1	0.0	M	102.4
4/2/2021 8:00	1.5	94.5	-31.9	70.9	189.7	1.0	M	102.4
4/2/2021 9:00	1.5	108.3	-32.6	70.9	197.4	1.0	M	102.5
4/2/2021 10:00	1.1	75.7	-30.1	70.5	396.5	1.0	M	102.5
4/2/2021 11:00	1.5	74.0	-28.2	68.4	343.7	1.0	M	102.6
4/2/2021 12:00	2.9	66.4	-27.6	69.0	485.5	1.0	M	102.6
4/2/2021 13:00	3.9	56.0	-26.9	69.7	500.7	1.0	M	102.6
4/2/2021 14:00	4.2	67.7	-26.1	68.9	474.7	1.0	M	102.7
4/2/2021 15:00	4.3	73.3	-25.7	68.1	409.3	1.0	M	102.7
4/2/2021 16:00	4.7	75.7	-25.9	67.7	336.7	1.0	M	102.7
4/2/2021 17:00	3.8	77.7	-26.3	68.0	231.7	1.0	M	102.7
4/2/2021 18:00	4.6	71.3	-26.9	67.3	146.0	1.0	M	102.7
4/2/2021 19:00	3.9	75.7	-27.7	69.4	52.5	0.0	M	102.7
4/2/2021 20:00	3.9	77.7	-28.4	72.2	3.9	0.0	M	102.8
4/2/2021 21:00	2.8	66.8	-29.5	74.3	0.0	0.0	M	102.8
4/2/2021 22:00	3.3	54.3	-30.1	75.6	0.0	0.0	M	102.7
4/2/2021 23:00	3.7	64.5	-30.6	75.2	0.0	0.0	M	102.7
4/3/2021 0:00	3.1	62.9	-31.0	74.5	0.0	0.0	M	102.7
4/3/2021 1:00	1.3	65.7	-31.2	74.2	0.0	0.0	M	102.7
4/3/2021 2:00	1.3	96.2	-31.2	74.1	0.0	0.0	M	102.7
4/3/2021 3:00	0.7	81.2	-31.6	73.6	0.0	0.0	M	102.7
4/3/2021 4:00	0.2	108.0	-31.6	73.5	0.0	0.0	M	102.7
4/3/2021 5:00	1.0	355.7	-31.3	73.9	0.3	0.0	M	102.6
4/3/2021 6:00	0.5	13.6	-31.3	73.6	17.4	0.0	M	102.6
4/3/2021 7:00	0.6	270.7	-30.0	72.3	82.1	0.0	M	102.6
4/3/2021 8:00	0.6	52.5	-28.8	71.7	179.2	1.0	M	102.5
4/3/2021 9:00	0.9	338.4	-28.0	66.0	298.0	1.0	M	102.5
4/3/2021 10:00	1.3	310.0	-28.0	63.1	353.9	1.0	M	102.4
4/3/2021 11:00	5.0	293.6	-28.5	64.7	450.4	1.0	M	102.4
4/3/2021 12:00	3.2	334.4	-27.1	64.1	493.2	1.0	M	102.3
4/3/2021 13:00	3.3	8.6	-26.9	64.9	504.4	1.0	M	102.2
4/3/2021 14:00	3.2	4.3	-26.3	64.9	481.9	1.0	M	102.2
4/3/2021 15:00	4.3	355.2	-26.2	66.1	429.5	1.0	M	102.2
4/3/2021 16:00	5.3	1.7	-26.4	69.6	353.1	1.0	M	102.2
4/3/2021 17:00	4.9	355.1	-26.1	70.9	256.1	1.0	M	102.1
4/3/2021 18:00	4.0	353.5	-25.7	71.5	156.1	1.0	M	102.1
4/3/2021 19:00	2.0	336.4	-25.5	71.5	58.9	0.0	M	102.0
4/3/2021 20:00	2.6	333.8	-25.9	74.2	3.5	0.0	M	101.9
4/3/2021 21:00	3.0	277.3	-28.0	75.7	0.0	0.0	M	101.9
4/3/2021 22:00	4.1	276.5	-28.9	76.8	0.0	0.0	M	101.8
4/3/2021 23:00	4.1	283.6	-29.2	76.3	0.0	0.0	M	101.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/4/2021 0:00	3.5	277.7	-29.9	75.9	0.0	0.0	M	101.7
4/4/2021 1:00	3.9	285.7	-29.5	75.8	0.0	0.0	M	101.6
4/4/2021 2:00	1.8	284.3	-30.8	74.6	0.0	0.0	M	101.6
4/4/2021 3:00	1.5	332.7	-31.0	74.5	0.0	0.0	M	101.6
4/4/2021 4:00	1.2	260.3	-31.0	74.2	0.0	0.0	M	101.5
4/4/2021 5:00	3.2	267.5	-31.2	74.5	0.7	0.0	M	101.5
4/4/2021 6:00	3.2	278.9	-30.8	74.4	23.1	0.0	M	101.4
4/4/2021 7:00	4.5	281.2	-30.0	73.0	97.8	0.0	M	101.3
4/4/2021 8:00	2.8	277.6	-29.5	72.4	194.8	1.0	M	101.3
4/4/2021 9:00	2.3	266.8	-29.0	71.5	314.2	1.0	M	101.3
4/4/2021 10:00	1.0	195.8	-27.2	72.4	337.3	1.0	M	101.2
4/4/2021 11:00	1.0	104.9	-26.9	75.0	343.8	1.0	M	101.2
4/4/2021 12:00	1.2	106.1	-26.1	74.5	459.3	1.0	M	101.2
4/4/2021 13:00	1.0	109.6	-24.1	73.3	507.2	1.0	M	101.1
4/4/2021 14:00	1.0	76.1	-23.2	72.4	427.8	1.0	M	101.0
4/4/2021 15:00	1.0	81.2	-23.1	72.2	355.3	1.0	M	101.0
4/4/2021 16:00	1.2	111.5	-22.2	71.0	382.4	1.0	M	101.0
4/4/2021 17:00	1.2	87.3	-22.0	70.5	290.9	1.0	M	100.9
4/4/2021 18:00	1.2	89.6	-22.1	71.3	155.9	1.0	M	100.9
4/4/2021 19:00	1.8	57.4	-23.5	73.8	57.2	0.0	M	100.9
4/4/2021 20:00	1.1	92.8	-24.2	76.5	4.4	0.0	M	100.9
4/4/2021 21:00	0.9	87.0	-25.0	77.8	0.0	0.0	M	100.9
4/4/2021 22:00	0.6	85.5	-26.2	78.5	0.0	0.0	M	100.8
4/4/2021 23:00	0.3	89.0	-26.8	78.5	0.0	0.0	M	100.8
4/5/2021 0:00	0.5	104.6	-27.9	77.6	0.0	0.0	M	100.8
4/5/2021 1:00	0.4	96.7	-28.6	77.2	0.0	0.0	M	100.7
4/5/2021 2:00	0.5	78.0	-29.0	76.5	0.0	0.0	M	100.7
4/5/2021 3:00	0.5	87.0	-29.3	76.5	0.0	0.0	M	100.7
4/5/2021 4:00	0.5	75.8	-29.5	76.0	0.0	0.0	M	100.7
4/5/2021 5:00	0.5	86.2	-29.8	75.7	1.4	0.0	M	100.7
4/5/2021 6:00	0.6	83.3	-29.4	75.3	38.1	0.0	M	100.7
4/5/2021 7:00	0.8	71.5	-28.0	75.3	105.7	0.0	M	100.6
4/5/2021 8:00	0.7	79.1	-25.7	72.7	198.6	1.0	M	100.6
4/5/2021 9:00	1.6	110.0	-26.9	74.6	231.0	1.0	M	100.6
4/5/2021 10:00	2.2	125.8	-25.0	78.9	327.6	1.0	M	100.6
4/5/2021 11:00	2.5	127.0	-22.8	80.1	454.6	1.0	M	100.6
4/5/2021 12:00	2.9	119.7	-21.1	82.1	452.7	1.0	M	100.5
4/5/2021 13:00	3.8	116.5	-18.6	83.4	504.9	1.0	M	100.5
4/5/2021 14:00	4.6	115.6	-17.4	85.0	408.0	1.0	M	100.5
4/5/2021 15:00	5.8	111.5	-17.2	85.4	412.0	1.0	M	100.5
4/5/2021 16:00	7.2	106.8	-18.0	85.6	281.7	1.0	M	100.5
4/5/2021 17:00	6.3	100.0	-18.3	84.8	248.2	1.0	M	100.5
4/5/2021 18:00	6.3	92.1	-19.3	84.2	133.0	1.0	M	100.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/5/2021 19:00	4.2	110.1	-18.9	85.5	36.0	0.0	M	100.4
4/5/2021 20:00	3.7	116.1	-19.6	85.7	4.0	0.0	M	100.5
4/5/2021 21:00	2.3	124.6	-19.8	85.4	0.0	0.0	M	100.5
4/5/2021 22:00	2.0	112.9	-20.2	85.1	0.0	0.0	M	100.5
4/5/2021 23:00	1.1	81.3	-20.1	84.8	0.0	0.0	M	100.5
4/6/2021 0:00	0.4	94.0	-19.8	85.0	0.0	0.0	M	100.6
4/6/2021 1:00	4.9	260.7	-17.5	87.5	0.0	0.0	M	100.5
4/6/2021 2:00	11.2	256.8	-15.5	88.5	0.0	0.0	M	100.5
4/6/2021 3:00	12.8	260.7	-16.4	88.1	0.0	0.0	M	100.7
4/6/2021 4:00	13.8	262.4	-17.2	87.0	0.0	0.0	M	100.8
4/6/2021 5:00	13.3	261.9	-17.9	86.1	1.3	0.0	M	100.8
4/6/2021 6:00	12.4	271.3	-19.1	85.1	23.1	0.0	M	101.0
4/6/2021 7:00	10.4	266.7	-19.7	84.3	73.3	0.0	M	101.1
4/6/2021 8:00	11.5	266.4	-20.3	83.5	134.4	1.0	M	101.2
4/6/2021 9:00	12.4	266.4	-20.8	82.7	214.5	1.0	M	101.3
4/6/2021 10:00	9.3	260.2	-21.2	81.5	300.0	1.0	M	101.4
4/6/2021 11:00	10.6	262.1	-21.3	80.4	465.3	1.0	M	101.4
4/6/2021 12:00	11.0	260.1	-21.1	79.9	503.8	1.0	M	101.5
4/6/2021 13:00	11.9	259.3	-20.7	79.8	515.0	1.0	M	101.6
4/6/2021 14:00	10.6	255.6	-20.6	78.8	491.0	1.0	M	101.6
4/6/2021 15:00	10.1	262.2	-20.8	77.8	439.9	1.0	M	101.7
4/6/2021 16:00	10.0	263.8	-20.7	77.0	361.1	1.0	M	101.8
4/6/2021 17:00	10.7	263.8	-20.9	76.9	266.7	1.0	M	101.8
4/6/2021 18:00	11.0	263.6	-21.3	76.9	165.3	1.0	M	101.9
4/6/2021 19:00	9.6	266.3	-21.6	78.5	71.3	0.0	M	102.0
4/6/2021 20:00	6.2	271.2	-22.1	78.9	6.4	0.0	M	102.1
4/6/2021 21:00	8.5	269.6	-22.2	79.2	0.1	0.0	M	102.1
4/6/2021 22:00	7.4	264.2	-22.5	79.1	0.0	0.0	M	102.2
4/6/2021 23:00	6.0	257.7	-23.0	78.9	0.0	0.0	M	102.2
4/7/2021 0:00	7.5	270.3	-23.8	79.4	0.0	0.0	M	102.2
4/7/2021 1:00	7.4	284.4	-24.1	79.7	0.0	0.0	M	102.2
4/7/2021 2:00	2.5	295.5	-24.4	80.4	0.0	0.0	M	102.3
4/7/2021 3:00	4.8	291.8	-24.4	80.3	0.0	0.0	M	102.3
4/7/2021 4:00	4.5	279.7	-25.0	80.7	0.0	0.0	M	102.4
4/7/2021 5:00	2.1	277.7	-26.4	80.0	2.6	0.0	M	102.4
4/7/2021 6:00	1.3	253.6	-25.8	79.2	43.2	0.0	M	102.4
4/7/2021 7:00	2.1	246.3	-24.9	76.5	119.2	0.0	M	102.4
4/7/2021 8:00	1.0	181.3	-24.2	75.8	203.4	1.0	M	102.4
4/7/2021 9:00	1.1	116.8	-24.8	74.3	279.1	1.0	M	102.4
4/7/2021 10:00	1.0	164.6	-23.7	73.3	312.8	1.0	M	102.5
4/7/2021 11:00	1.3	258.4	-21.4	67.3	465.2	1.0	M	102.4
4/7/2021 12:00	2.6	274.1	-21.8	70.5	502.3	1.0	M	102.4
4/7/2021 13:00	3.2	274.2	-21.6	72.9	477.3	1.0	M	102.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/7/2021 14:00	2.7	283.3	-21.0	72.5	430.4	1.0	M	102.4
4/7/2021 15:00	2.6	292.3	-20.6	73.1	363.3	1.0	M	102.4
4/7/2021 16:00	2.5	9.1	-20.6	74.2	311.8	1.0	M	102.4
4/7/2021 17:00	1.8	39.5	-20.9	75.1	222.0	1.0	M	102.3
4/7/2021 18:00	2.3	100.0	-20.5	78.1	127.5	1.0	M	102.3
4/7/2021 19:00	2.7	102.4	-21.1	81.1	51.4	0.0	M	102.3
4/7/2021 20:00	3.0	98.5	-22.2	79.7	6.7	0.0	M	102.2
4/7/2021 21:00	2.0	123.9	-22.9	81.2	0.0	0.0	M	102.2
4/7/2021 22:00	3.3	107.1	-22.4	83.1	0.0	0.0	M	102.2
4/7/2021 23:00	3.2	105.9	-21.9	83.9	0.0	0.0	M	102.1
4/8/2021 0:00	3.8	105.2	-21.5	84.0	0.0	0.0	M	102.0
4/8/2021 1:00	5.3	92.9	-21.9	83.5	0.0	0.0	M	102.0
4/8/2021 2:00	6.5	89.5	-22.0	83.5	0.0	0.0	M	101.9
4/8/2021 3:00	6.1	92.0	-21.7	83.8	0.0	0.0	M	101.8
4/8/2021 4:00	7.2	97.1	-21.1	84.4	0.0	0.0	M	101.7
4/8/2021 5:00	8.3	97.7	-20.7	84.7	1.1	0.0	M	101.6
4/8/2021 6:00	9.6	89.1	-21.2	84.3	17.1	0.0	M	101.5
4/8/2021 7:00	9.6	85.3	-21.2	84.2	63.1	0.0	M	101.4
4/8/2021 8:00	10.0	87.4	-20.4	84.7	114.5	0.0	M	101.3
4/8/2021 9:00	9.4	89.5	-20.0	84.9	189.3	1.0	M	101.2
4/8/2021 10:00	10.2	86.5	-19.6	85.1	236.1	1.0	M	101.0
4/8/2021 11:00	12.1	84.7	-19.5	85.1	268.9	1.0	M	100.9
4/8/2021 12:00	11.6	83.7	-19.4	85.1	310.0	1.0	M	100.8
4/8/2021 13:00	10.9	89.4	-18.8	85.8	313.9	1.0	M	100.7
4/8/2021 14:00	9.8	100.8	-17.2	87.2	311.5	1.0	M	100.7
4/8/2021 15:00	7.9	102.0	-16.6	87.8	272.9	1.0	M	100.6
4/8/2021 16:00	6.6	103.6	-16.1	88.3	202.5	1.0	M	100.5
4/8/2021 17:00	4.1	101.7	-16.4	88.3	146.5	1.0	M	100.5
4/8/2021 18:00	1.0	103.2	-16.1	88.6	89.1	0.0	M	100.4
4/8/2021 19:00	1.0	342.3	-16.4	88.1	34.8	0.0	M	100.4
4/8/2021 20:00	2.1	289.8	-16.7	88.1	5.7	0.0	M	100.3
4/8/2021 21:00	4.3	289.6	-16.9	88.1	0.1	0.0	M	100.3
4/8/2021 22:00	5.0	294.1	-17.3	87.7	0.0	0.0	M	100.2
4/8/2021 23:00	5.4	296.2	-17.7	87.4	0.0	0.0	M	100.2
4/9/2021 0:00	6.5	296.3	-17.9	87.3	0.0	0.0	M	100.1
4/9/2021 1:00	7.9	293.2	-18.0	87.2	0.0	0.0	M	100.1
4/9/2021 2:00	8.1	292.8	-18.3	86.8	0.0	0.0	M	100.1
4/9/2021 3:00	9.0	295.1	-18.7	86.5	0.0	0.0	M	100.2
4/9/2021 4:00	9.4	296.5	-19.0	86.2	0.0	0.0	M	100.2
4/9/2021 5:00	9.7	290.9	-19.7	85.4	2.1	0.0	M	100.3
4/9/2021 6:00	9.8	286.3	-20.7	84.4	20.4	0.0	M	100.4
4/9/2021 7:00	9.3	281.9	-21.8	82.8	66.2	0.0	M	100.4
4/9/2021 8:00	11.2	268.8	-23.0	81.1	218.8	1.0	M	100.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/9/2021 9:00	11.0	275.8	-23.2	80.2	321.1	1.0	M	100.6
4/9/2021 10:00	10.6	276.0	-22.7	79.6	407.6	1.0	M	100.7
4/9/2021 11:00	10.7	281.5	-22.9	78.7	472.6	1.0	M	100.8
4/9/2021 12:00	13.1	283.0	-22.9	78.5	513.5	1.0	M	100.9
4/9/2021 13:00	11.2	287.6	-22.2	78.6	520.3	1.0	M	101.0
4/9/2021 14:00	11.1	288.3	-21.8	78.5	491.9	1.0	M	101.1
4/9/2021 15:00	12.0	287.4	-21.8	78.6	391.3	1.0	M	101.2
4/9/2021 16:00	10.5	284.0	-21.7	79.4	285.3	1.0	M	101.3
4/9/2021 17:00	9.5	290.3	-21.5	79.5	241.5	1.0	M	101.4
4/9/2021 18:00	9.4	285.2	-21.7	79.7	134.8	1.0	M	101.5
4/9/2021 19:00	9.2	280.4	-22.1	80.5	82.4	0.0	M	101.5
4/9/2021 20:00	8.1	282.7	-22.5	80.7	23.2	0.0	M	101.6
4/9/2021 21:00	10.3	278.8	-23.5	80.7	0.4	0.0	M	101.7
4/9/2021 22:00	8.7	281.7	-24.6	80.3	0.0	0.0	M	101.7
4/9/2021 23:00	10.0	284.2	-25.3	80.0	0.0	0.0	M	101.8
4/10/2021 0:00	7.4	290.5	-25.7	79.5	0.0	0.0	M	101.8
4/10/2021 1:00	8.3	295.3	-25.6	78.7	0.0	0.0	M	101.8
4/10/2021 2:00	6.7	305.0	-25.7	78.1	0.0	0.0	M	101.9
4/10/2021 3:00	6.5	297.5	-25.9	77.6	0.0	0.0	M	102.0
4/10/2021 4:00	6.8	320.8	-25.1	76.8	0.0	0.0	M	102.1
4/10/2021 5:00	5.9	327.7	-24.7	76.9	2.3	0.0	M	102.1
4/10/2021 6:00	5.1	306.5	-24.4	77.0	21.6	0.0	M	102.1
4/10/2021 7:00	6.1	296.4	-25.0	75.5	80.3	0.0	M	102.1
4/10/2021 8:00	7.3	305.7	-25.6	73.5	187.9	1.0	M	102.2
4/10/2021 9:00	8.4	312.9	-25.5	72.2	343.9	1.0	M	102.2
4/10/2021 10:00	7.9	301.4	-25.2	71.4	426.6	1.0	M	102.2
4/10/2021 11:00	6.9	312.7	-24.7	71.4	468.4	1.0	M	102.3
4/10/2021 12:00	6.5	313.6	-23.9	71.4	517.4	1.0	M	102.3
4/10/2021 13:00	8.2	317.0	-23.6	71.9	529.8	1.0	M	102.3
4/10/2021 14:00	8.3	317.8	-23.1	71.9	521.8	1.0	M	102.4
4/10/2021 15:00	7.9	315.0	-22.6	72.4	455.1	1.0	M	102.4
4/10/2021 16:00	8.4	312.0	-22.7	73.7	363.9	1.0	M	102.4
4/10/2021 17:00	8.2	307.4	-23.0	74.8	243.8	1.0	M	102.4
4/10/2021 18:00	8.4	299.3	-23.3	75.4	158.6	1.0	M	102.5
4/10/2021 19:00	7.3	291.1	-24.1	76.6	83.4	0.0	M	102.6
4/10/2021 20:00	6.8	279.2	-24.9	77.4	16.9	0.0	M	102.6
4/10/2021 21:00	5.1	287.3	-25.5	77.1	0.5	0.0	M	102.6
4/10/2021 22:00	6.4	309.6	-26.0	77.2	0.0	0.0	M	102.6
4/10/2021 23:00	5.8	306.4	-26.2	76.2	0.0	0.0	M	102.7
4/11/2021 0:00	5.7	267.8	-27.6	76.6	0.0	0.0	M	102.7
4/11/2021 1:00	7.4	287.2	-28.0	76.9	0.0	0.0	M	102.7
4/11/2021 2:00	4.6	289.1	-28.6	76.8	0.0	0.0	M	102.8
4/11/2021 3:00	4.6	289.0	-29.5	76.6	0.0	0.0	M	102.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/11/2021 4:00	7.2	289.0	-29.8	76.4	0.0	0.0	M	102.9
4/11/2021 5:00	8.9	282.7	-30.0	76.0	5.1	0.0	M	103.0
4/11/2021 6:00	6.5	282.6	-29.8	75.6	43.9	0.0	M	103.0
4/11/2021 7:00	4.1	286.7	-29.1	73.5	115.1	0.0	M	103.0
4/11/2021 8:00	6.4	286.0	-29.1	72.5	221.9	1.0	M	103.0
4/11/2021 9:00	6.5	288.8	-27.9	72.6	360.8	1.0	M	103.1
4/11/2021 10:00	5.3	281.9	-26.7	71.2	430.1	1.0	M	103.1
4/11/2021 11:00	5.9	284.7	-26.1	71.3	488.4	1.0	M	103.1
4/11/2021 12:00	6.1	284.5	-25.3	71.5	518.5	1.0	M	103.1
4/11/2021 13:00	5.6	280.4	-24.5	70.9	548.4	1.0	M	103.1
4/11/2021 14:00	4.4	283.9	-23.9	70.6	516.4	1.0	M	103.2
4/11/2021 15:00	3.2	282.1	-23.1	69.2	453.6	1.0	M	103.2
4/11/2021 16:00	2.2	280.4	-22.6	67.5	371.7	1.0	M	103.2
4/11/2021 17:00	1.1	272.2	-21.5	65.9	290.3	1.0	M	103.2
4/11/2021 18:00	0.5	126.0	-21.7	63.5	176.9	1.0	M	103.2
4/11/2021 19:00	1.0	104.7	-23.4	70.3	77.2	0.0	M	103.2
4/11/2021 20:00	1.1	128.6	-24.7	77.3	12.8	0.0	M	103.2
4/11/2021 21:00	0.9	109.7	-25.6	77.8	0.5	0.0	M	103.1
4/11/2021 22:00	1.5	131.3	-26.2	78.9	0.0	0.0	M	103.2
4/11/2021 23:00	1.6	122.1	-26.5	79.1	0.0	0.0	M	103.1
4/12/2021 0:00	1.0	85.0	-27.3	78.2	0.0	0.0	M	103.1
4/12/2021 1:00	1.5	101.2	-27.6	78.2	0.0	0.0	M	103.1
4/12/2021 2:00	1.3	78.7	-28.3	77.2	0.0	0.0	M	103.1
4/12/2021 3:00	1.5	112.9	-28.5	77.1	0.0	0.0	M	103.1
4/12/2021 4:00	1.4	124.9	-28.9	76.9	0.0	0.0	M	103.1
4/12/2021 5:00	2.4	147.6	-28.9	76.9	4.9	0.0	M	103.1
4/12/2021 6:00	2.7	130.9	-28.2	76.7	68.3	0.0	M	103.0
4/12/2021 7:00	2.3	142.7	-27.5	76.8	100.2	0.0	M	103.0
4/12/2021 8:00	1.5	134.0	-26.4	76.3	178.9	1.0	M	103.1
4/12/2021 9:00	2.1	122.0	-25.0	74.8	266.4	1.0	M	103.1
4/12/2021 10:00	3.1	131.8	-23.3	74.7	377.5	1.0	M	103.0
4/12/2021 11:00	4.2	135.5	-21.2	73.9	520.9	1.0	M	103.0
4/12/2021 12:00	5.1	175.5	-18.8	69.7	551.8	1.0	M	102.8
4/12/2021 13:00	6.5	193.9	-18.0	65.3	556.1	1.0	M	102.9
4/12/2021 14:00	4.0	182.7	-16.8	63.5	529.8	1.0	M	102.9
4/12/2021 15:00	4.1	176.0	-16.8	64.5	482.0	1.0	M	102.9
4/12/2021 16:00	4.8	185.4	-16.6	64.8	405.5	1.0	M	102.9
4/12/2021 17:00	5.5	174.8	-17.3	68.9	309.2	1.0	M	102.8
4/12/2021 18:00	5.3	181.7	-17.3	68.4	203.4	1.0	M	102.8
4/12/2021 19:00	2.2	116.2	-18.5	74.2	103.4	0.0	M	102.8
4/12/2021 20:00	2.0	135.9	-19.8	76.0	22.8	0.0	M	102.8
4/12/2021 21:00	1.5	122.1	-20.6	78.9	1.1	0.0	M	102.8
4/12/2021 22:00	1.1	117.5	-21.7	78.5	0.0	0.0	M	102.8

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/12/2021 23:00	1.4	120.1	-22.7	78.4	0.0	0.0	M	102.7
4/13/2021 0:00	1.0	96.1	-23.7	79.8	0.0	0.0	M	102.7
4/13/2021 1:00	1.0	55.4	-24.5	78.7	0.0	0.0	M	102.7
4/13/2021 2:00	1.3	94.8	-24.6	78.7	0.0	0.0	M	102.6
4/13/2021 3:00	0.9	73.5	-25.3	78.1	0.0	0.0	M	102.6
4/13/2021 4:00	1.1	74.2	-25.8	78.6	0.2	0.0	M	102.6
4/13/2021 5:00	1.4	79.1	-26.4	77.9	13.3	0.0	M	102.6
4/13/2021 6:00	1.3	72.2	-25.8	74.3	79.7	0.0	M	102.6
4/13/2021 7:00	1.1	59.1	-24.7	69.0	147.6	1.0	M	102.5
4/13/2021 8:00	2.0	60.9	-24.7	68.3	243.4	1.0	M	102.5
4/13/2021 9:00	3.5	63.4	-24.3	70.0	383.5	1.0	M	102.5
4/13/2021 10:00	4.0	78.7	-23.2	70.8	462.6	1.0	M	102.5
4/13/2021 11:00	3.9	72.1	-22.1	70.7	521.7	1.0	M	102.5
4/13/2021 12:00	3.7	72.8	-21.1	70.9	558.9	1.0	M	102.5
4/13/2021 13:00	4.0	76.9	-20.2	72.0	558.5	1.0	M	102.5
4/13/2021 14:00	4.6	91.5	-19.7	75.2	503.3	1.0	M	102.5
4/13/2021 15:00	5.0	87.0	-19.8	76.0	455.0	1.0	M	102.5
4/13/2021 16:00	5.4	79.5	-19.4	74.9	410.2	1.0	M	102.5
4/13/2021 17:00	4.9	78.5	-19.1	75.9	314.8	1.0	M	102.5
4/13/2021 18:00	4.2	78.2	-19.1	75.9	204.9	1.0	M	102.5
4/13/2021 19:00	2.6	96.0	-19.3	79.0	111.4	0.0	M	102.5
4/13/2021 20:00	2.8	89.6	-20.0	81.6	27.9	0.0	M	102.5
4/13/2021 21:00	1.3	107.4	-20.2	84.1	1.6	0.0	M	102.5
4/13/2021 22:00	0.9	56.3	-20.8	83.6	0.0	0.0	M	102.5
4/13/2021 23:00	1.4	55.1	-21.5	83.9	0.0	0.0	M	102.5
4/14/2021 0:00	1.6	66.1	-22.5	83.7	0.0	0.0	M	102.5
4/14/2021 1:00	1.2	74.3	-22.7	83.4	0.0	0.0	M	102.5
4/14/2021 2:00	2.4	78.9	-23.0	83.7	0.0	0.0	M	102.5
4/14/2021 3:00	1.9	88.4	-23.1	82.9	0.0	0.0	M	102.5
4/14/2021 4:00	1.8	109.3	-23.7	82.1	0.3	0.0	M	102.5
4/14/2021 5:00	1.6	111.5	-24.4	81.3	10.9	0.0	M	102.5
4/14/2021 6:00	0.7	80.2	-23.3	82.0	70.8	0.0	M	102.5
4/14/2021 7:00	0.8	86.8	-22.9	82.0	125.3	1.0	M	102.5
4/14/2021 8:00	0.3	81.6	-20.0	83.9	215.7	1.0	M	102.5
4/14/2021 9:00	0.8	98.1	-19.9	79.3	373.1	1.0	M	102.5
4/14/2021 10:00	0.6	83.4	-18.9	76.8	467.4	1.0	M	102.5
4/14/2021 11:00	0.5	78.7	-17.2	71.6	520.2	1.0	M	102.6
4/14/2021 12:00	0.7	78.7	-16.8	69.4	540.7	1.0	M	102.6
4/14/2021 13:00	0.9	93.7	-16.7	68.5	544.3	1.0	M	102.6
4/14/2021 14:00	0.9	94.6	-16.4	68.6	530.7	1.0	M	102.6
4/14/2021 15:00	0.4	96.4	-13.9	61.6	484.3	1.0	M	102.6
4/14/2021 16:00	0.6	84.9	-15.4	69.4	409.2	1.0	M	102.7
4/14/2021 17:00	0.9	46.1	-15.4	68.9	314.3	1.0	M	102.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/14/2021 18:00	1.4	31.8	-16.5	74.4	213.6	1.0	M	102.7
4/14/2021 19:00	1.3	33.5	-17.3	79.2	68.6	0.0	M	102.7
4/14/2021 20:00	1.0	49.2	-17.6	81.1	15.7	0.0	M	102.7
4/14/2021 21:00	1.9	53.9	-17.8	82.8	1.3	0.0	M	102.7
4/14/2021 22:00	2.2	69.2	-17.9	84.0	0.0	0.0	M	102.7
4/14/2021 23:00	3.0	94.5	-17.5	86.8	0.0	0.0	M	102.7
4/15/2021 0:00	2.3	122.7	-16.6	88.8	0.0	0.0	M	102.7
4/15/2021 1:00	2.2	130.0	-16.4	88.5	0.0	0.0	M	102.7
4/15/2021 2:00	2.3	132.3	-16.6	87.9	0.0	0.0	M	102.7
4/15/2021 3:00	2.0	128.4	-16.5	88.1	0.0	0.0	M	102.7
4/15/2021 4:00	1.5	117.1	-17.7	86.9	0.2	0.0	M	102.7
4/15/2021 5:00	1.4	127.9	-18.0	86.9	5.2	0.0	M	102.7
4/15/2021 6:00	1.5	116.2	-17.5	87.6	45.4	0.0	M	102.7
4/15/2021 7:00	1.9	118.9	-17.3	87.9	105.0	0.0	M	102.6
4/15/2021 8:00	1.2	121.5	-16.1	88.8	145.7	1.0	M	102.6
4/15/2021 9:00	1.7	119.9	-15.3	89.4	208.3	1.0	M	102.6
4/15/2021 10:00	4.7	125.7	-15.3	89.4	285.8	1.0	M	102.6
4/15/2021 11:00	4.6	123.7	-13.7	90.0	396.2	1.0	M	102.6
4/15/2021 12:00	5.5	117.9	-13.2	88.2	553.4	1.0	M	102.4
4/15/2021 13:00	5.8	96.4	-13.7	86.5	399.3	1.0	M	102.4
4/15/2021 14:00	5.7	106.3	-12.7	86.2	472.3	1.0	M	102.4
4/15/2021 15:00	5.4	116.9	-11.9	86.9	373.7	1.0	M	102.4
4/15/2021 16:00	6.0	104.3	-12.8	87.2	282.1	1.0	M	102.3
4/15/2021 17:00	6.6	101.4	-12.9	87.4	262.6	1.0	M	102.3
4/15/2021 18:00	6.4	97.6	-13.3	88.2	128.4	1.0	M	102.3
4/15/2021 19:00	5.7	94.4	-13.5	88.8	68.4	0.0	M	102.2
4/15/2021 20:00	5.7	85.8	-14.1	89.1	19.1	0.0	M	102.2
4/15/2021 21:00	6.4	81.1	-14.4	89.2	1.1	0.0	M	102.1
4/15/2021 22:00	5.7	83.2	-15.0	89.3	0.0	0.0	M	102.2
4/15/2021 23:00	4.7	81.7	-15.1	89.0	0.0	0.0	M	102.1
4/16/2021 0:00	5.8	73.9	-15.3	89.1	0.0	0.0	M	102.1
4/16/2021 1:00	4.4	73.8	-15.2	89.1	0.0	0.0	M	102.1
4/16/2021 2:00	4.5	68.3	-15.2	89.0	0.0	0.0	M	102.1
4/16/2021 3:00	3.9	73.9	-15.6	88.8	0.0	0.0	M	102.2
4/16/2021 4:00	4.8	68.6	-16.1	88.5	0.3	0.0	M	102.1
4/16/2021 5:00	5.1	62.6	-16.3	88.2	10.8	0.0	M	102.2
4/16/2021 6:00	3.4	54.1	-16.1	86.8	68.8	0.0	M	102.2
4/16/2021 7:00	4.1	45.0	-16.5	85.0	128.8	1.0	M	102.2
4/16/2021 8:00	4.1	36.4	-16.9	85.1	187.3	1.0	M	102.3
4/16/2021 9:00	2.6	37.0	-16.0	84.3	262.7	1.0	M	102.4
4/16/2021 10:00	3.1	352.6	-15.5	83.9	339.8	1.0	M	102.4
4/16/2021 11:00	4.1	7.5	-15.1	84.0	470.9	1.0	M	102.5
4/16/2021 12:00	4.0	349.7	-14.6	83.4	561.7	1.0	M	102.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/16/2021 13:00	4.1	318.5	-14.3	83.9	560.0	1.0	M	102.5
4/16/2021 14:00	4.5	315.2	-14.3	81.1	546.9	1.0	M	102.6
4/16/2021 15:00	4.6	303.1	-14.4	79.8	430.6	1.0	M	102.6
4/16/2021 16:00	3.8	293.4	-14.7	79.9	340.3	1.0	M	102.6
4/16/2021 17:00	5.0	277.8	-15.5	83.3	195.0	1.0	M	102.6
4/16/2021 18:00	5.3	291.8	-15.2	81.9	223.8	1.0	M	102.6
4/16/2021 19:00	2.9	297.8	-16.1	81.0	93.0	0.0	M	102.6
4/16/2021 20:00	3.3	297.7	-17.2	82.9	29.9	0.0	M	102.6
4/16/2021 21:00	2.8	282.5	-18.4	84.9	2.9	0.0	M	102.6
4/16/2021 22:00	2.0	274.1	-19.3	87.1	0.0	0.0	M	102.6
4/16/2021 23:00	3.2	289.0	-19.5	86.7	0.0	0.0	M	102.6
4/17/2021 0:00	4.5	285.7	-19.9	85.7	0.0	0.0	M	102.6
4/17/2021 1:00	6.0	278.0	-20.1	85.6	0.0	0.0	M	102.5
4/17/2021 2:00	2.7	267.3	-21.0	84.7	0.0	0.0	M	102.6
4/17/2021 3:00	1.7	263.8	-20.6	85.0	0.0	0.0	M	102.5
4/17/2021 4:00	4.1	268.6	-18.9	87.0	0.6	0.0	M	102.4
4/17/2021 5:00	7.0	271.8	-17.3	87.8	13.1	0.0	M	102.4
4/17/2021 6:00	6.7	269.9	-16.6	88.3	47.6	0.0	M	102.4
4/17/2021 7:00	6.7	276.4	-15.8	88.7	91.6	0.0	M	102.4
4/17/2021 8:00	5.5	281.1	-14.7	89.3	160.1	1.0	M	102.4
4/17/2021 9:00	6.0	279.4	-13.7	89.4	251.9	1.0	M	102.3
4/17/2021 10:00	8.2	276.3	-13.1	89.2	322.5	1.0	M	102.4
4/17/2021 11:00	8.1	280.6	-12.4	88.4	383.9	1.0	M	102.4
4/17/2021 12:00	8.2	285.3	-12.2	86.5	442.8	1.0	M	102.4
4/17/2021 13:00	6.8	282.5	-11.9	84.7	451.9	1.0	M	102.5
4/17/2021 14:00	7.6	287.6	-11.4	84.5	446.7	1.0	M	102.5
4/17/2021 15:00	6.6	299.5	-11.1	82.1	422.6	1.0	M	102.5
4/17/2021 16:00	7.6	307.7	-11.3	81.7	298.0	1.0	M	102.6
4/17/2021 17:00	5.9	310.9	-12.1	77.7	275.5	1.0	M	102.6
4/17/2021 18:00	6.7	304.1	-12.5	80.5	229.7	1.0	M	102.7
4/17/2021 19:00	7.1	298.5	-13.2	83.4	128.5	1.0	M	102.7
4/17/2021 20:00	5.8	296.4	-14.4	85.1	34.3	0.0	M	102.8
4/17/2021 21:00	4.6	296.6	-15.3	86.3	2.0	0.0	M	102.8
4/17/2021 22:00	4.9	288.0	-16.4	86.7	0.0	0.0	M	102.8
4/17/2021 23:00	5.9	283.1	-17.8	87.5	0.0	0.0	M	102.8
4/18/2021 0:00	5.9	281.2	-18.2	87.5	0.0	0.0	M	102.8
4/18/2021 1:00	7.1	278.5	-16.8	88.5	0.0	0.0	M	102.8
4/18/2021 2:00	6.6	280.0	-16.7	88.3	0.0	0.0	M	102.8
4/18/2021 3:00	8.1	276.0	-16.5	88.2	0.0	0.0	M	102.7
4/18/2021 4:00	8.6	275.2	-15.6	88.1	1.1	0.0	M	102.7
4/18/2021 5:00	10.8	270.3	-14.2	86.1	18.8	0.0	M	102.6
4/18/2021 6:00	12.2	267.6	-13.4	85.7	69.2	0.0	M	102.5
4/18/2021 7:00	12.0	272.2	-12.8	85.0	120.4	1.0	M	102.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/18/2021 8:00	12.0	272.3	-12.4	84.2	184.7	1.0	M	102.5
4/18/2021 9:00	10.5	279.7	-12.0	84.0	267.2	1.0	M	102.4
4/18/2021 10:00	11.5	277.5	-11.1	84.1	355.4	1.0	M	102.4
4/18/2021 11:00	11.1	281.5	-10.4	87.4	377.9	1.0	M	102.4
4/18/2021 12:00	9.8	285.0	-10.0	87.8	443.6	1.0	M	102.5
4/18/2021 13:00	7.7	297.9	-9.1	86.0	413.9	1.0	M	102.5
4/18/2021 14:00	7.1	317.5	-8.2	84.3	363.6	1.0	M	102.5
4/18/2021 15:00	7.5	319.1	-7.9	83.9	327.1	1.0	M	102.6
4/18/2021 16:00	7.8	322.5	-7.7	85.0	262.8	1.0	M	102.7
4/18/2021 17:00	7.9	321.2	-7.7	86.7	209.0	1.0	M	102.7
4/18/2021 18:00	6.7	324.4	-8.0	86.6	155.0	1.0	M	102.7
4/18/2021 19:00	6.4	325.8	-8.7	85.4	75.4	0.0	M	102.8
4/18/2021 20:00	6.1	323.4	-9.0	86.2	16.3	0.0	M	102.8
4/18/2021 21:00	5.0	316.4	-9.3	85.4	2.1	0.0	M	102.8
4/18/2021 22:00	4.9	303.1	-9.4	85.9	0.0	0.0	M	102.8
4/18/2021 23:00	3.5	291.0	-10.4	87.0	0.0	0.0	M	102.8
4/19/2021 0:00	5.5	275.1	-12.3	90.8	0.0	0.0	M	102.7
4/19/2021 1:00	5.3	263.6	-13.8	90.9	0.0	0.0	M	102.7
4/19/2021 2:00	7.2	269.4	-13.0	91.9	0.0	0.0	M	102.6
4/19/2021 3:00	8.5	269.0	-11.3	92.8	0.0	0.0	M	102.5
4/19/2021 4:00	11.0	261.2	-10.6	93.3	1.3	0.0	M	102.4
4/19/2021 5:00	11.8	267.2	-10.1	93.5	13.6	0.0	M	102.4
4/19/2021 6:00	13.6	269.1	-9.4	93.8	54.4	0.0	M	102.2
4/19/2021 7:00	14.8	269.5	-8.9	93.9	101.8	0.0	M	101.9
4/19/2021 8:00	16.4	269.7	-8.0	94.6	143.5	1.0	M	101.9
4/19/2021 9:00	15.2	271.5	-7.3	94.2	264.3	1.0	M	101.8
4/19/2021 10:00	15.0	270.2	-6.7	92.5	355.5	1.0	M	101.8
4/19/2021 11:00	14.5	268.5	-6.0	90.4	468.0	1.0	M	101.8
4/19/2021 12:00	12.5	267.2	-5.4	88.1	543.4	1.0	M	101.9
4/19/2021 13:00	9.1	275.8	-4.7	86.6	534.6	1.0	M	101.9
4/19/2021 14:00	9.5	267.5	-4.4	85.7	534.5	1.0	M	101.7
4/19/2021 15:00	10.4	266.8	-4.2	85.7	396.7	1.0	M	101.6
4/19/2021 16:00	10.4	268.5	-3.6	84.9	311.4	1.0	M	101.5
4/19/2021 17:00	11.2	269.7	-3.4	84.9	323.9	1.0	M	101.4
4/19/2021 18:00	10.7	263.9	-3.9	87.6	165.6	1.0	M	101.4
4/19/2021 19:00	9.4	266.2	-4.2	88.5	96.7	0.0	M	101.3
4/19/2021 20:00	9.8	259.8	-4.1	86.6	73.7	0.0	M	101.2
4/19/2021 21:00	8.6	275.9	-4.7	87.6	7.3	0.0	M	101.2
4/19/2021 22:00	7.7	271.4	-5.5	89.4	0.0	0.0	M	101.1
4/19/2021 23:00	8.5	259.6	-5.2	86.0	0.0	0.0	M	101.0
4/20/2021 0:00	7.6	274.1	-5.3	85.5	0.0	0.0	M	101.0
4/20/2021 1:00	6.0	281.2	-6.7	87.6	0.0	0.0	M	101.0
4/20/2021 2:00	6.6	280.0	-7.0	89.2	0.0	0.0	M	100.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/20/2021 3:00	5.2	292.8	-7.5	91.6	0.0	0.0	M	100.9
4/20/2021 4:00	4.8	279.9	-8.4	92.2	1.8	0.0	M	100.8
4/20/2021 5:00	5.1	281.9	-8.8	93.1	13.4	0.0	M	100.8
4/20/2021 6:00	5.7	280.0	-8.9	94.2	44.4	0.0	M	100.7
4/20/2021 7:00	2.1	274.1	-8.8	94.3	97.3	0.0	M	100.7
4/20/2021 8:00	1.4	239.1	-8.8	93.6	180.6	1.0	M	100.7
4/20/2021 9:00	1.2	162.8	-8.1	94.2	287.0	1.0	M	100.6
4/20/2021 10:00	2.2	147.4	-7.4	93.1	430.7	1.0	M	100.5
4/20/2021 11:00	1.6	129.9	-6.7	91.8	519.8	1.0	M	100.4
4/20/2021 12:00	1.0	120.0	-4.8	87.1	582.1	1.0	M	100.4
4/20/2021 13:00	1.2	175.4	-2.6	81.0	588.4	1.0	M	100.3
4/20/2021 14:00	4.8	259.8	-2.4	78.7	557.9	1.0	M	100.2
4/20/2021 15:00	8.1	262.1	-1.7	78.3	585.7	1.0	M	100.1
4/20/2021 16:00	11.6	263.6	-4.0	88.2	328.9	1.0	M	100.1
4/20/2021 17:00	13.4	261.5	-7.0	92.2	157.2	1.0	M	100.1
4/20/2021 18:00	9.5	266.3	-7.4	93.2	143.9	1.0	M	100.1
4/20/2021 19:00	9.2	283.7	-6.8	93.0	112.7	0.0	M	100.1
4/20/2021 20:00	10.8	285.4	-6.7	92.7	16.1	0.0	M	100.1
4/20/2021 21:00	11.7	274.5	-6.9	93.0	2.2	0.0	M	100.2
4/20/2021 22:00	8.3	272.5	-7.3	93.5	0.0	0.0	M	100.3
4/20/2021 23:00	7.8	302.7	-6.4	89.7	0.0	0.0	M	100.3
4/21/2021 0:00	9.8	303.0	-7.0	86.0	0.0	0.0	M	100.4
4/21/2021 1:00	10.1	291.6	-8.8	89.3	0.0	0.0	M	100.3
4/21/2021 2:00	9.8	294.8	-9.4	89.1	0.0	0.0	M	100.4
4/21/2021 3:00	9.6	294.1	-10.1	88.6	0.0	0.0	M	100.4
4/21/2021 4:00	7.8	288.8	-10.7	88.7	2.3	0.0	M	100.5
4/21/2021 5:00	7.7	285.0	-11.1	88.7	19.0	0.0	M	100.4
4/21/2021 6:00	7.0	283.6	-11.1	89.1	57.0	0.0	M	100.4
4/21/2021 7:00	8.2	286.0	-10.5	88.0	87.3	0.0	M	100.3
4/21/2021 8:00	10.2	298.8	-10.6	85.1	157.8	1.0	M	100.3
4/21/2021 9:00	10.6	297.1	-12.3	83.4	194.8	1.0	M	100.4
4/21/2021 10:00	11.0	289.6	-12.8	79.5	331.0	1.0	M	100.4
4/21/2021 11:00	11.6	276.2	-12.6	81.1	576.3	1.0	M	100.3
4/21/2021 12:00	12.5	280.6	-12.4	81.5	609.0	1.0	M	100.3
4/21/2021 13:00	13.6	273.0	-12.2	82.8	568.4	1.0	M	100.2
4/21/2021 14:00	13.5	270.3	-12.1	83.2	469.7	1.0	M	100.2
4/21/2021 15:00	13.8	270.5	-11.8	83.5	431.9	1.0	M	100.2
4/21/2021 16:00	11.8	268.1	-11.6	84.5	450.7	1.0	M	100.2
4/21/2021 17:00	12.0	264.7	-11.5	87.0	329.9	1.0	M	100.1
4/21/2021 18:00	12.8	267.4	-12.2	88.3	171.2	1.0	M	100.1
4/21/2021 19:00	10.5	281.8	-12.7	89.1	112.1	0.0	M	100.1
4/21/2021 20:00	8.9	277.8	-14.2	84.4	40.2	0.0	M	100.1
4/21/2021 21:00	8.3	272.8	-14.7	87.8	3.9	0.0	M	100.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/21/2021 22:00	8.4	274.0	-15.2	88.5	0.1	0.0	M	100.1
4/21/2021 23:00	7.9	274.8	-15.5	88.6	0.0	0.0	M	100.1
4/22/2021 0:00	7.2	275.9	-16.3	88.5	0.0	0.0	M	100.1
4/22/2021 1:00	6.8	279.6	-16.8	88.3	0.0	0.0	M	100.1
4/22/2021 2:00	6.9	274.4	-17.9	87.3	0.0	0.0	M	100.1
4/22/2021 3:00	6.3	278.4	-19.4	86.2	0.0	0.0	M	100.1
4/22/2021 4:00	5.9	282.3	-20.5	85.3	2.7	0.0	M	100.2
4/22/2021 5:00	4.8	293.1	-21.2	84.4	27.5	0.0	M	100.2
4/22/2021 6:00	5.4	282.7	-21.4	83.6	93.2	0.0	M	100.2
4/22/2021 7:00	6.4	279.3	-20.4	83.0	169.9	1.0	M	100.2
4/22/2021 8:00	9.0	271.7	-19.8	83.3	261.7	1.0	M	100.2
4/22/2021 9:00	9.5	283.0	-18.2	83.9	340.4	1.0	M	100.2
4/22/2021 10:00	8.8	290.0	-16.6	83.9	426.4	1.0	M	100.3
4/22/2021 11:00	9.2	303.6	-15.3	83.1	513.3	1.0	M	100.3
4/22/2021 12:00	9.3	315.3	-14.8	82.0	515.9	1.0	M	100.4
4/22/2021 13:00	8.3	316.7	-14.6	80.3	510.7	1.0	M	100.5
4/22/2021 14:00	7.8	304.3	-14.2	80.9	470.3	1.0	M	100.5
4/22/2021 15:00	8.7	308.3	-13.9	81.4	429.5	1.0	M	100.5
4/22/2021 16:00	8.6	316.5	-13.9	81.5	340.7	1.0	M	100.6
4/22/2021 17:00	8.5	312.8	-14.0	81.2	299.2	1.0	M	100.7
4/22/2021 18:00	7.6	304.3	-14.2	80.9	146.5	1.0	M	100.7
4/22/2021 19:00	7.7	300.4	-14.3	83.6	87.7	0.0	M	100.7
4/22/2021 20:00	8.3	319.3	-15.0	83.7	32.5	0.0	M	100.7
4/22/2021 21:00	9.2	316.9	-15.2	83.4	4.0	0.0	M	100.7
4/22/2021 22:00	9.6	319.0	-15.8	84.2	0.2	0.0	M	100.7
4/22/2021 23:00	8.7	315.7	-16.2	85.0	0.0	0.0	M	100.7
4/23/2021 0:00	9.8	318.3	-15.9	84.2	0.0	0.0	M	100.8
4/23/2021 1:00	9.5	323.0	-16.3	84.3	0.0	0.0	M	100.8
4/23/2021 2:00	9.3	321.8	-16.9	84.1	0.0	0.0	M	100.8
4/23/2021 3:00	9.4	326.5	-17.6	84.1	0.0	0.0	M	100.8
4/23/2021 4:00	10.4	331.5	-17.9	83.6	3.4	0.0	M	100.8
4/23/2021 5:00	10.2	331.3	-18.2	83.6	47.8	0.0	M	100.8
4/23/2021 6:00	9.7	323.9	-18.0	82.7	116.5	0.0	M	100.9
4/23/2021 7:00	10.8	321.0	-18.1	80.6	197.1	1.0	M	100.9
4/23/2021 8:00	9.4	317.3	-17.9	79.8	224.5	1.0	M	100.9
4/23/2021 9:00	8.4	306.3	-17.3	78.4	329.3	1.0	M	100.9
4/23/2021 10:00	9.3	309.2	-16.8	77.8	430.7	1.0	M	100.9
4/23/2021 11:00	9.5	302.6	-16.3	76.9	570.5	1.0	M	100.9
4/23/2021 12:00	9.5	300.8	-16.2	77.3	551.4	1.0	M	100.9
4/23/2021 13:00	9.2	297.3	-16.0	76.9	559.3	1.0	M	100.9
4/23/2021 14:00	8.9	299.9	-15.9	79.0	426.6	1.0	M	100.9
4/23/2021 15:00	8.9	308.8	-15.7	80.2	352.5	1.0	M	100.9
4/23/2021 16:00	8.7	308.3	-15.8	81.8	277.6	1.0	M	100.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:mm	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/23/2021 17:00	8.5	315.9	-15.8	83.0	197.2	1.0	M	101.0
4/23/2021 18:00	7.9	314.6	-16.0	82.4	149.9	1.0	M	101.0
4/23/2021 19:00	7.3	304.2	-16.4	82.4	63.0	0.0	M	101.0
4/23/2021 20:00	6.6	301.0	-16.8	81.7	25.6	0.0	M	101.0
4/23/2021 21:00	6.6	299.5	-16.7	84.6	5.3	0.0	M	101.0
4/23/2021 22:00	6.3	301.5	-16.6	86.6	0.1	0.0	M	100.9
4/23/2021 23:00	5.9	295.2	-16.5	87.5	0.0	0.0	M	100.9
4/24/2021 0:00	5.9	306.7	-16.6	87.6	0.0	0.0	M	100.8
4/24/2021 1:00	6.7	317.4	-16.7	87.1	0.0	0.0	M	100.8
4/24/2021 2:00	6.6	316.9	-17.0	86.8	0.0	0.0	M	100.7
4/24/2021 3:00	7.2	317.6	-17.2	86.7	0.1	0.0	M	100.7
4/24/2021 4:00	7.0	323.9	-17.4	86.5	3.6	0.0	M	100.7
4/24/2021 5:00	6.0	328.9	-18.1	85.8	41.3	0.0	M	100.7
4/24/2021 6:00	5.0	332.9	-18.8	84.8	104.3	0.0	M	100.7
4/24/2021 7:00	5.0	354.1	-18.6	82.4	210.7	1.0	M	100.7
4/24/2021 8:00	4.2	340.8	-18.5	79.4	227.1	1.0	M	100.7
4/24/2021 9:00	3.9	323.5	-17.9	76.0	350.7	1.0	M	100.7
4/24/2021 10:00	4.5	302.7	-17.3	75.9	495.3	1.0	M	100.7
4/24/2021 11:00	5.3	295.8	-16.6	77.1	538.4	1.0	M	100.7
4/24/2021 12:00	5.6	304.2	-16.3	77.0	588.8	1.0	M	100.7
4/24/2021 13:00	6.1	289.6	-15.5	77.6	619.4	1.0	M	100.7
4/24/2021 14:00	6.5	300.5	-15.2	79.0	571.0	1.0	M	100.7
4/24/2021 15:00	6.7	310.8	-14.7	79.2	550.0	1.0	M	100.7
4/24/2021 16:00	5.7	305.7	-14.3	79.6	436.5	1.0	M	100.7
4/24/2021 17:00	5.9	292.5	-14.2	80.1	371.3	1.0	M	100.8
4/24/2021 18:00	5.4	286.7	-14.7	81.2	232.0	1.0	M	100.8
4/24/2021 19:00	5.7	282.5	-15.6	83.0	167.9	1.0	M	100.8
4/24/2021 20:00	4.9	284.0	-16.7	83.5	76.7	0.0	M	100.8
4/24/2021 21:00	4.6	278.7	-17.2	86.0	7.3	0.0	M	100.8
4/24/2021 22:00	4.7	287.6	-17.4	87.3	0.2	0.0	M	100.7
4/24/2021 23:00	6.0	281.1	-17.0	88.1	0.0	0.0	M	100.6
4/25/2021 0:00	7.3	281.5	-17.4	87.6	0.0	0.0	M	100.6
4/25/2021 1:00	6.8	283.3	-18.1	87.4	0.0	0.0	M	100.7
4/25/2021 2:00	6.2	285.1	-18.2	87.1	0.0	0.0	M	100.6
4/25/2021 3:00	5.9	286.2	-18.8	86.6	0.2	0.0	M	100.7
4/25/2021 4:00	4.8	285.6	-19.7	85.9	5.2	0.0	M	100.6
4/25/2021 5:00	4.6	289.3	-19.2	86.2	34.1	0.0	M	100.6
4/25/2021 6:00	6.0	279.8	-19.0	85.6	92.3	0.0	M	100.6
4/25/2021 7:00	6.0	274.7	-18.7	84.4	174.7	1.0	M	100.6
4/25/2021 8:00	4.9	274.2	-18.1	82.7	318.3	1.0	M	100.6
4/25/2021 9:00	5.6	277.6	-18.0	82.4	406.4	1.0	M	100.6
4/25/2021 10:00	6.1	279.5	-17.4	81.2	564.3	1.0	M	100.7
4/25/2021 11:00	6.2	282.9	-17.0	81.1	539.4	1.0	M	100.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/25/2021 12:00	3.8	289.3	-15.6	78.1	607.0	1.0	M	100.8
4/25/2021 13:00	1.8	289.5	-14.2	72.5	627.3	1.0	M	100.8
4/25/2021 14:00	1.3	269.3	-13.7	71.8	606.5	1.0	M	100.9
4/25/2021 15:00	1.4	24.4	-14.1	71.8	555.4	1.0	M	101.0
4/25/2021 16:00	2.0	45.9	-15.2	74.9	479.5	1.0	M	101.1
4/25/2021 17:00	2.9	65.9	-15.5	76.2	384.2	1.0	M	101.1
4/25/2021 18:00	3.3	88.9	-15.9	77.4	278.3	1.0	M	101.2
4/25/2021 19:00	3.3	84.2	-16.9	79.5	173.0	1.0	M	101.2
4/25/2021 20:00	3.0	76.7	-18.1	81.4	82.7	0.0	M	101.3
4/25/2021 21:00	3.8	78.1	-19.4	83.1	15.6	0.0	M	101.4
4/25/2021 22:00	2.1	65.9	-20.6	84.0	0.9	0.0	M	101.5
4/25/2021 23:00	2.4	106.7	-22.0	83.2	0.0	0.0	M	101.6
4/26/2021 0:00	1.5	105.3	-22.6	82.3	0.0	0.0	M	101.6
4/26/2021 1:00	1.3	68.4	-23.3	81.1	0.0	0.0	M	101.7
4/26/2021 2:00	0.6	44.8	-23.9	81.4	0.0	0.0	M	101.8
4/26/2021 3:00	0.6	88.0	-24.1	82.0	0.2	0.0	M	101.8
4/26/2021 4:00	1.4	39.5	-24.4	82.4	7.5	0.0	M	101.9
4/26/2021 5:00	0.8	80.2	-23.4	81.9	63.6	0.0	M	101.9
4/26/2021 6:00	1.4	56.7	-22.6	78.5	149.4	1.0	M	102.0
4/26/2021 7:00	1.3	60.4	-22.2	76.5	214.7	1.0	M	102.0
4/26/2021 8:00	1.5	54.6	-21.5	74.1	327.2	1.0	M	102.0
4/26/2021 9:00	1.1	273.6	-18.2	69.5	458.1	1.0	M	102.0
4/26/2021 10:00	3.5	296.9	-19.2	73.0	529.9	1.0	M	102.0
4/26/2021 11:00	3.8	297.0	-19.2	76.0	617.1	1.0	M	102.0
4/26/2021 12:00	3.9	283.8	-18.5	75.6	654.1	1.0	M	101.9
4/26/2021 13:00	5.3	282.5	-18.3	78.5	643.9	1.0	M	101.9
4/26/2021 14:00	6.1	288.5	-18.1	79.1	583.6	1.0	M	101.9
4/26/2021 15:00	6.2	289.5	-18.1	78.2	585.8	1.0	M	101.8
4/26/2021 16:00	7.5	277.1	-17.6	80.3	415.4	1.0	M	101.7
4/26/2021 17:00	8.9	279.9	-17.3	81.8	276.6	1.0	M	101.6
4/26/2021 18:00	9.9	278.1	-17.4	84.2	179.8	1.0	M	101.5
4/26/2021 19:00	10.6	275.0	-17.3	85.4	102.5	0.0	M	101.3
4/26/2021 20:00	13.0	268.9	-17.5	86.0	37.8	0.0	M	101.2
4/26/2021 21:00	14.2	265.8	-17.1	86.5	7.5	0.0	M	101.1
4/26/2021 22:00	14.5	264.6	-16.8	87.2	0.3	0.0	M	100.9
4/26/2021 23:00	15.2	262.9	-16.5	87.9	0.0	0.0	M	100.7
4/27/2021 0:00	15.0	258.8	-16.5	88.2	0.0	0.0	M	100.7
4/27/2021 1:00	15.1	257.4	-16.6	88.2	0.0	0.0	M	100.6
4/27/2021 2:00	15.4	254.7	-16.5	88.4	0.0	0.0	M	100.4
4/27/2021 3:00	15.0	251.2	-16.4	88.6	0.2	0.0	M	100.4
4/27/2021 4:00	13.3	246.0	-16.2	88.2	7.1	0.0	M	100.4
4/27/2021 5:00	11.1	246.1	-16.1	87.3	40.6	0.0	M	100.5
4/27/2021 6:00	6.4	224.0	-15.6	85.7	114.2	0.0	M	100.6

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/27/2021 7:00	4.6	190.9	-14.9	82.6	195.9	1.0	M	100.6
4/27/2021 8:00	6.0	167.5	-15.3	81.8	309.5	1.0	M	100.6
4/27/2021 9:00	6.0	155.1	-15.1	81.4	447.0	1.0	M	100.7
4/27/2021 10:00	6.1	157.8	-14.8	80.0	531.4	1.0	M	100.7
4/27/2021 11:00	5.9	145.5	-14.2	78.5	592.2	1.0	M	100.7
4/27/2021 12:00	7.1	129.0	-14.0	78.6	631.6	1.0	M	100.8
4/27/2021 13:00	7.0	111.0	-13.0	84.7	637.7	1.0	M	100.8
4/27/2021 14:00	8.9	105.1	-13.1	84.6	617.7	1.0	M	100.8
4/27/2021 15:00	9.0	102.3	-13.6	84.5	566.6	1.0	M	101.0
4/27/2021 16:00	8.4	99.5	-13.9	82.6	487.9	1.0	M	101.0
4/27/2021 17:00	8.2	84.4	-14.8	78.2	393.9	1.0	M	101.0
4/27/2021 18:00	6.7	80.9	-15.4	79.5	338.7	1.0	M	101.1
4/27/2021 19:00	7.4	69.6	-15.6	81.1	147.9	1.0	M	101.1
4/27/2021 20:00	7.5	55.4	-15.4	83.9	54.6	0.0	M	101.1
4/27/2021 21:00	7.1	52.6	-15.4	85.6	18.9	0.0	M	101.1
4/27/2021 22:00	5.7	37.2	-15.2	86.3	1.1	0.0	M	101.1
4/27/2021 23:00	6.0	26.5	-15.6	85.2	0.0	0.0	M	101.1
4/28/2021 0:00	6.2	357.4	-16.4	86.3	0.0	0.0	M	101.0
4/28/2021 1:00	9.2	2.9	-17.1	86.5	0.0	0.0	M	101.0
4/28/2021 2:00	8.4	14.2	-16.9	87.1	0.0	0.0	M	100.9
4/28/2021 3:00	10.0	27.6	-15.5	87.8	0.1	0.0	M	100.9
4/28/2021 4:00	9.0	17.3	-14.6	87.7	4.1	0.0	M	100.9
4/28/2021 5:00	7.3	359.1	-13.9	87.9	26.0	0.0	M	101.0
4/28/2021 6:00	6.4	350.1	-13.0	87.3	194.3	1.0	M	101.0
4/28/2021 7:00	6.1	12.0	-12.1	86.6	316.8	1.0	M	101.0
4/28/2021 8:00	8.7	25.9	-11.5	86.0	339.7	1.0	M	100.9
4/28/2021 9:00	9.5	27.5	-11.1	85.3	465.9	1.0	M	101.0
4/28/2021 10:00	10.2	29.6	-10.5	84.8	531.1	1.0	M	101.0
4/28/2021 11:00	10.5	26.8	-10.0	84.8	599.6	1.0	M	101.0
4/28/2021 12:00	10.0	27.6	-9.5	85.4	637.1	1.0	M	101.0
4/28/2021 13:00	8.5	15.8	-8.6	84.7	634.7	1.0	M	101.1
4/28/2021 14:00	8.7	6.5	-8.3	86.5	550.6	1.0	M	101.0
4/28/2021 15:00	10.9	6.4	-8.0	86.7	581.6	1.0	M	101.1
4/28/2021 16:00	9.8	6.7	-7.7	85.9	384.7	1.0	M	101.1
4/28/2021 17:00	8.9	10.0	-7.2	85.9	284.9	1.0	M	101.2
4/28/2021 18:00	10.3	351.2	-7.1	81.7	198.8	1.0	M	101.1
4/28/2021 19:00	8.9	342.4	-7.4	79.7	107.8	0.0	M	101.1
4/28/2021 20:00	8.3	332.5	-8.2	79.4	52.2	0.0	M	101.1
4/28/2021 21:00	9.8	338.4	-9.2	80.8	11.6	0.0	M	101.1
4/28/2021 22:00	9.8	333.4	-9.3	83.1	0.9	0.0	M	101.0
4/28/2021 23:00	10.2	350.9	-9.3	81.4	0.0	0.0	M	101.0
4/29/2021 0:00	9.8	349.2	-9.5	81.1	0.0	0.0	M	101.0
4/29/2021 1:00	4.7	349.9	-10.1	83.6	0.0	0.0	M	101.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/29/2021 2:00	5.0	308.7	-10.8	86.4	0.0	0.0	M	101.0
4/29/2021 3:00	8.0	320.9	-11.9	89.5	0.2	0.0	M	101.0
4/29/2021 4:00	6.9	310.2	-12.5	89.8	4.1	0.0	M	100.9
4/29/2021 5:00	7.9	321.0	-12.8	90.2	20.6	0.0	M	100.9
4/29/2021 6:00	8.5	321.8	-12.8	90.0	58.8	0.0	M	100.9
4/29/2021 7:00	9.1	318.5	-12.9	89.6	113.9	0.0	M	100.9
4/29/2021 8:00	7.8	312.4	-12.9	89.1	200.8	1.0	M	100.9
4/29/2021 9:00	8.3	322.5	-12.8	88.3	270.7	1.0	M	101.0
4/29/2021 10:00	6.8	340.8	-12.1	87.6	376.3	1.0	M	101.0
4/29/2021 11:00	5.6	350.5	-10.9	85.9	534.6	1.0	M	101.0
4/29/2021 12:00	4.3	346.4	-9.9	84.4	601.3	1.0	M	101.0
4/29/2021 13:00	3.4	330.0	-8.9	81.9	620.3	1.0	M	101.1
4/29/2021 14:00	3.0	279.6	-8.3	79.8	601.8	1.0	M	101.1
4/29/2021 15:00	3.8	264.3	-8.9	82.5	544.0	1.0	M	101.1
4/29/2021 16:00	4.2	258.9	-9.9	86.4	345.7	1.0	M	101.1
4/29/2021 17:00	2.9	267.1	-9.8	86.6	314.3	1.0	M	101.1
4/29/2021 18:00	3.1	257.7	-10.4	88.4	201.7	1.0	M	101.1
4/29/2021 19:00	1.8	258.8	-10.6	89.7	99.3	0.0	M	101.1
4/29/2021 20:00	1.9	193.7	-10.9	90.6	46.4	0.0	M	101.1
4/29/2021 21:00	1.5	145.6	-11.8	91.5	12.0	0.0	M	101.1
4/29/2021 22:00	2.1	144.4	-13.4	91.1	1.6	0.0	M	101.1
4/29/2021 23:00	2.8	142.0	-14.2	90.9	0.0	0.0	M	101.1
4/30/2021 0:00	3.0	141.6	-14.4	90.3	0.0	0.0	M	101.1
4/30/2021 1:00	4.5	141.1	-14.5	90.2	0.0	0.0	M	101.0
4/30/2021 2:00	4.3	132.0	-15.6	89.5	0.0	0.0	M	101.1
4/30/2021 3:00	3.3	130.3	-16.3	88.9	2.3	0.0	M	101.0
4/30/2021 4:00	4.2	136.1	-17.3	87.8	31.1	0.0	M	101.0
4/30/2021 5:00	4.7	131.3	-16.4	88.6	51.9	0.0	M	101.0
4/30/2021 6:00	6.3	139.7	-15.6	89.0	144.1	1.0	M	101.0
4/30/2021 7:00	7.8	136.5	-14.1	88.8	220.5	1.0	M	101.0
4/30/2021 8:00	7.8	137.1	-13.3	87.4	279.0	1.0	M	100.9
4/30/2021 9:00	8.7	137.0	-11.6	84.5	443.3	1.0	M	101.0
4/30/2021 10:00	9.4	134.9	-10.6	84.6	468.8	1.0	M	101.0
4/30/2021 11:00	9.7	136.7	-10.1	84.5	551.9	1.0	M	100.9
4/30/2021 12:00	10.5	139.4	-10.0	83.4	583.0	1.0	M	101.0
4/30/2021 13:00	9.8	142.8	-9.4	83.6	587.0	1.0	M	101.0
4/30/2021 14:00	10.0	137.4	-9.0	84.2	546.5	1.0	M	101.1
4/30/2021 15:00	9.8	135.8	-8.8	82.0	475.6	1.0	M	101.1
4/30/2021 16:00	10.1	137.5	-9.3	80.5	479.7	1.0	M	101.1
4/30/2021 17:00	10.3	131.5	-9.8	82.5	455.6	1.0	M	101.2
4/30/2021 18:00	9.9	129.3	-10.4	84.1	292.5	1.0	M	101.2
4/30/2021 19:00	9.3	130.5	-11.3	85.7	140.1	1.0	M	101.2
4/30/2021 20:00	9.2	131.3	-11.9	86.0	76.9	0.0	M	101.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
4/30/2021 21:00	8.6	136.1	-12.8	86.5	21.9	0.0	M	101.2
4/30/2021 22:00	7.7	143.0	-14.1	86.8	2.1	0.0	M	101.2
4/30/2021 23:00	7.3	147.0	-14.9	86.5	0.0	0.0	M	101.2
5/1/2021 0:00	5.7	136.3	-15.2	88.0	0.0	0.0	M	101.3
5/1/2021 1:00	5.2	136.7	-15.8	88.7	0.0	0.0	M	101.3
5/1/2021 2:00	2.2	151.6	-17.0	87.1	0.0	0.0	M	101.4
5/1/2021 3:00	1.2	126.6	-17.4	85.9	1.7	0.0	M	101.4
5/1/2021 4:00	1.5	65.2	-17.8	84.5	23.7	0.0	M	101.4
5/1/2021 5:00	1.8	93.3	-17.6	81.2	91.3	0.0	M	101.5
5/1/2021 6:00	1.5	102.8	-16.9	78.7	181.9	1.0	M	101.5
5/1/2021 7:00	2.0	108.2	-16.2	78.1	241.1	1.0	M	101.5
5/1/2021 8:00	1.6	104.4	-15.0	74.8	335.0	1.0	M	101.6
5/1/2021 9:00	2.5	123.2	-13.7	78.4	473.3	1.0	M	101.6
5/1/2021 10:00	2.6	133.0	-12.2	77.5	553.0	1.0	M	101.6
5/1/2021 11:00	3.5	132.4	-11.4	75.1	613.2	1.0	M	101.6
5/1/2021 12:00	3.6	131.8	-10.5	75.8	650.2	1.0	M	101.7
5/1/2021 13:00	3.5	137.0	-9.5	74.2	657.3	1.0	M	101.7
5/1/2021 14:00	3.0	130.9	-7.8	76.7	634.1	1.0	M	101.8
5/1/2021 15:00	3.1	122.5	-7.6	75.6	582.3	1.0	M	101.8
5/1/2021 16:00	2.8	138.8	-7.3	75.2	508.1	1.0	M	101.8
5/1/2021 17:00	1.0	112.7	-6.2	69.8	413.5	1.0	M	101.8
5/1/2021 18:00	0.9	110.6	-7.2	73.1	308.2	1.0	M	101.8
5/1/2021 19:00	1.5	127.2	-8.8	77.8	202.2	1.0	M	101.8
5/1/2021 20:00	2.3	130.6	-10.9	82.8	108.6	0.0	M	101.8
5/1/2021 21:00	1.8	120.4	-12.6	85.4	36.2	0.0	M	101.9
5/1/2021 22:00	1.8	135.9	-13.3	87.0	3.4	0.0	M	101.9
5/1/2021 23:00	1.1	137.4	-14.5	86.8	0.1	0.0	M	101.9
5/2/2021 0:00	0.4	149.1	-15.6	86.8	0.0	0.0	M	101.9
5/2/2021 1:00	0.7	121.5	-16.4	86.4	0.0	0.0	M	101.9
5/2/2021 2:00	0.7	117.5	-16.9	86.2	0.0	0.0	M	102.0
5/2/2021 3:00	0.9	91.7	-17.6	85.6	2.1	0.0	M	102.0
5/2/2021 4:00	0.4	89.9	-17.4	84.7	22.2	0.0	M	102.0
5/2/2021 5:00	0.4	65.1	-15.8	78.4	93.8	0.0	M	102.1
5/2/2021 6:00	0.7	58.2	-15.8	74.2	188.1	1.0	M	102.1
5/2/2021 7:00	0.4	87.9	-14.1	68.8	236.3	1.0	M	102.1
5/2/2021 8:00	0.8	88.6	-13.1	64.6	339.4	1.0	M	102.1
5/2/2021 9:00	1.0	87.5	-12.4	64.3	478.6	1.0	M	102.2
5/2/2021 10:00	1.4	100.3	-11.8	66.1	560.4	1.0	M	102.2
5/2/2021 11:00	1.3	104.7	-10.3	65.7	617.5	1.0	M	102.2
5/2/2021 12:00	1.0	123.6	-8.7	66.3	649.6	1.0	M	102.2
5/2/2021 13:00	0.9	111.3	-7.3	62.2	655.7	1.0	M	102.2
5/2/2021 14:00	1.1	108.8	-7.0	65.3	632.1	1.0	M	102.3
5/2/2021 15:00	0.8	121.3	-6.2	67.2	599.3	1.0	M	102.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/2/2021 16:00	1.0	115.5	-6.0	67.4	533.5	1.0	M	102.3
5/2/2021 17:00	1.1	115.5	-5.8	61.9	433.4	1.0	M	102.3
5/2/2021 18:00	0.9	123.8	-6.0	59.2	321.1	1.0	M	102.4
5/2/2021 19:00	0.5	130.9	-6.5	62.1	203.9	1.0	M	102.4
5/2/2021 20:00	0.7	109.6	-7.9	66.6	114.5	0.0	M	102.4
5/2/2021 21:00	0.5	106.2	-9.7	70.1	44.6	0.0	M	102.4
5/2/2021 22:00	0.8	113.6	-12.4	79.0	5.1	0.0	M	102.4
5/2/2021 23:00	0.4	77.6	-13.5	82.4	0.2	0.0	M	102.4
5/3/2021 0:00	0.2	78.8	-14.3	84.0	0.0	0.0	M	102.4
5/3/2021 1:00	0.3	95.6	-15.5	86.0	0.0	0.0	M	102.4
5/3/2021 2:00	0.1	104.1	-15.9	87.4	0.0	0.0	M	102.5
5/3/2021 3:00	C	C	-16.5	88.1	2.1	0.0	M	102.5
5/3/2021 4:00	C	C	-17.0	87.5	17.7	0.0	M	102.5
5/3/2021 5:00	C	C	-16.2	86.1	62.9	0.0	M	102.5
5/3/2021 6:00	0.1	84.5	-15.1	80.3	118.8	0.0	M	102.5
5/3/2021 7:00	0.1	100.6	-13.4	76.0	176.3	1.0	M	102.5
5/3/2021 8:00	0.1	102.2	-11.3	68.2	296.9	1.0	M	102.5
5/3/2021 9:00	C	C	-8.4	59.0	513.6	1.0	M	102.5
5/3/2021 10:00	0.3	118.0	-7.5	58.5	576.7	1.0	M	102.5
5/3/2021 11:00	0.3	111.5	-7.8	65.6	443.1	1.0	M	102.4
5/3/2021 12:00	0.4	82.1	-5.5	62.2	483.9	1.0	M	102.4
5/3/2021 13:00	1.0	32.9	-5.3	63.5	493.0	1.0	M	102.4
5/3/2021 14:00	2.3	311.8	-5.6	65.7	450.8	1.0	M	102.4
5/3/2021 15:00	2.7	301.6	-5.7	64.7	423.1	1.0	M	102.4
5/3/2021 16:00	2.5	313.7	-5.5	66.2	380.7	1.0	M	102.4
5/3/2021 17:00	2.7	295.3	-5.5	67.9	305.3	1.0	M	102.3
5/3/2021 18:00	2.5	304.8	-5.7	67.7	183.9	1.0	M	102.2
5/3/2021 19:00	3.5	306.1	-5.9	69.8	101.4	0.0	M	102.2
5/3/2021 20:00	3.1	295.5	-6.1	76.4	52.8	0.0	M	102.2
5/3/2021 21:00	2.7	305.3	-6.2	79.4	16.1	0.0	M	102.2
5/3/2021 22:00	2.1	337.9	-6.4	76.8	3.1	0.0	M	102.1
5/3/2021 23:00	2.4	333.9	-6.6	81.6	0.1	0.0	M	102.1
5/4/2021 0:00	2.5	348.6	-7.0	85.9	0.0	0.0	M	102.1
5/4/2021 1:00	1.7	327.5	-7.2	88.2	0.0	0.0	M	102.1
5/4/2021 2:00	1.5	317.5	-7.4	91.3	0.0	0.0	M	102.1
5/4/2021 3:00	2.7	310.2	-7.5	93.2	1.2	0.0	M	102.0
5/4/2021 4:00	3.0	319.1	-7.4	94.0	12.9	0.0	M	102.0
5/4/2021 5:00	2.2	329.3	-7.1	93.8	42.7	0.0	M	102.0
5/4/2021 6:00	1.3	329.2	-6.6	92.4	101.5	0.0	M	102.0
5/4/2021 7:00	1.7	303.0	-5.8	89.0	252.2	1.0	M	102.0
5/4/2021 8:00	1.9	275.2	-5.1	85.0	358.7	1.0	M	102.0
5/4/2021 9:00	2.7	269.0	-5.4	87.1	387.4	1.0	M	102.0
5/4/2021 10:00	3.5	270.8	-5.4	87.8	427.4	1.0	M	101.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/4/2021 11:00	3.3	274.9	-5.0	85.7	474.6	1.0	M	101.9
5/4/2021 12:00	2.8	282.2	-4.1	81.8	535.4	1.0	M	102.0
5/4/2021 13:00	2.9	279.3	-3.6	80.2	561.3	1.0	M	101.9
5/4/2021 14:00	2.8	273.7	-3.4	81.0	577.3	1.0	M	101.9
5/4/2021 15:00	1.9	275.3	-3.0	79.9	484.6	1.0	M	102.0
5/4/2021 16:00	0.6	259.4	-1.8	75.3	361.5	1.0	M	101.9
5/4/2021 17:00	0.9	118.1	-3.2	80.7	261.1	1.0	M	101.9
5/4/2021 18:00	1.0	137.6	-3.3	86.1	188.7	1.0	M	101.9
5/4/2021 19:00	1.1	135.8	-3.8	86.6	127.8	1.0	M	101.9
5/4/2021 20:00	1.3	118.6	-4.4	88.0	79.3	0.0	M	101.9
5/4/2021 21:00	1.1	132.1	-4.3	88.1	54.7	0.0	M	101.9
5/4/2021 22:00	1.0	117.8	-6.6	86.9	5.5	0.0	M	101.9
5/4/2021 23:00	0.6	78.3	-8.3	86.4	0.4	0.0	M	101.9
5/5/2021 0:00	0.7	72.4	-10.1	89.5	0.0	0.0	M	101.9
5/5/2021 1:00	0.9	102.8	-10.7	88.1	0.0	0.0	M	101.9
5/5/2021 2:00	0.8	110.7	-11.5	86.6	0.2	0.0	M	101.9
5/5/2021 3:00	0.7	100.2	-12.4	86.4	4.1	0.0	M	101.9
5/5/2021 4:00	1.2	89.9	-12.3	85.9	41.5	0.0	M	101.8
5/5/2021 5:00	1.7	105.7	-11.6	84.3	106.7	0.0	M	101.9
5/5/2021 6:00	1.4	117.1	-11.0	80.6	204.3	1.0	M	101.9
5/5/2021 7:00	1.6	112.6	-10.9	77.9	251.8	1.0	M	101.9
5/5/2021 8:00	2.7	134.0	-9.6	78.5	360.8	1.0	M	101.9
5/5/2021 9:00	1.8	134.5	-8.4	78.9	361.1	1.0	M	101.9
5/5/2021 10:00	1.4	142.5	-6.9	78.3	383.5	1.0	M	101.9
5/5/2021 11:00	1.8	249.6	-4.6	73.3	403.5	1.0	M	101.9
5/5/2021 12:00	3.4	265.3	-4.4	82.1	433.1	1.0	M	101.9
5/5/2021 13:00	5.2	275.8	-4.3	90.3	375.9	1.0	M	101.9
5/5/2021 14:00	6.1	270.8	-4.4	89.3	406.6	1.0	M	102.0
5/5/2021 15:00	7.1	263.4	-4.3	90.4	407.7	1.0	M	101.9
5/5/2021 16:00	7.4	260.6	-4.2	91.6	421.5	1.0	M	102.0
5/5/2021 17:00	6.4	273.0	-4.5	90.9	292.8	1.0	M	102.1
5/5/2021 18:00	4.6	279.6	-4.8	91.9	182.6	1.0	M	102.1
5/5/2021 19:00	5.0	278.1	-4.9	92.2	114.4	0.0	M	102.1
5/5/2021 20:00	4.7	272.5	-5.2	93.0	58.2	0.0	M	102.1
5/5/2021 21:00	3.9	277.5	-5.5	94.2	22.7	0.0	M	102.2
5/5/2021 22:00	4.3	267.5	-5.6	94.2	4.2	0.0	M	102.2
5/5/2021 23:00	4.4	267.3	-5.6	94.0	0.3	0.0	M	102.2
5/6/2021 0:00	4.3	275.0	-5.7	95.1	0.0	0.0	M	102.2
5/6/2021 1:00	3.7	292.7	-5.8	95.7	0.0	0.0	M	102.3
5/6/2021 2:00	4.2	285.7	-7.2	95.2	0.3	0.0	M	102.3
5/6/2021 3:00	5.1	285.5	-8.8	95.3	3.5	0.0	M	102.4
5/6/2021 4:00	4.9	287.7	-8.0	95.5	14.7	0.0	M	102.4
5/6/2021 5:00	4.6	284.8	-7.5	95.6	42.6	0.0	M	102.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/6/2021 6:00	4.3	286.2	-6.8	95.7	87.0	0.0	M	102.4
5/6/2021 7:00	7.3	279.8	-6.2	95.8	142.3	1.0	M	102.4
5/6/2021 8:00	8.1	282.5	-6.2	94.7	204.2	1.0	M	102.5
5/6/2021 9:00	5.6	293.2	-5.8	89.1	264.4	1.0	M	102.5
5/6/2021 10:00	4.3	294.2	-5.3	86.6	332.0	1.0	M	102.5
5/6/2021 11:00	5.3	293.2	-5.3	87.6	394.7	1.0	M	102.5
5/6/2021 12:00	4.8	290.1	-5.2	88.2	435.2	1.0	M	102.5
5/6/2021 13:00	6.3	289.1	-5.3	89.1	454.5	1.0	M	102.5
5/6/2021 14:00	4.0	286.1	-5.1	88.2	415.6	1.0	M	102.6
5/6/2021 15:00	3.2	281.5	-5.1	88.0	361.1	1.0	M	102.6
5/6/2021 16:00	2.4	271.1	-5.2	89.5	304.9	1.0	M	102.6
5/6/2021 17:00	2.3	286.8	-5.2	85.3	246.6	1.0	M	102.5
5/6/2021 18:00	1.8	286.8	-5.3	86.0	168.9	1.0	M	102.5
5/6/2021 19:00	1.0	268.4	-5.4	86.7	97.6	0.0	M	102.5
5/6/2021 20:00	0.6	133.8	-5.5	87.3	44.7	0.0	M	102.5
5/6/2021 21:00	0.9	110.5	-5.8	89.5	21.6	0.0	M	102.5
5/6/2021 22:00	1.1	147.4	-5.5	92.1	4.7	0.0	M	102.4
5/6/2021 23:00	0.8	127.8	-5.4	93.1	0.3	0.0	M	102.4
5/7/2021 0:00	0.9	89.8	-5.4	92.9	0.0	0.0	M	102.4
5/7/2021 1:00	0.7	112.7	-5.0	92.5	0.0	0.0	M	102.4
5/7/2021 2:00	3.3	166.8	-4.6	89.5	0.2	0.0	M	102.3
5/7/2021 3:00	3.0	152.5	-4.7	89.5	2.8	0.0	M	102.3
5/7/2021 4:00	2.6	152.8	-4.7	90.1	11.4	0.0	M	102.3
5/7/2021 5:00	2.9	123.8	-4.6	89.5	48.4	0.0	M	102.3
5/7/2021 6:00	2.5	120.4	-4.6	88.1	100.0	0.0	M	102.3
5/7/2021 7:00	1.7	136.3	-3.7	87.7	165.0	1.0	M	102.2
5/7/2021 8:00	2.8	137.0	-3.3	87.7	244.9	1.0	M	102.2
5/7/2021 9:00	2.6	128.5	-2.8	85.6	364.1	1.0	M	102.2
5/7/2021 10:00	2.7	143.6	-2.5	84.0	422.2	1.0	M	102.2
5/7/2021 11:00	1.6	120.5	-2.0	81.0	478.3	1.0	M	102.2
5/7/2021 12:00	1.0	119.3	-1.2	77.0	543.3	1.0	M	102.2
5/7/2021 13:00	1.1	91.4	-0.9	75.4	554.9	1.0	M	102.2
5/7/2021 14:00	1.4	70.2	-1.1	76.3	512.6	1.0	M	102.2
5/7/2021 15:00	2.9	57.9	-2.2	82.5	391.6	1.0	M	102.2
5/7/2021 16:00	2.9	63.4	-2.3	82.5	373.2	1.0	M	102.2
5/7/2021 17:00	2.7	81.0	-2.6	83.8	276.9	1.0	M	102.2
5/7/2021 18:00	3.4	104.7	-2.6	86.2	187.4	1.0	M	102.2
5/7/2021 19:00	4.4	85.3	-3.4	88.4	111.2	0.0	M	102.2
5/7/2021 20:00	4.9	86.7	-3.9	90.4	65.8	0.0	M	102.2
5/7/2021 21:00	5.2	85.6	-4.3	91.4	25.1	0.0	M	102.2
5/7/2021 22:00	5.6	80.3	-4.8	92.0	3.8	0.0	M	102.2
5/7/2021 23:00	5.3	85.2	-5.1	92.5	0.4	0.0	M	102.2
5/8/2021 0:00	4.8	83.6	-5.1	92.9	0.0	0.0	M	102.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/8/2021 1:00	5.1	84.8	-5.1	93.3	0.0	0.0	M	102.1
5/8/2021 2:00	5.6	82.5	-5.2	93.4	0.4	0.0	M	102.1
5/8/2021 3:00	6.6	84.0	-5.3	93.1	4.1	0.0	M	102.1
5/8/2021 4:00	7.8	89.9	-5.4	94.0	21.5	0.0	M	102.1
5/8/2021 5:00	8.3	95.6	-5.3	94.9	74.0	0.0	M	102.0
5/8/2021 6:00	9.3	93.0	-5.4	94.0	148.4	1.0	M	102.0
5/8/2021 7:00	8.3	105.5	-5.1	93.7	241.7	1.0	M	102.0
5/8/2021 8:00	8.2	104.8	-4.9	92.5	329.3	1.0	M	101.9
5/8/2021 9:00	7.7	103.4	-4.5	91.2	443.1	1.0	M	101.9
5/8/2021 10:00	7.5	112.4	-3.6	90.2	606.7	1.0	M	101.8
5/8/2021 11:00	8.0	106.0	-3.3	89.8	622.5	1.0	M	101.8
5/8/2021 12:00	8.3	103.5	-2.7	88.5	705.4	1.0	M	101.7
5/8/2021 13:00	6.6	87.2	-2.3	87.3	568.9	1.0	M	101.7
5/8/2021 14:00	6.7	67.6	-2.0	88.3	438.9	1.0	M	101.6
5/8/2021 15:00	6.0	72.3	-0.6	86.9	424.3	1.0	M	101.6
5/8/2021 16:00	4.6	84.5	0.4	88.0	252.4	1.0	M	101.5
5/8/2021 17:00	2.0	41.6	1.7	85.0	190.7	1.0	M	101.5
5/8/2021 18:00	2.4	58.1	2.5	80.7	202.2	1.0	M	101.4
5/8/2021 19:00	1.6	84.9	2.2	82.8	109.8	0.0	M	101.4
5/8/2021 20:00	4.6	175.3	3.1	75.7	53.6	0.0	M	101.3
5/8/2021 21:00	5.5	196.9	3.3	73.3	36.7	0.0	M	101.3
5/8/2021 22:00	4.1	209.5	2.8	76.9	11.0	0.0	M	101.3
5/8/2021 23:00	1.8	258.1	2.2	81.2	1.2	0.0	M	101.3
5/9/2021 0:00	0.4	117.0	1.3	84.2	0.0	0.0	M	101.3
5/9/2021 1:00	0.3	248.9	0.7	87.8	0.0	0.0	M	101.3
5/9/2021 2:00	0.4	327.1	0.3	90.0	0.6	0.0	M	101.3
5/9/2021 3:00	2.1	295.5	0.7	89.6	3.4	0.0	M	101.3
5/9/2021 4:00	1.6	278.7	-0.3	91.8	15.8	0.0	M	101.3
5/9/2021 5:00	2.4	20.2	-1.9	93.8	59.7	0.0	M	101.3
5/9/2021 6:00	2.0	25.8	-2.4	93.6	111.8	0.0	M	101.3
5/9/2021 7:00	0.9	55.2	-1.8	92.2	169.5	1.0	M	101.3
5/9/2021 8:00	1.6	65.0	-1.1	88.8	310.1	1.0	M	101.3
5/9/2021 9:00	2.6	72.9	-0.7	87.4	406.7	1.0	M	101.2
5/9/2021 10:00	3.2	84.1	-0.5	86.7	553.9	1.0	M	101.2
5/9/2021 11:00	3.9	80.6	-0.6	87.0	525.5	1.0	M	101.2
5/9/2021 12:00	4.1	82.1	-0.8	86.9	595.9	1.0	M	101.2
5/9/2021 13:00	4.4	89.7	-0.5	87.1	560.1	1.0	M	101.1
5/9/2021 14:00	4.9	84.2	-0.4	87.6	500.9	1.0	M	101.1
5/9/2021 15:00	6.2	86.5	-0.6	89.8	330.5	1.0	M	101.0
5/9/2021 16:00	6.4	95.4	-0.6	92.4	264.1	1.0	M	101.0
5/9/2021 17:00	5.7	115.1	0.2	92.4	318.5	1.0	M	100.9
5/9/2021 18:00	4.6	106.1	0.7	90.6	341.0	1.0	M	100.9
5/9/2021 19:00	4.7	81.8	-0.2	92.5	135.4	1.0	M	100.9

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/9/2021 20:00	5.5	78.3	-1.0	95.4	79.6	0.0	M	100.8
5/9/2021 21:00	5.4	77.9	-1.3	98.0	22.4	0.0	M	100.9
5/9/2021 22:00	4.6	80.8	-1.7	98.7	8.1	0.0	M	100.8
5/9/2021 23:00	2.9	74.6	-2.1	99.0	1.6	0.0	M	100.8
5/10/2021 0:00	1.8	87.6	-2.4	99.0	0.0	0.0	M	100.8
5/10/2021 1:00	1.3	100.8	-2.5	98.9	0.0	0.0	M	100.8
5/10/2021 2:00	0.7	116.7	-2.5	98.8	0.6	0.0	M	100.7
5/10/2021 3:00	0.9	124.0	-2.2	98.9	3.7	0.0	M	100.7
5/10/2021 4:00	2.0	65.5	-2.2	99.0	12.2	0.0	M	100.7
5/10/2021 5:00	1.9	15.1	-2.3	99.0	24.4	0.0	M	100.8
5/10/2021 6:00	3.3	343.5	-2.7	98.7	61.5	0.0	M	100.8
5/10/2021 7:00	3.9	330.9	-3.2	98.2	120.8	1.0	M	100.8
5/10/2021 8:00	6.4	358.3	-3.9	97.2	187.2	1.0	M	100.8
5/10/2021 9:00	7.8	4.9	-4.8	96.0	201.3	1.0	M	100.9
5/10/2021 10:00	7.2	358.7	-5.4	94.2	249.1	1.0	M	101.0
5/10/2021 11:00	8.7	3.7	-5.8	92.0	391.0	1.0	M	101.0
5/10/2021 12:00	9.2	3.5	-6.2	90.3	398.5	1.0	M	101.1
5/10/2021 13:00	10.1	1.0	-6.4	88.2	447.1	1.0	M	101.2
5/10/2021 14:00	10.2	359.7	-6.3	86.8	487.1	1.0	M	101.3
5/10/2021 15:00	9.4	356.1	-6.5	84.1	497.8	1.0	M	101.4
5/10/2021 16:00	9.5	359.9	-7.1	82.8	501.1	1.0	M	101.5
5/10/2021 17:00	8.6	354.2	-7.8	81.6	437.9	1.0	M	101.6
5/10/2021 18:00	7.4	347.5	-8.5	81.3	343.8	1.0	M	101.7
5/10/2021 19:00	7.2	323.4	-9.1	83.1	229.4	1.0	M	101.7
5/10/2021 20:00	9.8	319.6	-9.7	85.7	144.5	1.0	M	101.7
5/10/2021 21:00	10.3	320.1	-10.7	86.9	66.6	0.0	M	101.8
5/10/2021 22:00	9.6	321.1	-11.6	86.7	14.5	0.0	M	101.9
5/10/2021 23:00	7.7	325.5	-12.5	86.9	2.4	0.0	M	101.9
5/11/2021 0:00	7.8	327.9	-13.3	87.0	0.3	0.0	M	102.0
5/11/2021 1:00	7.0	336.8	-14.0	87.1	0.2	0.0	M	102.1
5/11/2021 2:00	5.9	304.3	-14.6	86.8	2.0	0.0	M	102.1
5/11/2021 3:00	4.9	282.7	-15.7	87.4	14.7	0.0	M	102.2
5/11/2021 4:00	6.3	294.2	-15.7	85.8	61.6	0.0	M	102.2
5/11/2021 5:00	5.2	283.5	-15.5	83.5	128.7	1.0	M	102.3
5/11/2021 6:00	3.1	294.5	-14.7	80.7	215.8	1.0	M	102.3
5/11/2021 7:00	3.3	285.0	-14.7	80.2	268.1	1.0	M	102.3
5/11/2021 8:00	5.4	279.4	-14.4	82.3	345.0	1.0	M	102.4
5/11/2021 9:00	5.6	281.1	-13.6	81.6	514.4	1.0	M	102.4
5/11/2021 10:00	5.8	277.2	-13.0	82.7	595.0	1.0	M	102.4
5/11/2021 11:00	6.4	277.9	-12.0	82.7	651.3	1.0	M	102.4
5/11/2021 12:00	6.3	275.3	-11.1	82.7	687.1	1.0	M	102.4
5/11/2021 13:00	4.8	274.4	-9.7	80.4	693.8	1.0	M	102.4
5/11/2021 14:00	6.2	270.8	-8.8	80.6	663.2	1.0	M	102.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/11/2021 15:00	5.7	271.4	-8.2	79.0	621.1	1.0	M	102.4
5/11/2021 16:00	5.0	271.1	-7.9	78.5	542.0	1.0	M	102.3
5/11/2021 17:00	4.3	274.2	-7.7	78.3	453.4	1.0	M	102.3
5/11/2021 18:00	2.8	273.7	-7.4	78.6	346.5	1.0	M	102.3
5/11/2021 19:00	2.1	275.0	-7.8	80.1	241.2	1.0	M	102.3
5/11/2021 20:00	1.6	291.5	-7.7	78.9	144.0	1.0	M	102.2
5/11/2021 21:00	0.6	83.8	-8.4	80.1	64.3	0.0	M	102.2
5/11/2021 22:00	0.6	103.0	-10.5	86.0	15.1	0.0	M	102.2
5/11/2021 23:00	0.7	95.0	-11.5	88.9	2.9	0.0	M	102.1
5/12/2021 0:00	1.1	63.3	-12.0	90.6	0.6	0.0	M	102.1
5/12/2021 1:00	1.7	73.4	-12.0	89.6	0.3	0.0	M	102.0
5/12/2021 2:00	1.6	62.5	-12.9	89.5	2.4	0.0	M	102.0
5/12/2021 3:00	1.8	52.9	-13.7	88.7	14.8	0.0	M	101.9
5/12/2021 4:00	1.2	55.4	-13.9	87.6	42.7	0.0	M	101.9
5/12/2021 5:00	1.1	53.7	-13.5	85.4	118.6	0.0	M	101.9
5/12/2021 6:00	0.9	59.0	-12.9	82.7	163.0	1.0	M	101.8
5/12/2021 7:00	0.9	68.7	-12.0	80.5	227.8	1.0	M	101.8
5/12/2021 8:00	0.9	69.6	-10.4	76.6	339.2	1.0	M	101.8
5/12/2021 9:00	1.0	74.3	-8.7	73.7	501.0	1.0	M	101.8
5/12/2021 10:00	1.8	56.9	-8.3	74.8	597.7	1.0	M	101.7
5/12/2021 11:00	2.2	36.2	-7.8	77.9	540.9	1.0	M	101.7
5/12/2021 12:00	2.6	35.6	-7.3	80.6	490.1	1.0	M	101.7
5/12/2021 13:00	4.8	21.1	-7.3	83.3	463.1	1.0	M	101.7
5/12/2021 14:00	4.4	16.8	-6.9	82.6	473.1	1.0	M	101.7
5/12/2021 15:00	5.4	22.5	-6.9	83.7	456.8	1.0	M	101.8
5/12/2021 16:00	6.3	27.6	-7.6	85.7	324.0	1.0	M	101.9
5/12/2021 17:00	6.6	25.5	-8.5	85.9	243.9	1.0	M	102.0
5/12/2021 18:00	7.2	24.1	-9.9	85.3	237.6	1.0	M	102.0
5/12/2021 19:00	6.1	25.8	-11.1	83.3	153.4	1.0	M	102.1
5/12/2021 20:00	6.9	13.1	-12.1	83.3	82.6	0.0	M	102.2
5/12/2021 21:00	6.2	9.4	-12.7	84.6	32.0	0.0	M	102.3
5/12/2021 22:00	5.3	9.7	-13.4	82.8	10.5	0.0	M	102.4
5/12/2021 23:00	4.1	353.7	-14.3	81.6	3.0	0.0	M	102.4
5/13/2021 0:00	4.2	335.5	-15.3	84.2	0.9	0.0	M	102.4
5/13/2021 1:00	5.4	359.8	-15.7	84.1	0.8	0.0	M	102.5
5/13/2021 2:00	5.3	3.3	-17.2	83.2	2.6	0.0	M	102.6
5/13/2021 3:00	3.3	355.1	-17.2	84.1	8.1	0.0	M	102.7
5/13/2021 4:00	4.6	323.0	-17.5	82.1	58.9	0.0	M	102.8
5/13/2021 5:00	4.3	333.4	-17.8	81.0	96.1	0.0	M	102.8
5/13/2021 6:00	4.0	331.7	-17.1	78.1	225.7	1.0	M	102.9
5/13/2021 7:00	4.0	329.3	-16.5	75.7	290.0	1.0	M	103.0
5/13/2021 8:00	4.6	305.4	-16.9	73.7	372.1	1.0	M	103.0
5/13/2021 9:00	4.6	297.9	-16.1	72.3	526.2	1.0	M	103.1

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/13/2021 10:00	5.3	321.1	-14.6	70.1	617.1	1.0	M	103.1
5/13/2021 11:00	6.9	319.7	-14.2	70.5	671.7	1.0	M	103.1
5/13/2021 12:00	7.4	321.5	-14.0	72.4	709.6	1.0	M	103.2
5/13/2021 13:00	7.0	319.0	-13.6	72.8	701.1	1.0	M	103.2
5/13/2021 14:00	6.5	309.9	-13.5	72.8	666.3	1.0	M	103.2
5/13/2021 15:00	6.9	300.9	-13.3	73.3	640.1	1.0	M	103.2
5/13/2021 16:00	6.8	305.0	-13.3	72.6	583.7	1.0	M	103.2
5/13/2021 17:00	6.3	317.0	-13.5	68.7	476.5	1.0	M	103.2
5/13/2021 18:00	6.6	306.4	-13.7	68.1	365.2	1.0	M	103.3
5/13/2021 19:00	6.0	296.3	-14.1	75.5	255.8	1.0	M	103.2
5/13/2021 20:00	5.0	288.4	-14.5	76.8	155.8	1.0	M	103.2
5/13/2021 21:00	5.7	281.5	-15.0	80.4	78.4	0.0	M	103.2
5/13/2021 22:00	6.2	284.9	-15.7	82.0	21.4	0.0	M	103.2
5/13/2021 23:00	5.2	282.9	-16.7	83.1	4.0	0.0	M	103.2
5/14/2021 0:00	4.2	275.8	-17.3	83.9	1.1	0.0	M	103.2
5/14/2021 1:00	3.4	288.1	-17.7	83.8	0.9	0.0	M	103.2
5/14/2021 2:00	3.5	287.6	-18.0	84.4	3.1	0.0	M	103.1
5/14/2021 3:00	3.1	287.0	-18.5	85.3	9.7	0.0	M	103.1
5/14/2021 4:00	3.3	266.5	-18.9	85.3	29.5	0.0	M	103.1
5/14/2021 5:00	4.4	265.1	-18.4	84.7	78.7	0.0	M	103.1
5/14/2021 6:00	4.6	272.0	-16.6	80.1	225.7	1.0	M	103.0
5/14/2021 7:00	5.6	266.2	-16.1	79.6	283.8	1.0	M	103.0
5/14/2021 8:00	7.2	272.9	-15.6	79.8	361.9	1.0	M	102.9
5/14/2021 9:00	6.3	273.6	-14.7	78.8	521.3	1.0	M	102.9
5/14/2021 10:00	6.0	278.0	-13.9	78.0	605.7	1.0	M	102.9
5/14/2021 11:00	6.6	282.0	-13.5	77.7	662.6	1.0	M	102.8
5/14/2021 12:00	5.9	285.1	-12.8	75.8	696.8	1.0	M	102.8
5/14/2021 13:00	5.1	288.0	-12.2	76.4	700.2	1.0	M	102.8
5/14/2021 14:00	4.3	291.6	-11.7	76.1	681.7	1.0	M	102.7
5/14/2021 15:00	4.8	292.3	-11.7	76.5	626.9	1.0	M	102.7
5/14/2021 16:00	4.9	292.8	-11.8	76.9	558.2	1.0	M	102.6
5/14/2021 17:00	4.4	293.4	-11.9	75.6	464.7	1.0	M	102.6
5/14/2021 18:00	3.9	288.2	-12.0	73.7	361.4	1.0	M	102.6
5/14/2021 19:00	3.6	291.2	-12.4	76.2	252.2	1.0	M	102.5
5/14/2021 20:00	3.4	307.9	-12.8	78.7	139.5	1.0	M	102.5
5/14/2021 21:00	3.7	318.6	-13.2	79.8	71.7	0.0	M	102.4
5/14/2021 22:00	2.9	294.9	-13.6	79.4	30.2	0.0	M	102.4
5/14/2021 23:00	3.4	289.5	-14.5	81.7	4.7	0.0	M	102.4
5/15/2021 0:00	2.3	280.8	-15.3	84.2	1.3	0.0	M	102.3
5/15/2021 1:00	2.6	287.6	-16.4	86.5	1.2	0.0	M	102.3
5/15/2021 2:00	2.1	293.4	-16.5	86.8	3.8	0.0	M	102.3
5/15/2021 3:00	2.3	266.4	-16.6	87.1	21.0	0.0	M	102.3
5/15/2021 4:00	2.8	278.7	-16.6	86.0	70.9	0.0	M	102.2

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/15/2021 5:00	2.8	280.8	-16.2	84.2	151.4	1.0	M	102.2
5/15/2021 6:00	3.3	280.3	-15.8	82.3	250.9	1.0	M	102.2
5/15/2021 7:00	5.2	282.0	-16.0	82.7	292.2	1.0	M	102.1
5/15/2021 8:00	5.2	276.9	-15.8	84.0	303.9	1.0	M	102.1
5/15/2021 9:00	5.5	284.2	-14.8	83.8	382.5	1.0	M	102.0
5/15/2021 10:00	6.4	283.3	-13.8	84.5	423.6	1.0	M	102.0
5/15/2021 11:00	7.3	279.5	-12.8	83.6	535.2	1.0	M	102.0
5/15/2021 12:00	7.2	277.4	-11.6	83.6	667.5	1.0	M	102.0
5/15/2021 13:00	7.0	280.7	-10.5	83.1	665.3	1.0	M	101.9
5/15/2021 14:00	6.8	291.9	-9.5	84.5	633.0	1.0	M	101.9
5/15/2021 15:00	7.6	296.5	-9.1	82.4	644.1	1.0	M	101.9
5/15/2021 16:00	6.2	298.7	-8.8	81.3	577.6	1.0	M	101.8
5/15/2021 17:00	6.1	293.8	-9.0	81.8	459.5	1.0	M	101.8
5/15/2021 18:00	5.7	303.5	-9.1	81.8	367.5	1.0	M	101.8
5/15/2021 19:00	5.1	299.8	-9.4	83.2	256.8	1.0	M	101.8
5/15/2021 20:00	4.8	304.7	-9.7	84.2	134.2	1.0	M	101.8
5/15/2021 21:00	6.1	296.0	-10.1	87.0	38.1	0.0	M	101.8
5/15/2021 22:00	5.0	295.0	-10.2	87.9	12.6	0.0	M	101.8
5/15/2021 23:00	4.3	286.3	-10.4	89.3	2.8	0.0	M	101.8
5/16/2021 0:00	4.2	283.1	-10.5	89.8	0.9	0.0	M	101.8
5/16/2021 1:00	4.8	285.1	-10.6	90.1	0.9	0.0	M	101.8
5/16/2021 2:00	3.7	273.1	-10.8	90.1	2.0	0.0	M	101.8
5/16/2021 3:00	3.7	284.5	-10.8	90.3	5.8	0.0	M	101.8
5/16/2021 4:00	6.3	286.0	-10.8	90.3	20.9	0.0	M	101.7
5/16/2021 5:00	6.0	288.4	-10.7	89.7	57.7	0.0	M	101.7
5/16/2021 6:00	5.3	296.2	-10.5	87.7	117.6	0.0	M	101.7
5/16/2021 7:00	5.6	279.7	-10.6	88.7	210.1	1.0	M	101.7
5/16/2021 8:00	4.8	288.4	-10.6	87.1	325.6	1.0	M	101.7
5/16/2021 9:00	4.6	287.6	-10.7	85.4	414.2	1.0	M	101.6
5/16/2021 10:00	5.3	278.6	-10.5	86.6	425.3	1.0	M	101.6
5/16/2021 11:00	5.7	276.4	-10.6	86.0	465.2	1.0	M	101.6
5/16/2021 12:00	5.4	269.9	-10.0	84.4	592.9	1.0	M	101.6
5/16/2021 13:00	7.0	274.3	-10.4	84.5	711.0	1.0	M	101.6
5/16/2021 14:00	6.4	279.5	-10.4	84.2	698.2	1.0	M	101.6
5/16/2021 15:00	5.4	276.6	-9.7	84.2	598.5	1.0	M	101.5
5/16/2021 16:00	4.6	299.1	-8.9	81.4	571.3	1.0	M	101.5
5/16/2021 17:00	5.4	294.3	-9.2	81.3	324.2	1.0	M	101.5
5/16/2021 18:00	4.7	314.2	-9.3	82.1	225.6	1.0	M	101.5
5/16/2021 19:00	5.3	306.2	-9.8	82.5	217.9	1.0	M	101.5
5/16/2021 20:00	4.3	298.4	-10.3	81.4	176.1	1.0	M	101.5
5/16/2021 21:00	3.2	316.4	-10.8	85.5	53.7	0.0	M	101.5
5/16/2021 22:00	2.1	273.0	-10.7	88.9	11.3	0.0	M	101.4
5/16/2021 23:00	3.9	274.9	-10.5	90.3	3.5	0.0	M	101.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/17/2021 0:00	5.0	284.1	-9.9	90.1	1.8	0.0	M	101.4
5/17/2021 1:00	5.9	289.8	-11.4	87.9	1.5	0.0	M	101.4
5/17/2021 2:00	5.8	296.2	-12.3	88.3	3.3	0.0	M	101.4
5/17/2021 3:00	5.1	293.6	-11.9	88.3	10.6	0.0	M	101.4
5/17/2021 4:00	6.0	287.5	-11.6	89.3	30.2	0.0	M	101.5
5/17/2021 5:00	5.1	273.9	-11.5	90.4	57.9	0.0	M	101.5
5/17/2021 6:00	4.6	298.4	-10.6	90.6	112.7	0.0	M	101.5
5/17/2021 7:00	5.3	351.0	-9.2	86.2	203.4	1.0	M	101.6
5/17/2021 8:00	6.2	1.0	-9.7	83.7	369.2	1.0	M	101.6
5/17/2021 9:00	5.4	4.5	-10.0	79.3	524.3	1.0	M	101.6
5/17/2021 10:00	5.0	12.2	-10.0	75.3	620.4	1.0	M	101.7
5/17/2021 11:00	4.4	9.2	-9.9	74.6	679.7	1.0	M	101.8
5/17/2021 12:00	4.5	336.0	-9.6	74.2	712.5	1.0	M	101.8
5/17/2021 13:00	5.0	350.4	-9.4	76.6	728.6	1.0	M	101.9
5/17/2021 14:00	6.1	359.5	-9.6	75.5	703.0	1.0	M	101.9
5/17/2021 15:00	5.5	358.3	-9.5	75.1	655.0	1.0	M	102.0
5/17/2021 16:00	5.7	4.3	-9.7	75.2	579.4	1.0	M	102.0
5/17/2021 17:00	5.8	359.7	-9.7	75.9	489.6	1.0	M	102.0
5/17/2021 18:00	5.9	359.9	-10.0	77.4	369.0	1.0	M	102.1
5/17/2021 19:00	5.0	359.2	-10.3	78.8	216.7	1.0	M	102.1
5/17/2021 20:00	4.4	9.4	-10.6	79.6	181.6	1.0	M	102.2
5/17/2021 21:00	3.3	16.4	-11.6	81.7	101.6	0.0	M	102.3
5/17/2021 22:00	2.5	22.3	-12.4	84.0	34.8	0.0	M	102.3
5/17/2021 23:00	1.9	44.9	-13.2	86.2	6.2	0.0	M	102.3
5/18/2021 0:00	1.8	31.1	-13.6	87.6	2.8	0.0	M	102.3
5/18/2021 1:00	0.8	39.4	-14.3	89.1	2.5	0.0	M	102.4
5/18/2021 2:00	0.5	49.6	-14.3	89.9	4.2	0.0	M	102.4
5/18/2021 3:00	0.6	97.2	-13.6	90.7	16.3	0.0	M	102.4
5/18/2021 4:00	0.6	109.7	-13.5	90.8	53.2	0.0	M	102.5
5/18/2021 5:00	1.0	147.4	-13.2	90.1	114.5	0.0	M	102.5
5/18/2021 6:00	1.6	190.0	-13.5	90.2	161.7	1.0	M	102.6
5/18/2021 7:00	1.6	181.8	-12.9	89.2	255.8	1.0	M	102.6
5/18/2021 8:00	1.6	189.5	-12.1	86.9	350.1	1.0	M	102.6
5/18/2021 9:00	1.9	183.2	-11.3	82.7	476.8	1.0	M	102.6
5/18/2021 10:00	1.9	174.2	-10.6	78.0	601.3	1.0	M	102.6
5/18/2021 11:00	1.7	163.8	-10.2	75.3	686.1	1.0	M	102.6
5/18/2021 12:00	2.1	142.7	-10.1	79.2	719.7	1.0	M	102.6
5/18/2021 13:00	1.8	146.0	-9.4	77.2	726.2	1.0	M	102.5
5/18/2021 14:00	2.1	133.0	-8.9	77.5	703.6	1.0	M	102.6
5/18/2021 15:00	3.1	137.3	-8.9	76.6	656.0	1.0	M	102.5
5/18/2021 16:00	3.6	144.0	-9.2	75.4	584.3	1.0	M	102.5
5/18/2021 17:00	3.2	136.7	-8.6	77.2	484.5	1.0	M	102.5
5/18/2021 18:00	2.1	144.1	-8.5	77.3	385.9	1.0	M	102.5

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/18/2021 19:00	1.7	243.8	-8.4	74.0	305.7	1.0	M	102.4
5/18/2021 20:00	1.7	273.4	-8.7	73.5	182.4	1.0	M	102.4
5/18/2021 21:00	1.3	299.8	-9.6	75.5	101.0	0.0	M	102.4
5/18/2021 22:00	0.6	36.1	-11.4	81.6	39.8	0.0	M	102.3
5/18/2021 23:00	0.3	42.7	-12.6	87.4	6.6	0.0	M	102.3
5/19/2021 0:00	0.4	169.2	-14.9	88.8	2.4	0.0	M	102.3
5/19/2021 1:00	0.1	197.5	-15.6	89.3	2.2	0.0	M	102.3
5/19/2021 2:00	0.2	123.5	-16.6	88.7	5.8	0.0	M	102.2
5/19/2021 3:00	0.1	247.1	-17.3	87.7	25.5	0.0	M	102.2
5/19/2021 4:00	C	C	-16.4	86.3	67.2	0.0	M	102.2
5/19/2021 5:00	0.8	257.5	-14.5	80.0	143.9	1.0	M	102.1
5/19/2021 6:00	3.5	280.1	-13.8	87.9	246.6	1.0	M	102.1
5/19/2021 7:00	4.8	268.4	-13.0	86.2	316.9	1.0	M	102.0
5/19/2021 8:00	5.3	268.7	-12.5	84.3	326.5	1.0	M	102.0
5/19/2021 9:00	7.1	269.6	-10.9	81.4	382.3	1.0	M	101.9
5/19/2021 10:00	7.5	268.7	-10.3	76.0	467.5	1.0	M	101.9
5/19/2021 11:00	8.2	267.2	-10.0	76.2	497.6	1.0	M	101.8
5/19/2021 12:00	9.6	264.9	-9.8	82.2	472.1	1.0	M	101.7
5/19/2021 13:00	9.1	266.3	-9.1	80.3	542.6	1.0	M	101.7
5/19/2021 14:00	9.6	266.0	-8.6	83.9	623.4	1.0	M	101.7
5/19/2021 15:00	10.1	270.1	-8.0	81.0	649.7	1.0	M	101.7
5/19/2021 16:00	10.8	270.6	-7.7	79.3	529.2	1.0	M	101.6
5/19/2021 17:00	10.4	268.5	-7.7	84.3	331.3	1.0	M	101.6
5/19/2021 18:00	9.8	270.3	-7.6	86.7	245.8	1.0	M	101.5
5/19/2021 19:00	9.5	268.8	-7.6	90.1	163.8	1.0	M	101.5
5/19/2021 20:00	8.5	275.2	-7.6	91.6	91.2	0.0	M	101.5
5/19/2021 21:00	7.9	277.4	-7.7	92.6	48.6	0.0	M	101.5
5/19/2021 22:00	6.4	278.0	-7.9	89.6	18.1	0.0	M	101.4
5/19/2021 23:00	6.2	273.1	-8.3	89.9	5.3	0.0	M	101.4
5/20/2021 0:00	6.3	278.0	-8.4	90.3	2.1	0.0	M	101.4
5/20/2021 1:00	6.2	280.0	-8.5	90.6	1.9	0.0	M	101.4
5/20/2021 2:00	5.9	284.2	-8.7	90.4	3.8	0.0	M	101.4
5/20/2021 3:00	6.2	280.5	-8.8	90.9	11.0	0.0	M	101.4
5/20/2021 4:00	5.9	288.6	-8.7	91.2	33.3	0.0	M	101.4
5/20/2021 5:00	5.6	289.8	-8.5	90.6	70.4	0.0	M	101.3
5/20/2021 6:00	6.0	290.8	-8.3	89.8	123.9	1.0	M	101.3
5/20/2021 7:00	7.0	283.5	-8.0	86.4	181.3	1.0	M	101.3
5/20/2021 8:00	7.9	282.2	-7.8	87.4	257.8	1.0	M	101.3
5/20/2021 9:00	8.1	280.9	-7.4	87.7	344.2	1.0	M	101.4
5/20/2021 10:00	8.5	281.8	-6.9	86.5	426.6	1.0	M	101.3
5/20/2021 11:00	9.1	281.5	-6.5	84.2	486.4	1.0	M	101.3
5/20/2021 12:00	10.0	281.8	-5.9	82.2	545.4	1.0	M	101.3
5/20/2021 13:00	11.5	283.6	-5.8	84.3	555.8	1.0	M	101.4

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/20/2021 14:00	11.9	282.0	-5.6	85.0	496.6	1.0	M	101.4
5/20/2021 15:00	11.6	282.2	-5.1	84.7	542.4	1.0	M	101.4
5/20/2021 16:00	10.9	283.4	-4.9	84.1	492.4	1.0	M	101.4
5/20/2021 17:00	10.5	284.8	-4.9	82.4	351.0	1.0	M	101.5
5/20/2021 18:00	10.0	285.7	-5.0	84.7	199.4	1.0	M	101.5
5/20/2021 19:00	9.7	283.3	-5.1	86.3	126.5	1.0	M	101.5
5/20/2021 20:00	8.1	287.1	-5.2	85.7	76.1	0.0	M	101.6
5/20/2021 21:00	7.4	286.0	-5.5	87.2	33.7	0.0	M	101.6
5/20/2021 22:00	8.8	282.7	-5.7	88.2	15.6	0.0	M	101.6
5/20/2021 23:00	8.2	280.4	-6.2	89.7	6.3	0.0	M	101.7
5/21/2021 0:00	8.0	280.9	-6.9	89.9	3.6	0.0	M	101.7
5/21/2021 1:00	7.1	276.1	-8.1	91.6	2.8	0.0	M	101.7
5/21/2021 2:00	7.1	271.1	-7.8	90.6	4.7	0.0	M	101.8
5/21/2021 3:00	6.1	289.8	-7.8	91.6	11.6	0.0	M	101.9
5/21/2021 4:00	5.5	304.7	-7.2	91.3	97.5	0.0	M	102.0
5/21/2021 5:00	6.5	335.4	-7.5	87.9	156.3	1.0	M	102.0
5/21/2021 6:00	3.4	330.0	-7.4	83.6	259.4	1.0	M	102.1
5/21/2021 7:00	3.0	312.8	-6.8	75.4	328.9	1.0	M	102.2
5/21/2021 8:00	3.1	293.2	-6.7	69.4	375.4	1.0	M	102.2
5/21/2021 9:00	2.3	271.6	-7.3	77.4	526.1	1.0	M	102.2
5/21/2021 10:00	3.2	275.7	-7.0	76.3	635.7	1.0	M	102.3
5/21/2021 11:00	3.6	254.5	-7.0	77.7	691.7	1.0	M	102.3
5/21/2021 12:00	2.6	262.7	-5.8	73.6	728.4	1.0	M	102.3
5/21/2021 13:00	3.6	265.2	-5.4	67.3	734.1	1.0	M	102.4
5/21/2021 14:00	3.8	266.9	-5.0	73.7	707.3	1.0	M	102.4
5/21/2021 15:00	3.7	267.9	-4.3	74.1	657.5	1.0	M	102.4
5/21/2021 16:00	3.6	268.3	-4.0	74.5	581.3	1.0	M	102.4
5/21/2021 17:00	3.2	268.9	-3.8	73.6	491.7	1.0	M	102.4
5/21/2021 18:00	3.0	264.2	-3.7	73.7	389.4	1.0	M	102.3
5/21/2021 19:00	3.6	263.7	-4.2	76.8	285.5	1.0	M	102.3
5/21/2021 20:00	2.4	259.3	-4.2	76.6	188.0	1.0	M	102.2
5/21/2021 21:00	0.7	220.6	-4.0	75.5	109.9	0.0	M	102.2
5/21/2021 22:00	0.7	124.9	-6.1	79.6	46.9	0.0	M	102.2
5/21/2021 23:00	0.9	88.2	-8.6	86.5	8.6	0.0	M	102.2
5/22/2021 0:00	1.2	90.9	-9.1	87.3	4.9	0.0	M	102.1
5/22/2021 1:00	1.4	121.8	-9.7	88.1	4.8	0.0	M	102.1
5/22/2021 2:00	3.1	142.8	-10.6	89.1	9.3	0.0	M	102.1
5/22/2021 3:00	1.8	111.1	-10.3	87.5	50.2	0.0	M	102.0
5/22/2021 4:00	2.4	109.9	-10.0	84.8	106.9	0.0	M	102.0
5/22/2021 5:00	1.6	96.1	-9.6	83.7	167.7	1.0	M	101.9
5/22/2021 6:00	2.2	144.4	-7.8	82.4	256.5	1.0	M	101.8
5/22/2021 7:00	1.1	132.6	-6.6	78.8	327.1	1.0	M	101.8
5/22/2021 8:00	1.5	101.3	-4.5	76.6	370.1	1.0	M	101.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/22/2021 9:00	3.7	120.7	-2.9	79.6	514.0	1.0	M	101.6
5/22/2021 10:00	3.5	141.9	-1.4	76.7	627.8	1.0	M	101.6
5/22/2021 11:00	4.4	165.2	0.1	71.9	682.5	1.0	M	101.5
5/22/2021 12:00	5.8	173.2	0.8	70.5	714.2	1.0	M	101.4
5/22/2021 13:00	3.7	169.9	2.2	68.8	717.7	1.0	M	101.4
5/22/2021 14:00	2.4	155.0	3.2	66.6	697.1	1.0	M	101.3
5/22/2021 15:00	2.0	119.3	2.9	70.1	649.3	1.0	M	101.3
5/22/2021 16:00	1.9	97.8	3.1	70.3	578.4	1.0	M	101.2
5/22/2021 17:00	1.7	93.9	3.3	71.2	488.7	1.0	M	101.2
5/22/2021 18:00	1.7	104.2	3.2	71.3	387.6	1.0	M	101.2
5/22/2021 19:00	3.6	80.2	2.2	77.3	284.7	1.0	M	101.1
5/22/2021 20:00	4.9	74.4	0.6	87.0	187.4	1.0	M	101.1
5/22/2021 21:00	5.5	73.5	-0.4	88.8	109.4	0.0	M	101.0
5/22/2021 22:00	5.8	67.2	-1.7	91.0	49.5	0.0	M	101.0
5/22/2021 23:00	5.3	68.7	-3.4	94.3	9.2	0.0	M	101.0
5/23/2021 0:00	5.7	66.1	-5.3	96.6	4.0	0.0	M	101.0
5/23/2021 1:00	4.9	66.3	-7.0	95.6	3.8	0.0	M	101.0
5/23/2021 2:00	4.7	69.4	-7.9	95.3	6.0	0.0	M	101.0
5/23/2021 3:00	5.8	71.6	-8.5	95.0	12.6	0.0	M	101.0
5/23/2021 4:00	6.1	74.7	-8.6	94.8	33.4	0.0	M	100.9
5/23/2021 5:00	6.2	75.2	-8.6	94.8	72.5	0.0	M	101.0
5/23/2021 6:00	5.9	70.5	-8.9	94.6	123.0	1.0	M	101.0
5/23/2021 7:00	7.3	71.3	-9.1	94.5	187.7	1.0	M	101.0
5/23/2021 8:00	7.9	69.0	-9.0	94.5	372.5	1.0	M	101.1
5/23/2021 9:00	8.2	66.5	-8.8	94.3	463.0	1.0	M	101.1
5/23/2021 10:00	7.4	59.9	-8.3	94.2	528.3	1.0	M	101.1
5/23/2021 11:00	7.7	50.1	-8.0	92.5	561.4	1.0	M	101.2
5/23/2021 12:00	7.3	50.1	-7.9	90.2	580.4	1.0	M	101.2
5/23/2021 13:00	6.8	50.4	-7.6	88.3	541.4	1.0	M	101.3
5/23/2021 14:00	6.5	52.9	-7.2	84.7	515.5	1.0	M	101.4
5/23/2021 15:00	5.9	36.3	-6.9	82.0	443.4	1.0	M	101.4
5/23/2021 16:00	5.8	23.6	-6.9	82.4	357.6	1.0	M	101.5
5/23/2021 17:00	5.4	25.9	-7.1	83.0	263.5	1.0	M	101.5
5/23/2021 18:00	5.5	24.5	-7.3	82.5	185.0	1.0	M	101.6
5/23/2021 19:00	5.3	2.2	-7.5	82.3	118.8	0.0	M	101.7
5/23/2021 20:00	4.9	359.8	-7.8	83.3	64.0	0.0	M	101.7
5/23/2021 21:00	5.2	354.2	-7.9	81.5	35.1	0.0	M	101.7
5/23/2021 22:00	4.1	2.9	-8.0	83.4	14.7	0.0	M	101.8
5/23/2021 23:00	3.8	4.3	-8.2	84.7	5.6	0.0	M	101.8
5/24/2021 0:00	4.3	353.6	-8.4	84.5	2.8	0.0	M	101.9
5/24/2021 1:00	3.5	342.2	-8.5	84.9	2.9	0.0	M	101.9
5/24/2021 2:00	3.7	346.2	-8.6	86.4	5.0	0.0	M	102.0
5/24/2021 3:00	4.3	355.1	-8.8	86.0	13.3	0.0	M	102.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/24/2021 4:00	4.3	335.8	-8.8	89.0	31.0	0.0	M	102.1
5/24/2021 5:00	4.4	335.3	-8.9	87.6	67.7	0.0	M	102.1
5/24/2021 6:00	4.7	331.1	-8.9	86.9	122.1	1.0	M	102.2
5/24/2021 7:00	4.9	327.0	-8.9	87.3	177.6	1.0	M	102.2
5/24/2021 8:00	4.8	326.2	-8.7	85.8	267.6	1.0	M	102.2
5/24/2021 9:00	4.5	317.3	-8.5	86.3	350.3	1.0	M	102.2
5/24/2021 10:00	4.4	315.3	-8.1	85.0	443.9	1.0	M	102.2
5/24/2021 11:00	5.6	292.3	-7.6	86.5	454.9	1.0	M	102.2
5/24/2021 12:00	6.8	285.9	-6.9	85.3	551.6	1.0	M	102.2
5/24/2021 13:00	8.4	284.5	-6.5	84.7	583.2	1.0	M	102.2
5/24/2021 14:00	8.6	282.3	-5.7	84.9	503.6	1.0	M	102.1
5/24/2021 15:00	8.4	284.8	-5.4	83.7	444.5	1.0	M	102.1
5/24/2021 16:00	7.7	295.4	-5.5	81.5	479.5	1.0	M	102.1
5/24/2021 17:00	6.5	298.5	-5.4	80.0	447.1	1.0	M	102.1
5/24/2021 18:00	7.0	317.6	-5.6	81.1	376.5	1.0	M	102.1
5/24/2021 19:00	5.6	321.7	-6.3	83.4	139.7	1.0	M	102.2
5/24/2021 20:00	5.8	323.1	-6.3	86.1	73.3	0.0	M	102.2
5/24/2021 21:00	5.0	332.8	-6.6	87.7	35.2	0.0	M	102.2
5/24/2021 22:00	4.3	332.9	-7.6	87.5	17.4	0.0	M	102.2
5/24/2021 23:00	3.6	328.4	-8.5	88.6	7.0	0.0	M	102.2
5/25/2021 0:00	2.7	326.9	-8.7	89.5	3.9	0.0	M	102.2
5/25/2021 1:00	3.4	324.7	-8.9	90.6	3.9	0.0	M	102.1
5/25/2021 2:00	3.6	313.2	-9.1	91.5	6.4	0.0	M	102.1
5/25/2021 3:00	4.4	295.9	-9.5	93.6	14.9	0.0	M	102.1
5/25/2021 4:00	4.3	296.2	-9.5	94.4	36.0	0.0	M	102.1
5/25/2021 5:00	4.9	289.1	-9.5	94.3	68.8	0.0	M	102.1
5/25/2021 6:00	6.2	294.8	-8.7	94.5	127.4	1.0	M	102.0
5/25/2021 7:00	6.0	284.6	-8.6	94.2	184.6	1.0	M	102.0
5/25/2021 8:00	7.0	284.5	-8.3	94.2	230.8	1.0	M	102.0
5/25/2021 9:00	6.7	278.2	-7.6	92.8	532.1	1.0	M	102.0
5/25/2021 10:00	6.7	273.8	-6.7	92.1	603.4	1.0	M	102.0
5/25/2021 11:00	7.9	269.5	-5.9	91.0	698.7	1.0	M	101.9
5/25/2021 12:00	9.6	274.7	-4.8	88.0	725.7	1.0	M	101.9
5/25/2021 13:00	9.0	271.3	-4.1	86.0	734.0	1.0	M	101.9
5/25/2021 14:00	8.9	275.0	-3.8	85.4	709.4	1.0	M	101.8
5/25/2021 15:00	9.1	273.7	-3.0	85.3	658.3	1.0	M	101.8
5/25/2021 16:00	8.8	276.4	-2.3	82.6	576.4	1.0	M	101.8
5/25/2021 17:00	8.0	271.8	-2.2	85.2	428.3	1.0	M	101.8
5/25/2021 18:00	8.1	270.9	-2.1	83.7	400.1	1.0	M	101.8
5/25/2021 19:00	8.6	272.2	-2.5	87.4	300.1	1.0	M	101.8
5/25/2021 20:00	8.2	263.5	-2.6	85.8	172.5	1.0	M	101.7
5/25/2021 21:00	5.8	276.7	-2.8	83.6	107.3	0.0	M	101.7
5/25/2021 22:00	6.0	281.4	-3.4	84.1	51.9	0.0	M	101.7

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/25/2021 23:00	7.3	268.3	-3.4	78.5	12.3	0.0	M	101.7
5/26/2021 0:00	8.3	271.4	-3.7	76.8	5.3	0.0	M	101.7
5/26/2021 1:00	6.8	279.7	-4.8	80.1	5.6	0.0	M	101.7
5/26/2021 2:00	4.3	283.0	-4.8	78.7	13.3	0.0	M	101.7
5/26/2021 3:00	0.7	226.8	-5.0	76.2	43.1	0.0	M	101.7
5/26/2021 4:00	0.7	270.7	-6.3	78.0	87.7	0.0	M	101.7
5/26/2021 5:00	0.6	144.9	-6.9	78.8	137.1	1.0	M	101.7
5/26/2021 6:00	0.6	134.1	-6.5	75.4	237.4	1.0	M	101.7
5/26/2021 7:00	0.7	131.0	-5.1	72.7	338.4	1.0	M	101.7
5/26/2021 8:00	1.1	133.9	-3.7	70.8	372.3	1.0	M	101.6
5/26/2021 9:00	1.2	134.9	-1.7	71.0	526.2	1.0	M	101.6
5/26/2021 10:00	1.3	128.3	-0.2	71.8	647.5	1.0	M	101.6
5/26/2021 11:00	1.3	149.3	1.9	68.7	698.2	1.0	M	101.5
5/26/2021 12:00	1.3	142.8	3.0	58.8	741.7	1.0	M	101.5
5/26/2021 13:00	1.1	144.0	3.5	54.2	734.0	1.0	M	101.5
5/26/2021 14:00	1.4	129.0	3.9	57.2	707.5	1.0	M	101.5
5/26/2021 15:00	1.4	137.1	4.3	62.1	668.7	1.0	M	101.5
5/26/2021 16:00	1.8	128.3	4.1	64.5	600.4	1.0	M	101.4
5/26/2021 17:00	3.0	143.5	3.4	70.5	506.8	1.0	M	101.4
5/26/2021 18:00	3.5	145.9	2.8	74.5	403.0	1.0	M	101.3
5/26/2021 19:00	3.5	143.4	2.0	80.1	298.0	1.0	M	101.3
5/26/2021 20:00	2.4	126.1	1.9	81.2	201.8	1.0	M	101.2
5/26/2021 21:00	1.4	105.0	1.4	81.3	121.7	1.0	M	101.2
5/26/2021 22:00	1.4	104.9	0.8	81.4	53.8	0.0	M	101.2
5/26/2021 23:00	1.1	93.2	-0.2	83.6	11.3	0.0	M	101.2
5/27/2021 0:00	1.0	89.2	-0.9	85.0	6.2	0.0	M	101.1
5/27/2021 1:00	1.1	89.7	-1.5	85.7	5.3	0.0	M	101.1
5/27/2021 2:00	1.5	113.9	-1.9	86.3	10.1	0.0	M	101.1
5/27/2021 3:00	1.3	135.7	-1.6	86.7	22.1	0.0	M	101.0
5/27/2021 4:00	1.5	106.3	-1.6	85.8	58.9	0.0	M	101.0
5/27/2021 5:00	1.6	99.3	-1.3	84.5	113.2	0.0	M	100.9
5/27/2021 6:00	2.9	121.3	-0.4	84.2	180.6	1.0	M	100.9
5/27/2021 7:00	3.9	116.8	0.1	81.3	230.8	1.0	M	100.8
5/27/2021 8:00	4.5	120.8	0.4	80.2	306.1	1.0	M	100.7
5/27/2021 9:00	4.1	128.5	1.4	76.3	492.8	1.0	M	100.7
5/27/2021 10:00	4.5	126.8	1.8	78.1	573.5	1.0	M	100.6
5/27/2021 11:00	5.6	127.4	2.1	77.3	661.5	1.0	M	100.6
5/27/2021 12:00	6.4	123.2	2.5	76.8	762.7	1.0	M	100.5
5/27/2021 13:00	5.8	117.1	2.6	76.8	679.7	1.0	M	100.5
5/27/2021 14:00	7.6	118.5	2.5	77.5	636.1	1.0	M	100.4
5/27/2021 15:00	7.1	113.8	2.6	78.3	614.7	1.0	M	100.4
5/27/2021 16:00	6.6	106.7	2.8	78.9	534.7	1.0	M	100.4
5/27/2021 17:00	6.5	104.8	2.9	78.7	435.4	1.0	M	100.3

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/27/2021 18:00	6.7	112.8	2.7	80.9	280.0	1.0	M	100.3
5/27/2021 19:00	5.1	91.5	2.2	81.4	158.5	1.0	M	100.3
5/27/2021 20:00	6.2	87.1	1.9	84.2	116.6	0.0	M	100.2
5/27/2021 21:00	5.4	85.2	1.3	87.3	45.5	0.0	M	100.2
5/27/2021 22:00	5.8	75.4	1.2	87.1	22.2	0.0	M	100.2
5/27/2021 23:00	5.6	66.7	0.8	91.3	5.2	0.0	M	100.1
5/28/2021 0:00	7.3	47.9	0.4	96.2	1.7	0.0	M	100.1
5/28/2021 1:00	7.9	49.9	0.2	97.8	1.8	0.0	M	100.0
5/28/2021 2:00	8.4	49.5	0.0	98.7	4.0	0.0	M	99.8
5/28/2021 3:00	8.7	51.8	0.1	99.5	9.6	0.0	M	100.0
5/28/2021 4:00	8.7	53.3	0.2	99.6	13.8	0.0	M	100.0
5/28/2021 5:00	7.7	47.0	0.2	99.7	81.5	0.0	M	99.9
5/28/2021 6:00	7.3	44.0	0.3	99.6	106.4	0.0	M	100.0
5/28/2021 7:00	7.8	51.2	0.4	99.3	120.2	1.0	M	100.0
5/28/2021 8:00	7.8	51.6	0.4	98.6	112.8	0.0	M	100.0
5/28/2021 9:00	8.4	48.0	0.4	97.9	140.0	1.0	M	100.0
5/28/2021 10:00	10.0	49.4	-0.2	96.7	258.7	1.0	M	100.1
5/28/2021 11:00	9.7	49.8	-0.2	96.0	245.1	1.0	M	100.2
5/28/2021 12:00	9.2	48.4	-0.5	95.6	222.8	1.0	M	100.2
5/28/2021 13:00	9.4	53.8	-0.8	95.3	218.8	1.0	M	100.3
5/28/2021 14:00	8.5	48.2	-0.9	95.5	204.6	1.0	M	100.4
5/28/2021 15:00	7.5	43.4	-1.2	95.1	187.6	1.0	M	100.5
5/28/2021 16:00	8.4	39.5	-1.1	93.5	256.8	1.0	M	100.5
5/28/2021 17:00	7.1	31.4	-1.1	93.1	209.7	1.0	M	100.6
5/28/2021 18:00	6.4	34.4	-1.3	92.2	162.0	1.0	M	100.7
5/28/2021 19:00	7.4	41.6	-1.7	92.0	139.6	1.0	M	100.8
5/28/2021 20:00	4.9	28.9	-2.1	92.0	86.8	0.0	M	100.8
5/28/2021 21:00	5.2	22.9	-2.3	92.3	96.3	0.0	M	100.9
5/28/2021 22:00	5.7	27.8	-3.3	93.6	30.9	0.0	M	100.9
5/28/2021 23:00	5.3	24.4	-3.6	94.5	13.6	0.0	M	101.0
5/29/2021 0:00	4.1	29.0	-4.3	94.8	5.0	0.0	M	101.0
5/29/2021 1:00	4.0	3.9	-4.8	95.8	5.0	0.0	M	101.0
5/29/2021 2:00	3.7	13.5	-5.9	96.9	8.5	0.0	M	101.0
5/29/2021 3:00	2.7	11.9	-6.2	96.5	20.2	0.0	M	101.0
5/29/2021 4:00	2.6	334.4	-6.4	96.2	50.4	0.0	M	101.1
5/29/2021 5:00	2.4	315.6	-6.4	95.8	109.2	0.0	M	101.1
5/29/2021 6:00	3.4	321.4	-5.9	93.6	241.2	1.0	M	101.1
5/29/2021 7:00	3.0	328.7	-5.7	91.8	329.9	1.0	M	101.0
5/29/2021 8:00	3.4	282.8	-5.6	90.9	319.0	1.0	M	101.1
5/29/2021 9:00	3.1	279.1	-5.5	93.1	382.6	1.0	M	101.0
5/29/2021 10:00	2.6	271.9	-4.9	92.3	452.6	1.0	M	101.0
5/29/2021 11:00	2.1	260.5	-3.9	90.9	556.2	1.0	M	101.0
5/29/2021 12:00	1.2	74.7	-2.2	81.5	686.6	1.0	M	101.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/29/2021 13:00	1.2	94.4	-1.8	78.2	762.2	1.0	M	101.0
5/29/2021 14:00	1.3	103.1	-1.6	78.1	545.6	1.0	M	101.0
5/29/2021 15:00	1.4	85.5	-1.2	77.8	465.5	1.0	M	100.9
5/29/2021 16:00	3.2	96.1	-1.4	79.4	443.9	1.0	M	100.9
5/29/2021 17:00	2.8	112.7	-1.3	80.2	301.2	1.0	M	100.9
5/29/2021 18:00	4.8	85.6	-2.3	84.4	231.9	1.0	M	100.8
5/29/2021 19:00	5.1	87.3	-2.7	86.7	137.4	1.0	M	100.8
5/29/2021 20:00	5.2	94.0	-2.8	88.3	80.4	0.0	M	100.8
5/29/2021 21:00	5.5	110.5	-2.6	92.5	34.4	0.0	M	100.7
5/29/2021 22:00	5.8	90.3	-3.4	92.6	31.2	0.0	M	100.7
5/29/2021 23:00	6.1	86.9	-3.6	93.1	19.3	0.0	M	100.6
5/30/2021 0:00	5.0	85.4	-3.7	92.7	3.9	0.0	M	100.6
5/30/2021 1:00	4.5	77.8	-3.9	93.5	3.1	0.0	M	100.6
5/30/2021 2:00	4.9	50.1	-4.2	93.9	6.2	0.0	M	100.6
5/30/2021 3:00	5.0	33.1	-4.7	94.6	34.5	0.0	M	100.6
5/30/2021 4:00	5.6	37.2	-4.9	93.2	55.6	0.0	M	100.7
5/30/2021 5:00	3.4	39.7	-4.9	92.8	81.7	0.0	M	100.7
5/30/2021 6:00	2.3	44.5	-4.4	90.6	142.4	1.0	M	100.7
5/30/2021 7:00	1.4	30.8	-3.6	86.7	239.0	1.0	M	100.7
5/30/2021 8:00	1.8	324.3	-2.8	84.1	255.4	1.0	M	100.8
5/30/2021 9:00	3.7	314.4	-3.2	85.9	340.2	1.0	M	100.8
5/30/2021 10:00	5.9	290.1	-3.1	86.9	472.7	1.0	M	100.8
5/30/2021 11:00	6.2	303.3	-2.3	84.5	514.5	1.0	M	100.9
5/30/2021 12:00	5.9	279.5	-2.4	88.0	430.5	1.0	M	100.9
5/30/2021 13:00	4.9	270.6	-2.0	89.5	469.3	1.0	M	100.9
5/30/2021 14:00	6.5	268.6	-1.6	89.3	448.6	1.0	M	100.9
5/30/2021 15:00	7.9	269.9	-1.1	90.1	436.2	1.0	M	100.9
5/30/2021 16:00	8.3	268.4	-0.7	88.9	399.1	1.0	M	101.0
5/30/2021 17:00	7.2	268.2	-0.5	89.5	287.4	1.0	M	101.0
5/30/2021 18:00	6.4	267.3	-0.2	91.3	174.8	1.0	M	101.0
5/30/2021 19:00	8.0	266.1	0.0	92.3	103.2	0.0	M	101.0
5/30/2021 20:00	8.3	269.0	0.0	91.3	66.1	0.0	M	101.0
5/30/2021 21:00	8.6	268.4	-0.3	90.9	40.5	0.0	M	101.1
5/30/2021 22:00	7.6	277.7	-0.7	89.1	18.6	0.0	M	101.1
5/30/2021 23:00	7.0	275.6	-0.7	83.5	6.9	0.0	M	101.1
5/31/2021 0:00	6.6	283.5	-0.8	84.2	4.3	0.0	M	101.1
5/31/2021 1:00	7.4	268.4	-1.0	88.4	3.9	0.0	M	101.1
5/31/2021 2:00	6.6	267.2	-0.9	85.8	5.8	0.0	M	101.1
5/31/2021 3:00	4.7	279.1	-1.2	88.3	12.9	0.0	M	101.1
5/31/2021 4:00	3.0	270.1	-1.1	86.7	51.9	0.0	M	101.1
5/31/2021 5:00	2.6	227.2	-0.3	80.4	89.8	0.0	M	101.1
5/31/2021 6:00	3.3	207.4	0.5	75.4	161.3	1.0	M	101.0
5/31/2021 7:00	4.3	193.4	1.3	73.9	259.0	1.0	M	101.0

Appendix D - 1-hr Meteorology Data, Doris Station

Date	Average Wind Speed	Average Wind Direction	Average Air Temperature	Average Relative Humidity	Average Solar Radiation	Bright Sunshine Hours	Precip (TBRG)	Station Pressure
mm/dd/yyyy hh:hh	(m/s)	(deg)	(°C)	(%)	(W/m ²)	(hours)	(mm)	(kPa)
5/31/2021 8:00	4.3	189.2	1.7	74.0	303.5	1.0	M	101.0
5/31/2021 9:00	4.6	189.6	2.1	73.2	378.1	1.0	M	101.0
5/31/2021 10:00	3.7	175.1	3.1	69.9	495.0	1.0	M	100.9
5/31/2021 11:00	4.7	150.9	3.0	74.6	618.4	1.0	M	100.9
5/31/2021 12:00	5.2	172.8	4.6	67.6	696.2	1.0	M	100.8
5/31/2021 13:00	5.8	194.2	5.8	58.9	680.7	1.0	M	100.8
5/31/2021 14:00	5.9	180.4	5.6	58.6	695.3	1.0	M	100.8
5/31/2021 15:00	6.2	168.6	4.9	65.0	607.5	1.0	M	100.7
5/31/2021 16:00	6.7	157.6	4.0	73.4	596.5	1.0	M	100.6
5/31/2021 17:00	6.4	156.2	3.7	75.9	478.4	1.0	M	100.6
5/31/2021 18:00	6.5	151.5	2.6	83.1	348.9	1.0	M	100.5
5/31/2021 19:00	6.3	158.8	3.1	81.5	299.6	1.0	M	100.5
5/31/2021 20:00	5.6	164.5	3.0	82.4	142.5	1.0	M	100.4
5/31/2021 21:00	6.2	167.0	2.4	85.2	68.2	0.0	M	100.4
5/31/2021 22:00	5.0	176.1	2.7	84.2	26.9	0.0	M	100.3
5/31/2021 23:00	6.7	202.0	2.9	86.0	8.3	0.0	M	100.2

This page intentionally left blank