

Figure 16 WP 009A Launch Ramp Parking Daily Dust Average (mg/m³) 12/14-12/20

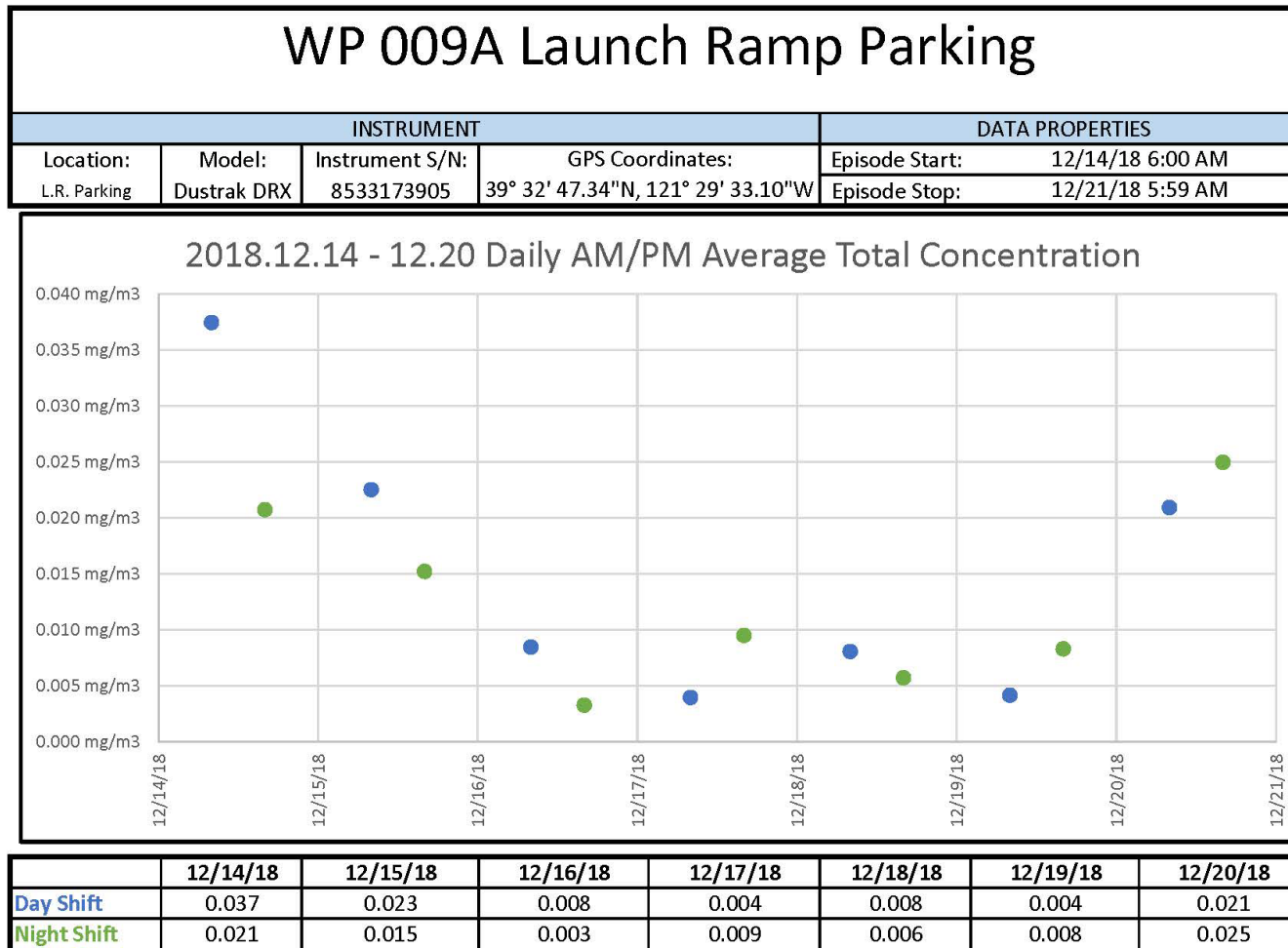


Figure 17 WP 009A Launch Ramp Parking Daily Dust Average (mg/m³) 12/21

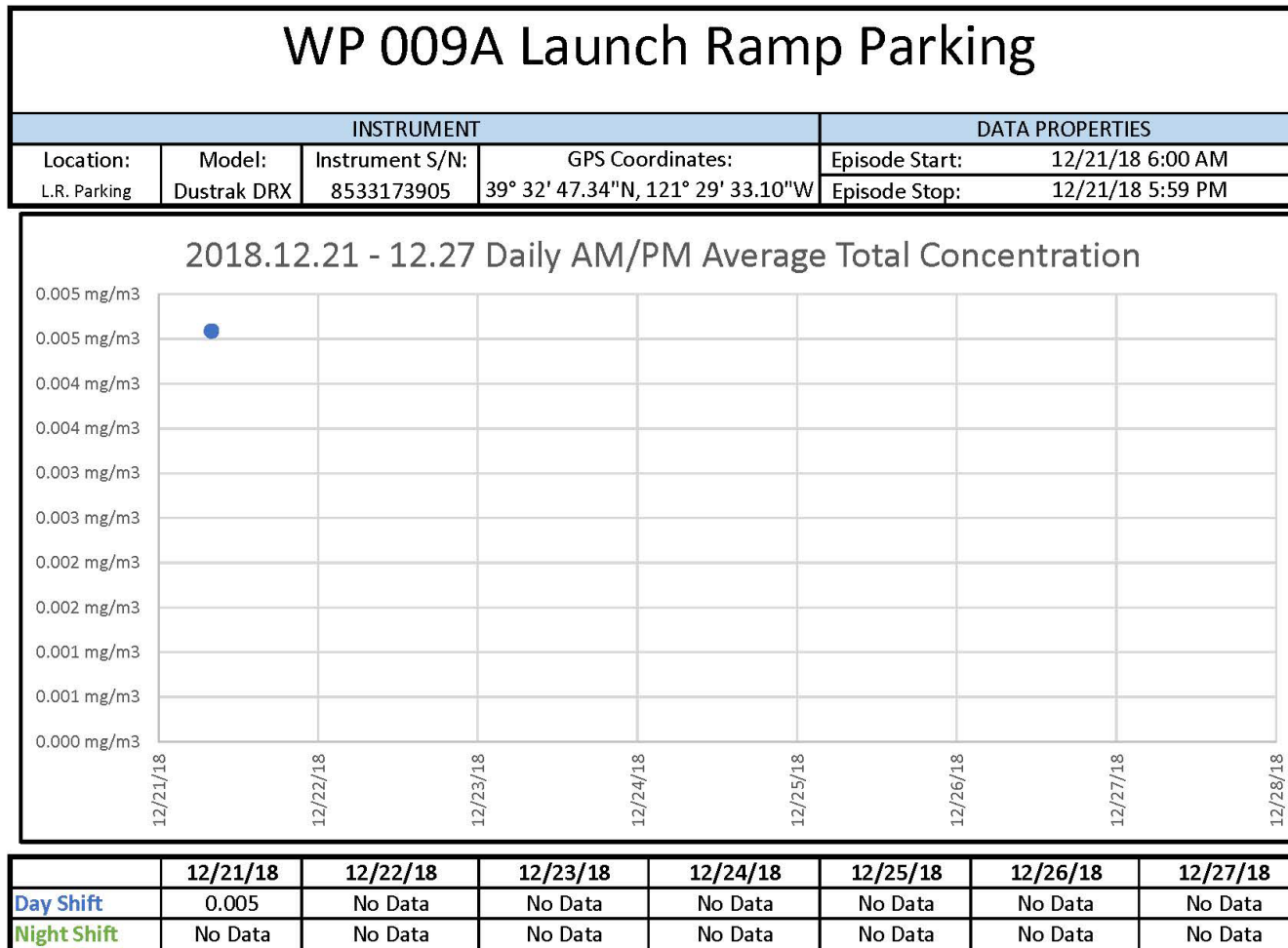


Figure 18 WP 081A Launch Ramp Turnaround Daily Dust Average (mg/m³) 12/14-12/20

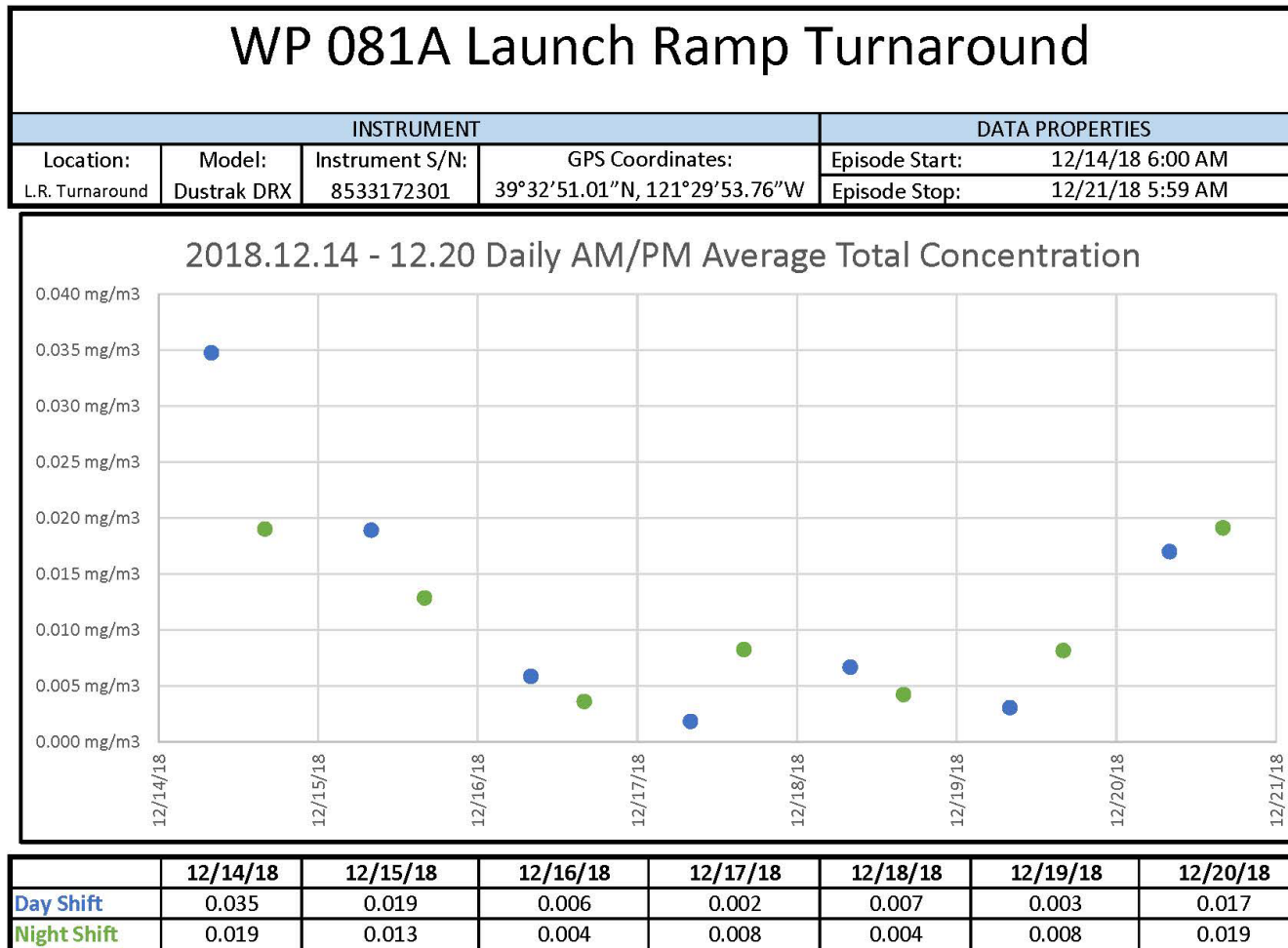


Figure 19 WP 081A Launch Ramp Turnaround Daily Dust Average (mg/m³) 12/21

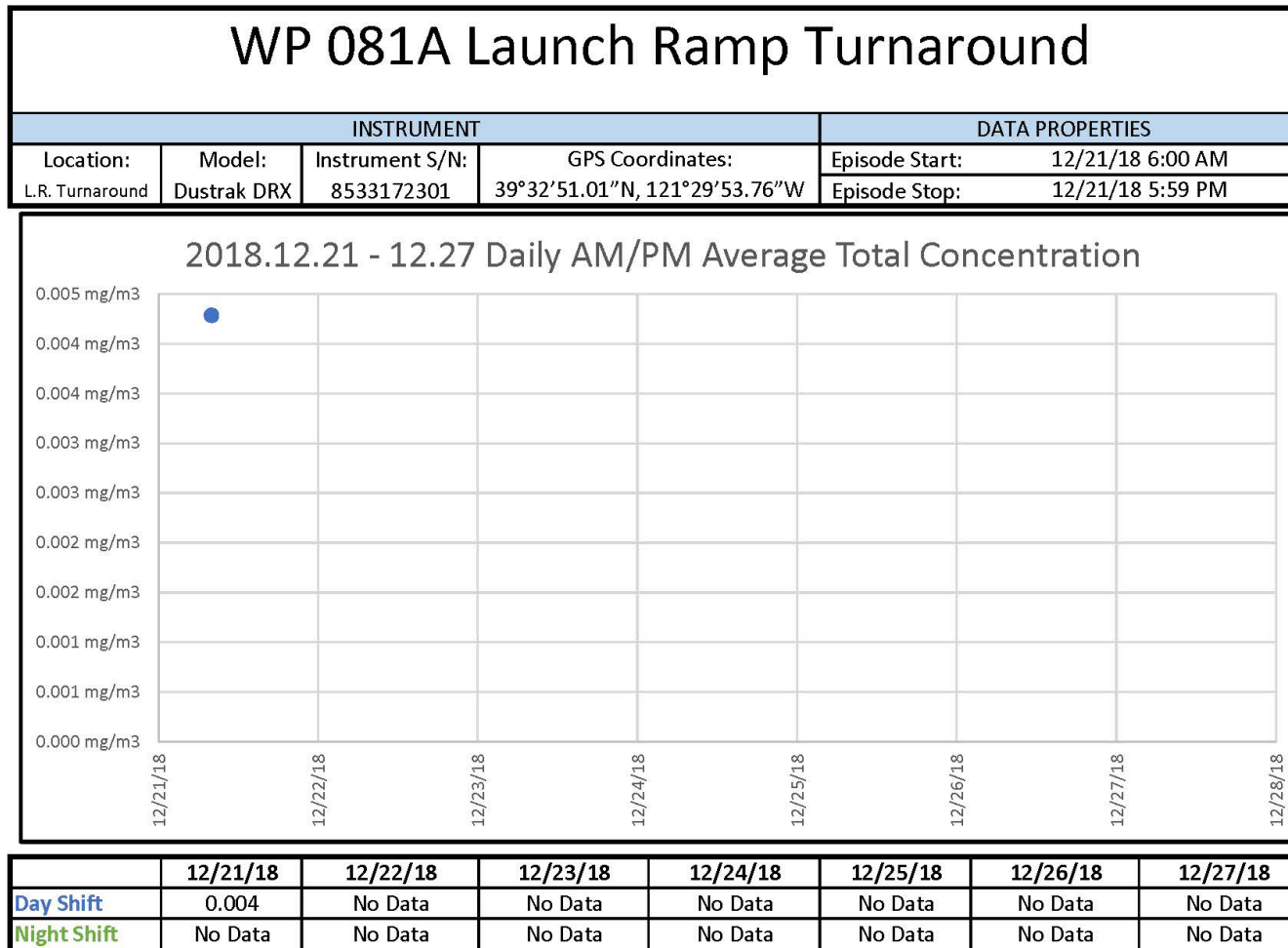


Figure 20 WP 019A East Diversion Dam Daily Dust Average (mg/m³) 12/14-12/20

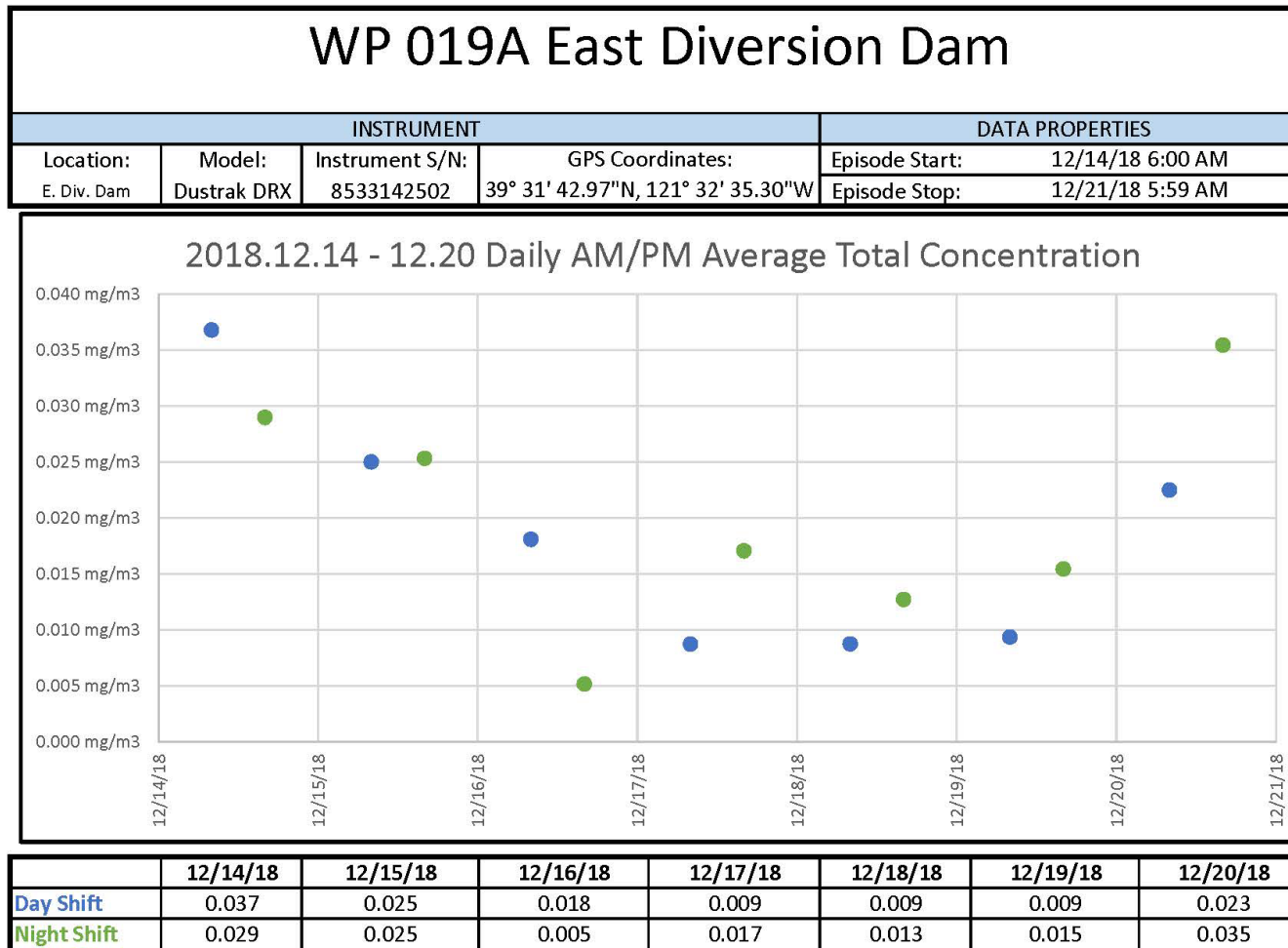


Figure 21 WP 019A East Diversion Dam Daily Dust Average (mg/m³) 12/21

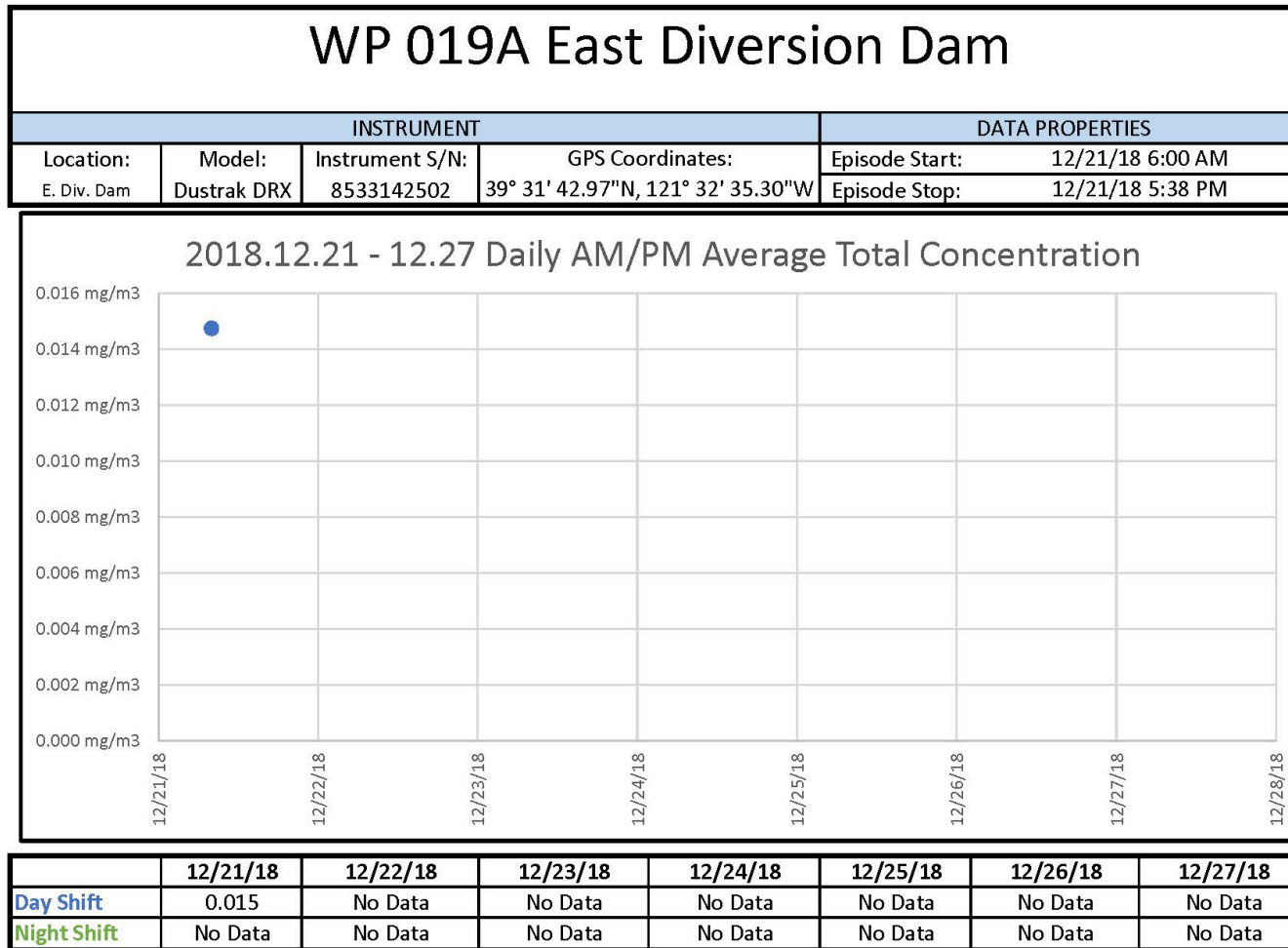


Figure 22 WP 020A S.E. Canal Daily Dust Average (mg/m³) 12/14-12/20

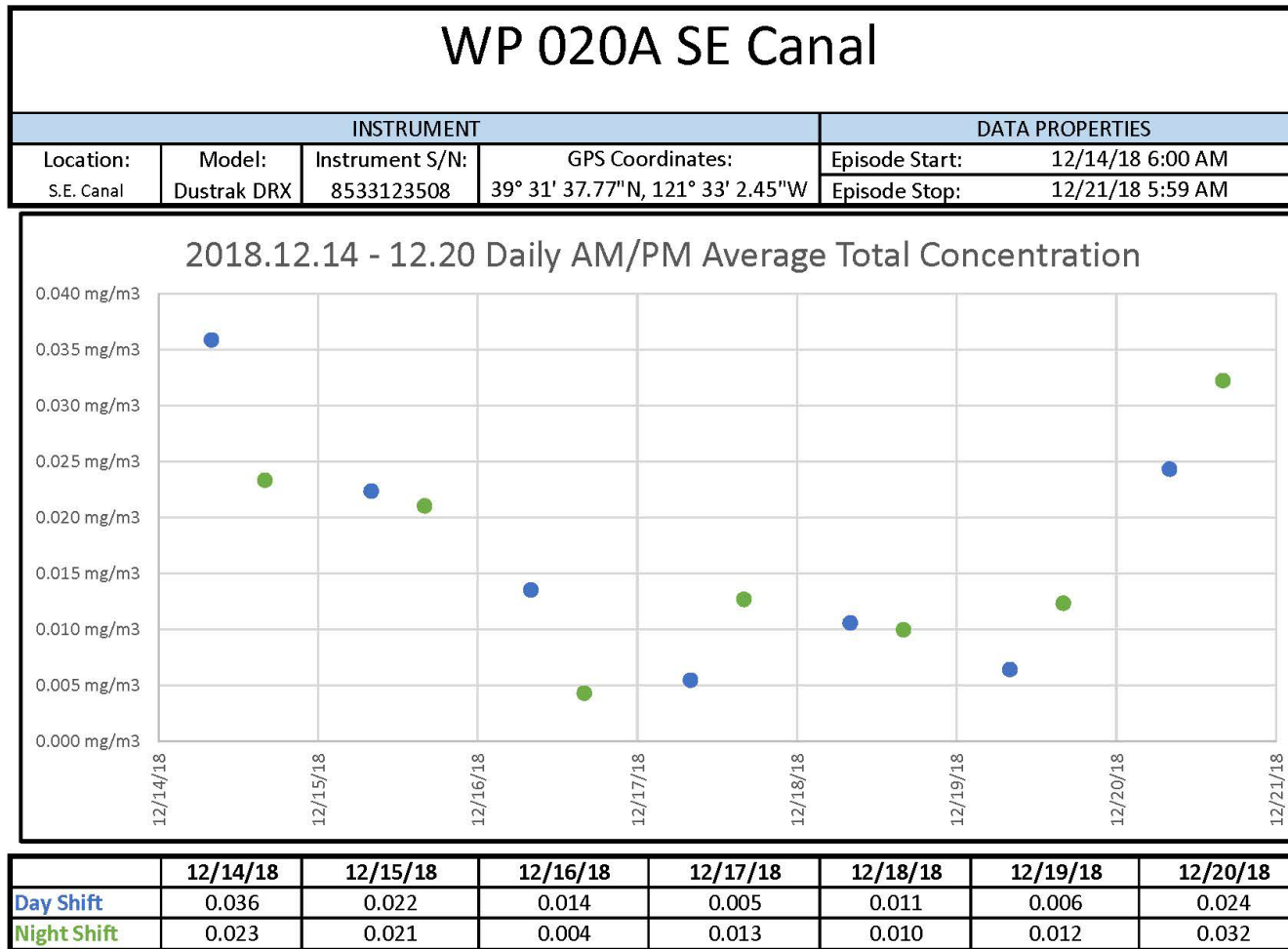


Figure 23 WP 020A S.E. Canal Daily Dust Average (mg/m³) 12/21

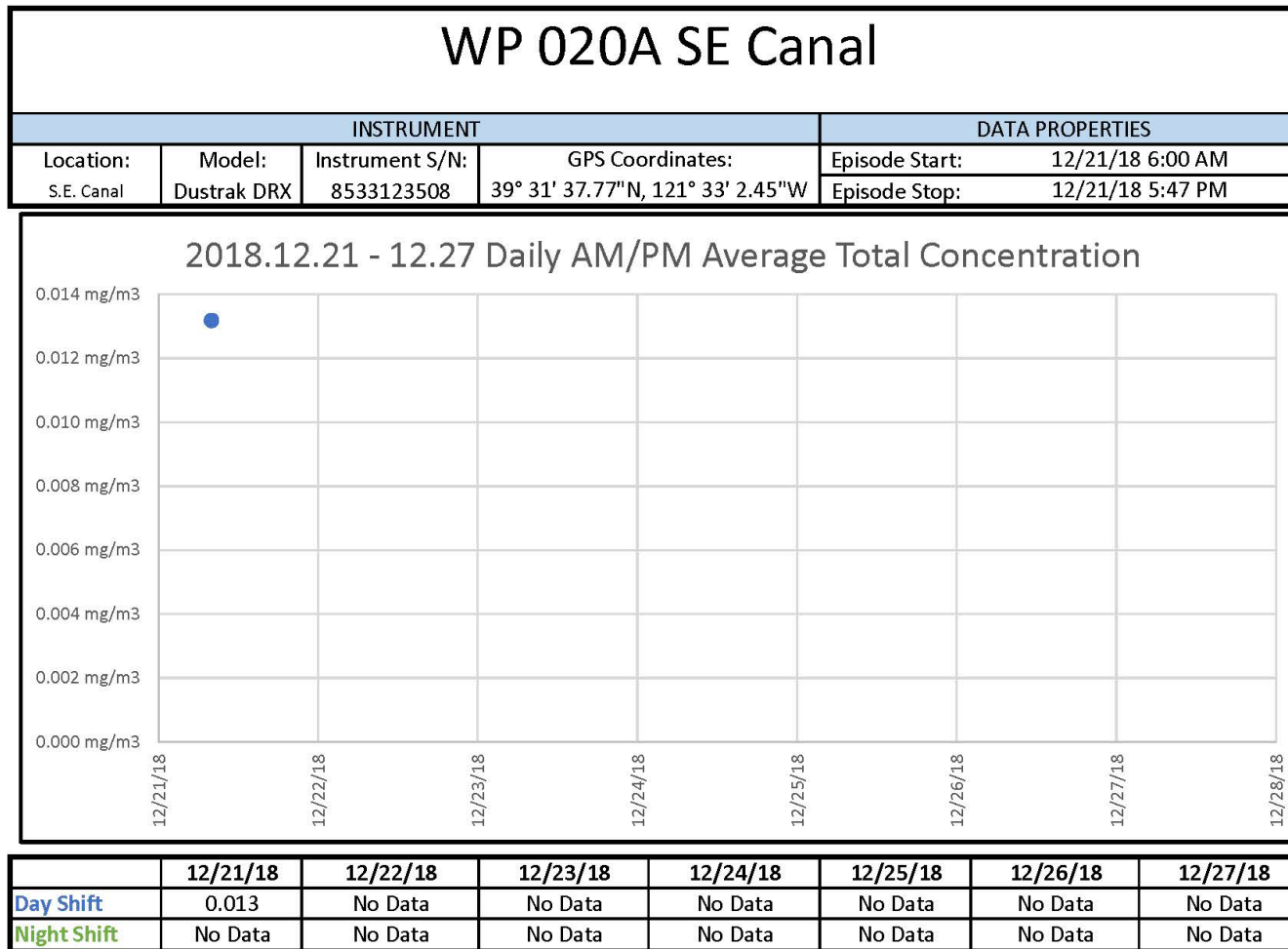


Figure 24 WP 082A Burma Road 02 Daily Dust Average (mg/m³) 12/14-12/20

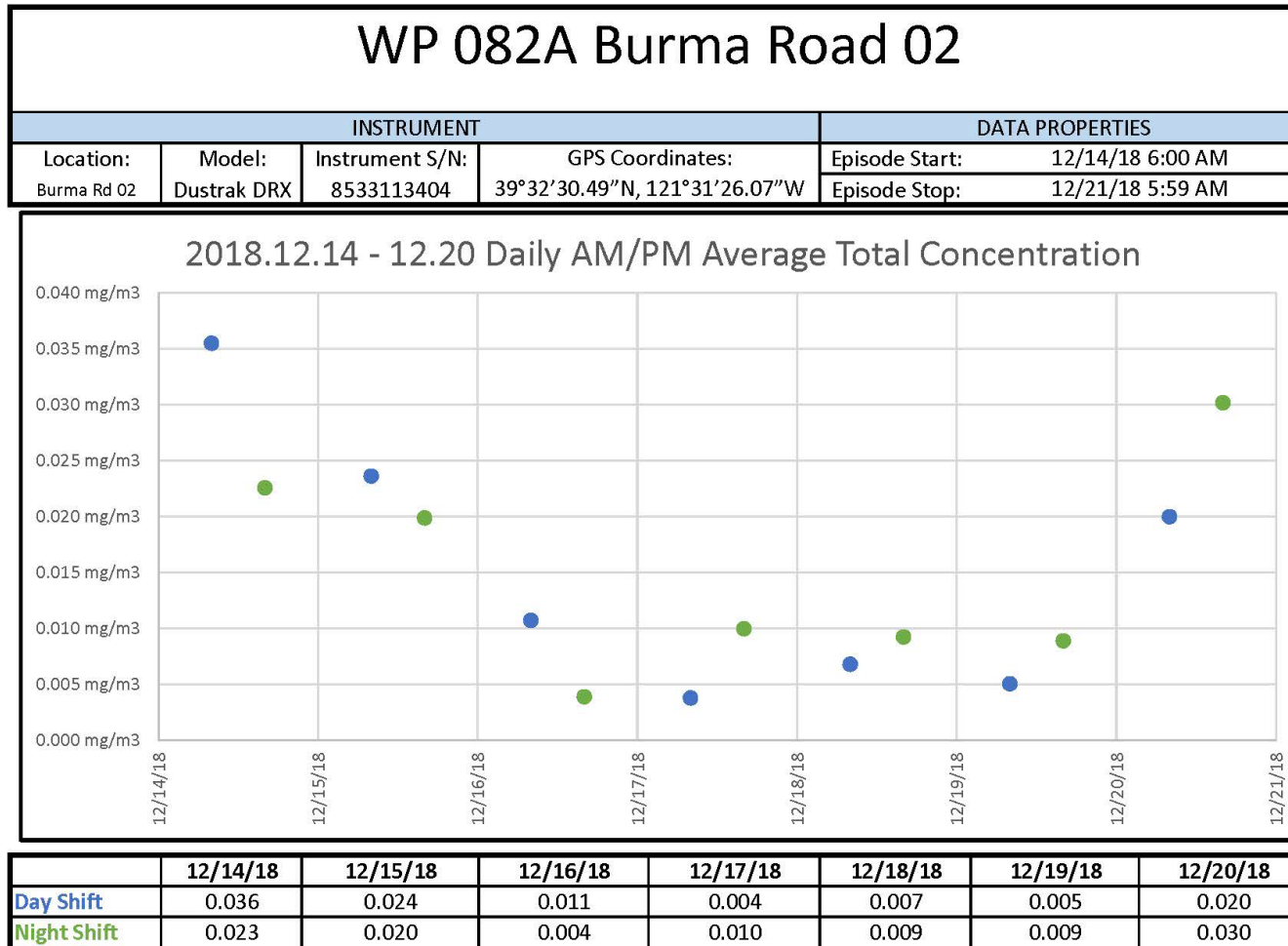


Figure 25 WP 082A Burma Road 02 Daily Dust Average (mg/m³) 12/21

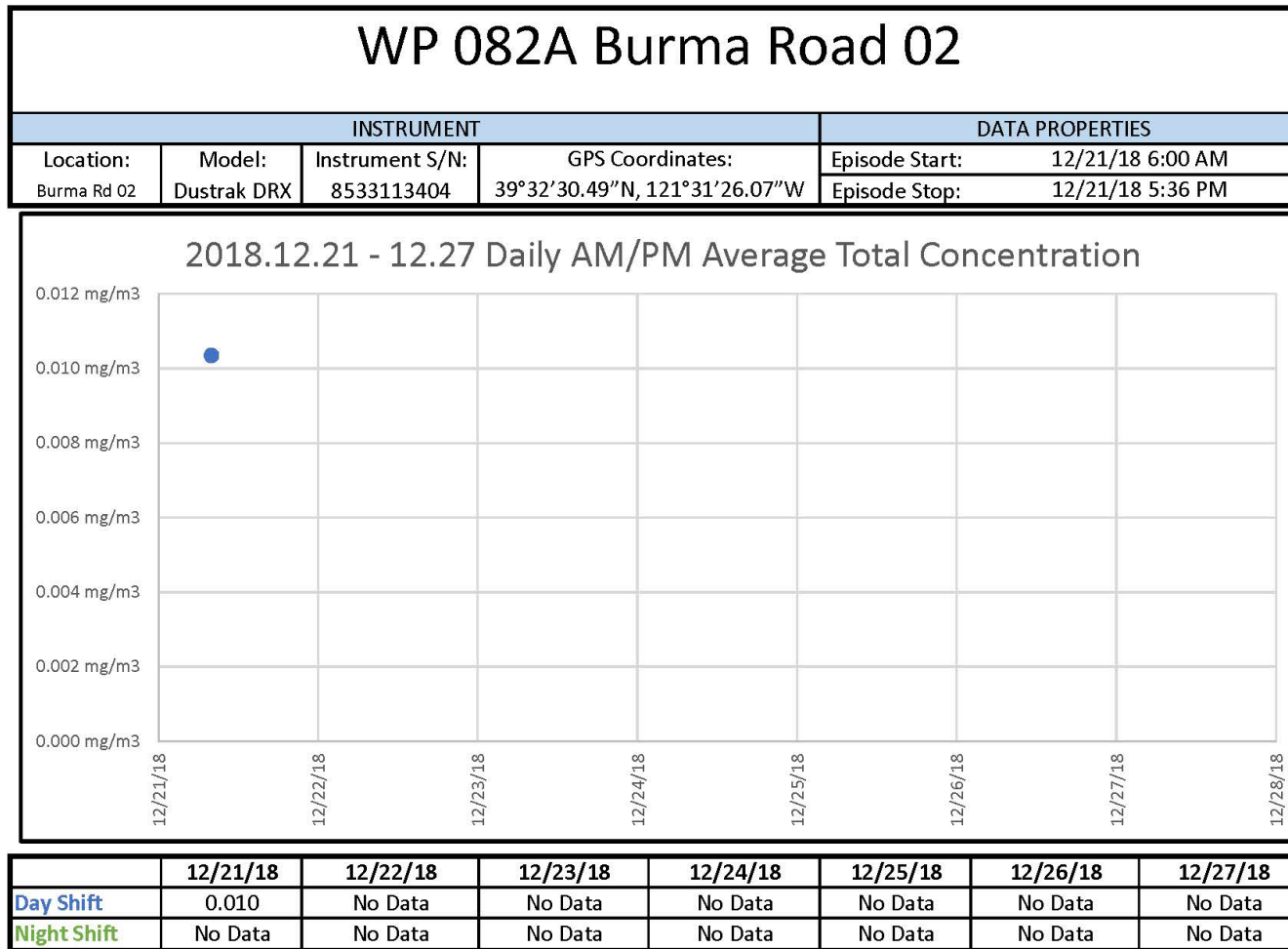


Figure 26 WP 037A Burma Road 03 Daily Dust Average (mg/m³) 12/14-12/20

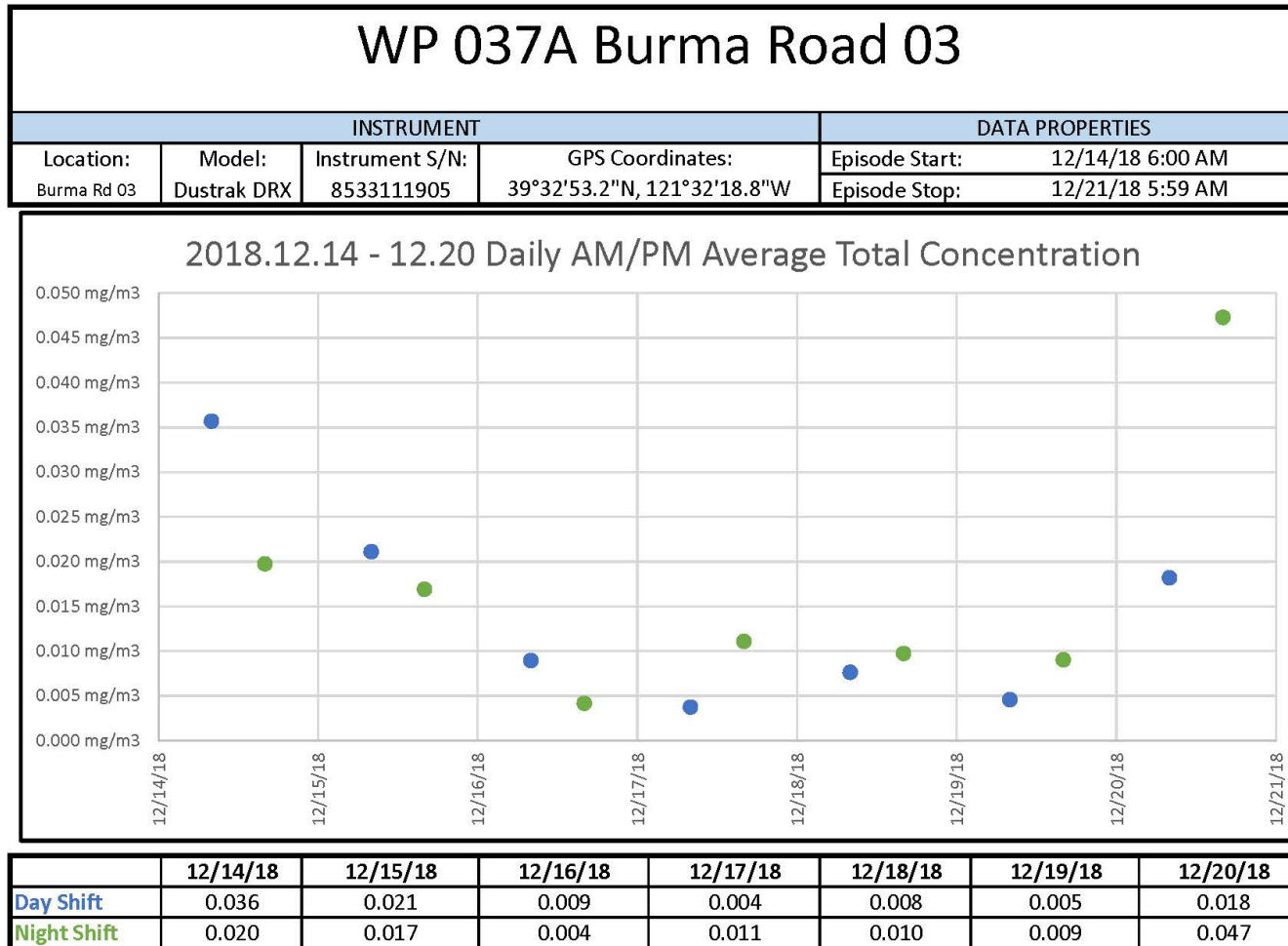


Figure 27 WP 037A Burma Road 03 Daily Dust Average (mg/m³) 12/21

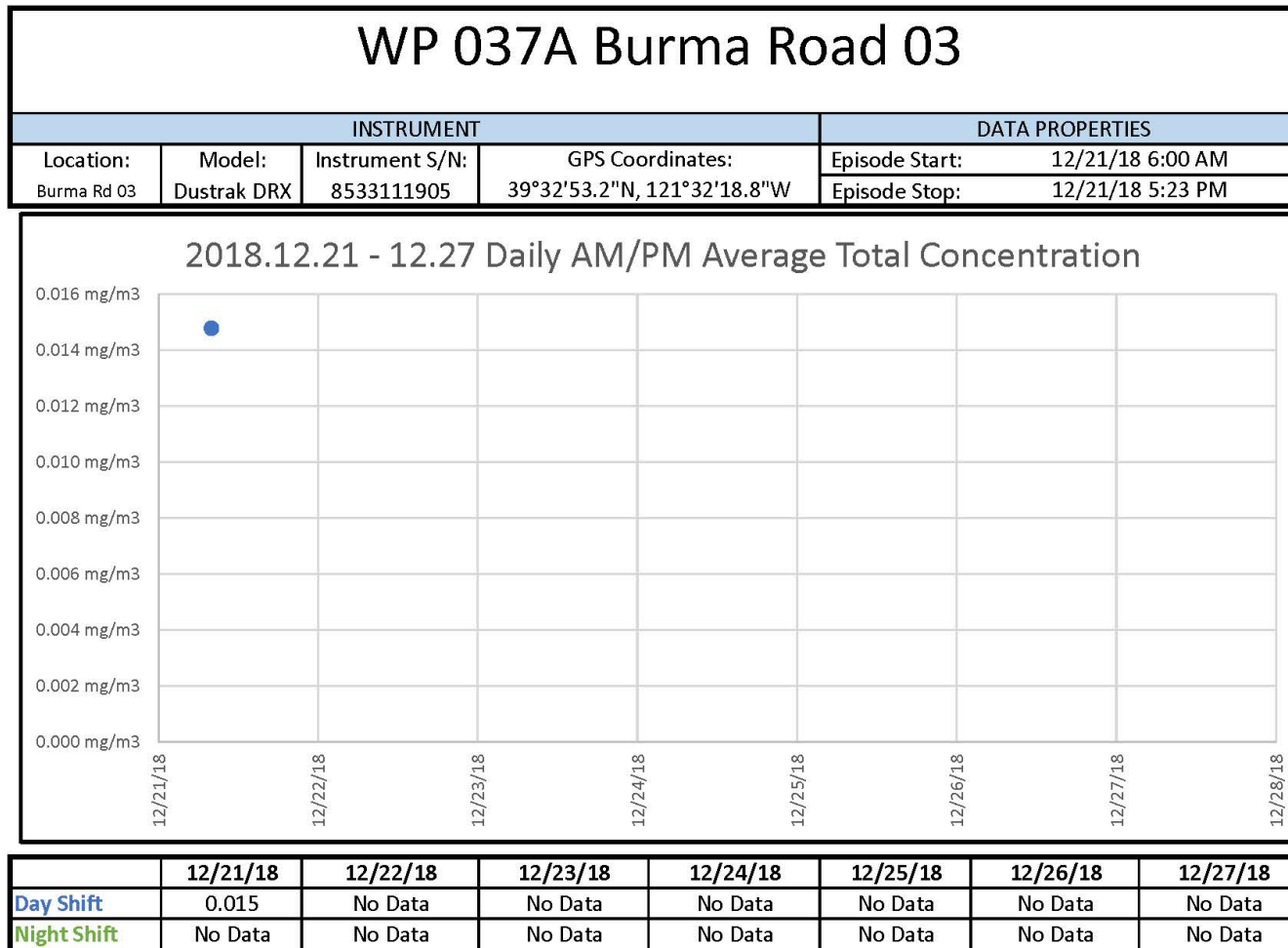


Figure 28 WP 083A Dan Beebe Trail Daily Dust Average (mg/m³) 12/14-12/20

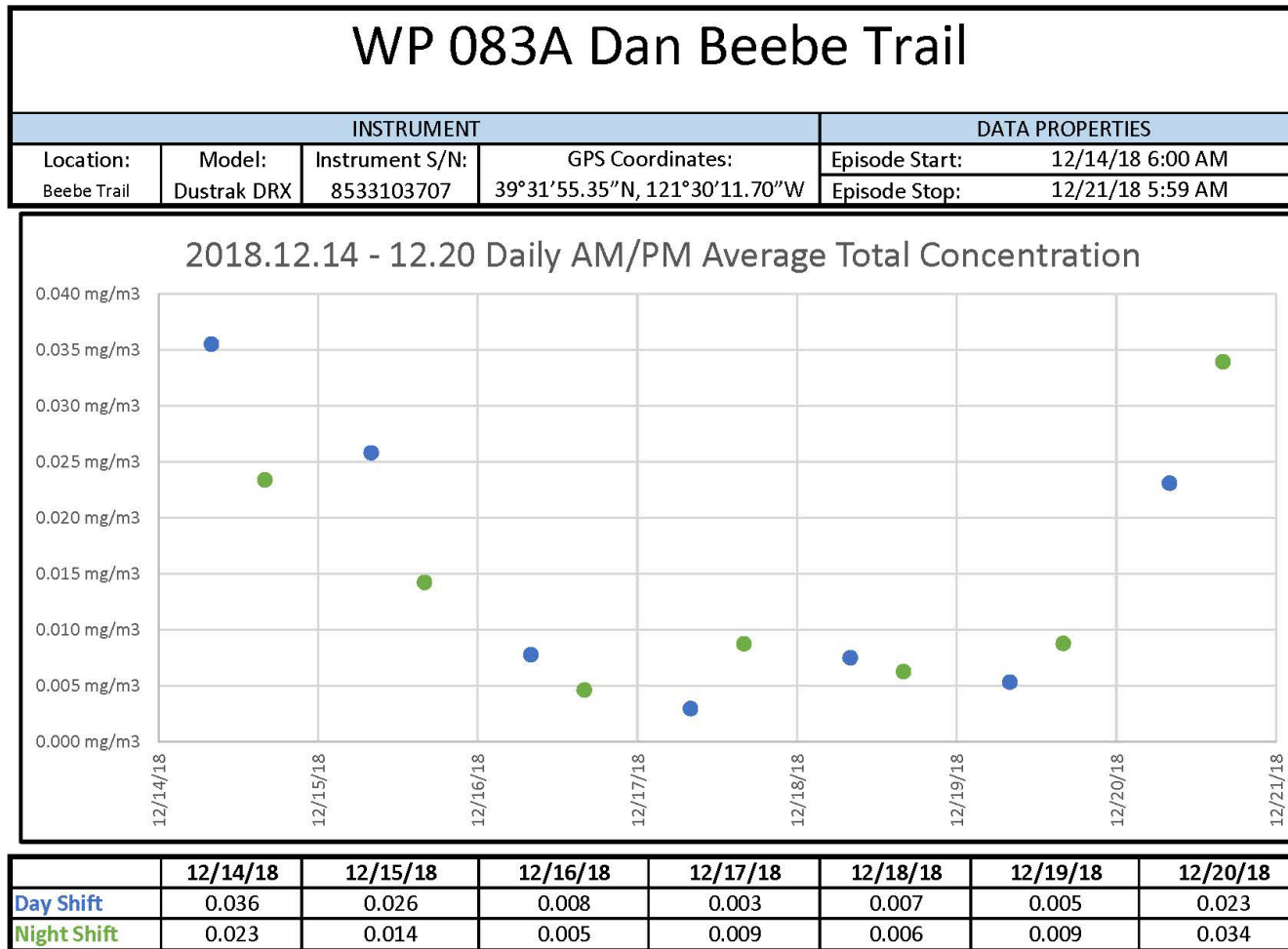


Figure 29 WP 083A Dan Beebe Trail Daily Dust Average (mg/m³) 12/21

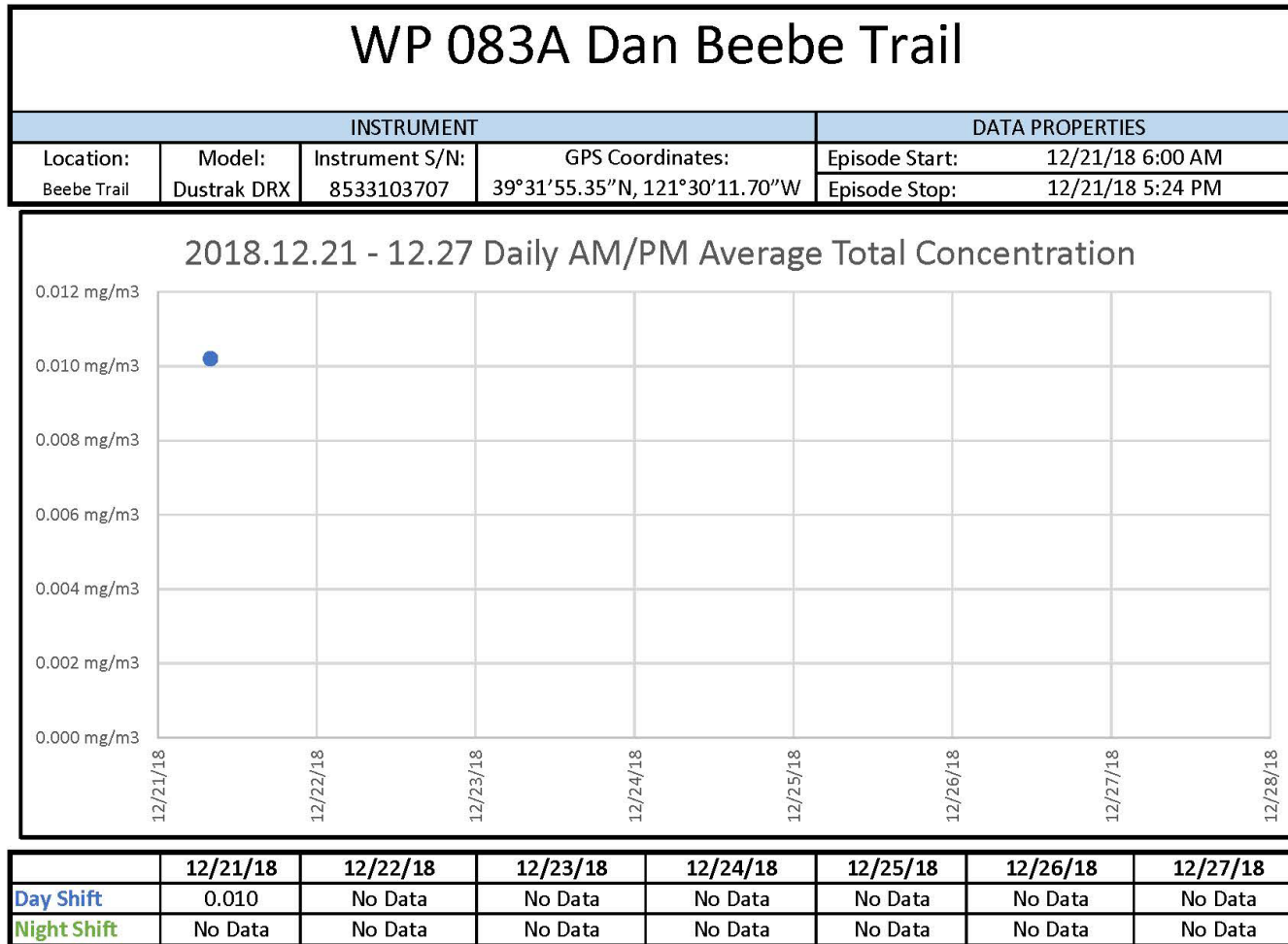


Figure 30 WP 084A SE Upper Overlook Daily Dust Average (mg/m³) 12/14-12/20

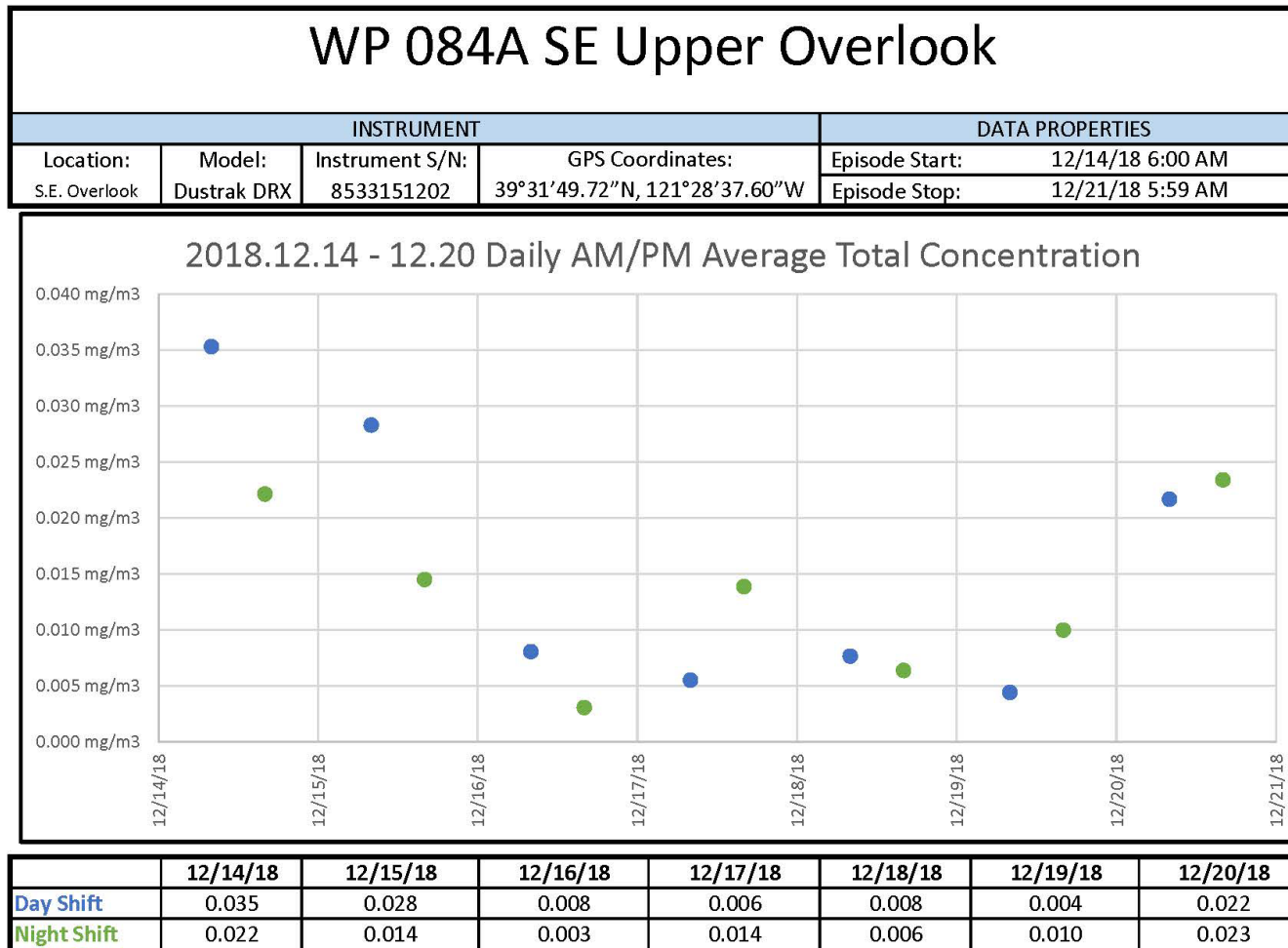
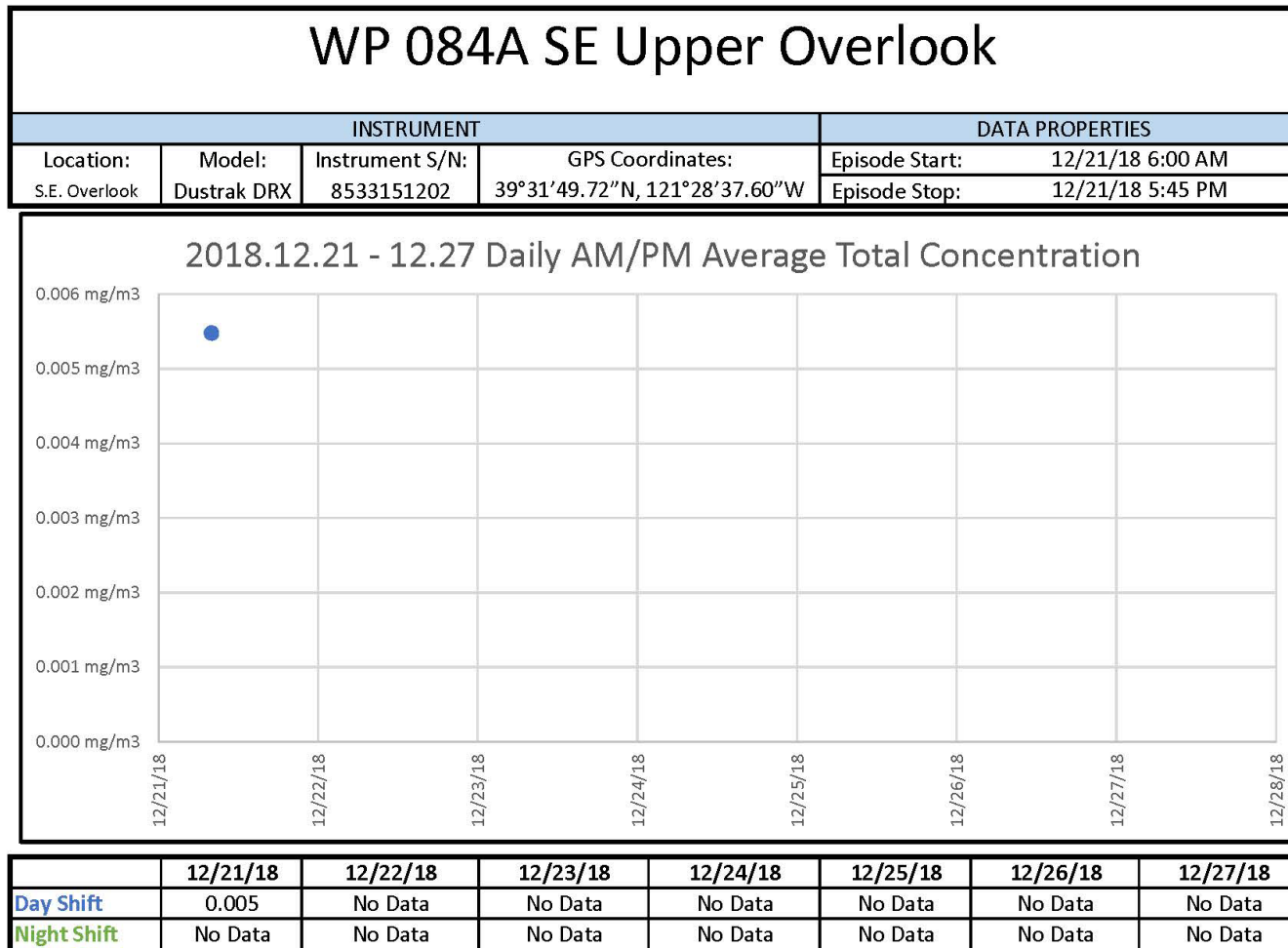


Figure 31 WP 084A SE Upper Overlook Daily Dust Average (mg/m³) 12/21



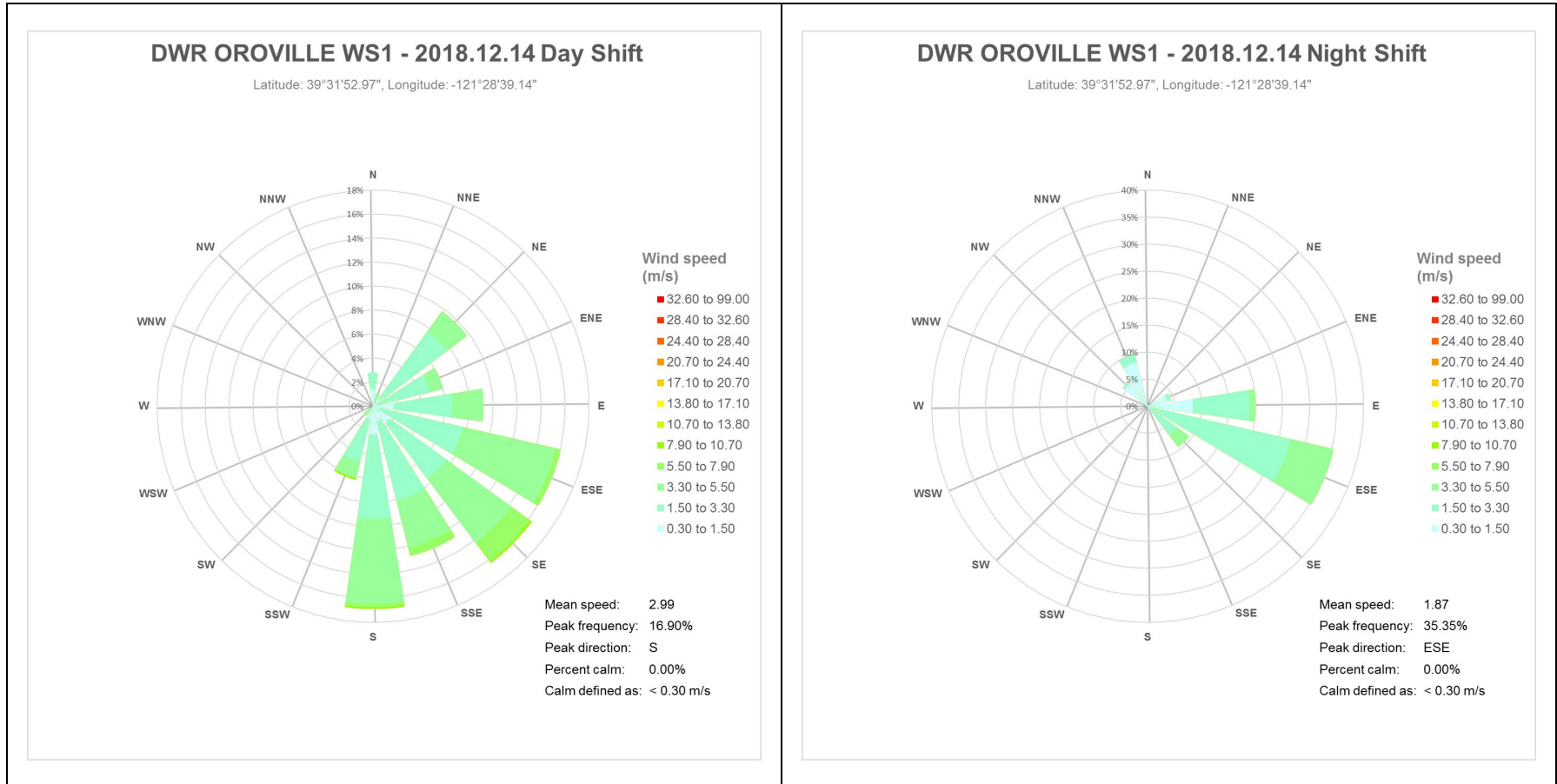
9.0 Meteorological Data & Daily Wind Rose

WS1 Weather Station is a Davis Instruments Vantage Pro2. This station is at WP045A 39°31'52.97"N, 121°28'39.14"W at the Upper Overlook area.

WS2 Weather Station is a Davis Instruments Vantage Pro2. This station was located at WP044A 39°31'47.96"N, 121°33'6.42"W S.W. Diversion Dam.

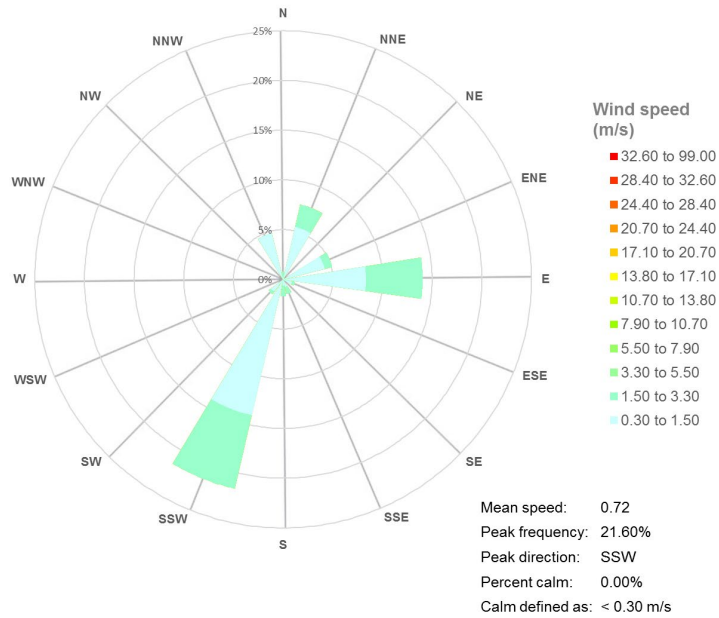
The standard Vantage Pro 2 station consists of three main components: the indoor console on which all the weather readings are displayed; the anemometer for measuring wind speed and direction; and an assembly known as the Integrated Sensor Suite (ISS for short) that contains all the other outside sensors, such as those for temperature, humidity, rainfall etc.

Figure 32 Wind Rose – Day & Night Shift Upper Overlook



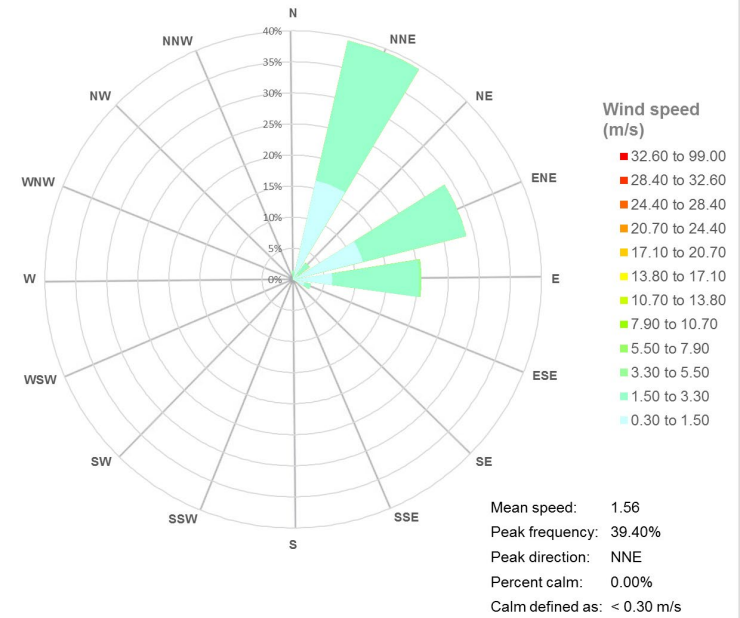
DWR OROVILLE WS1 - 2018.12.15 Day Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



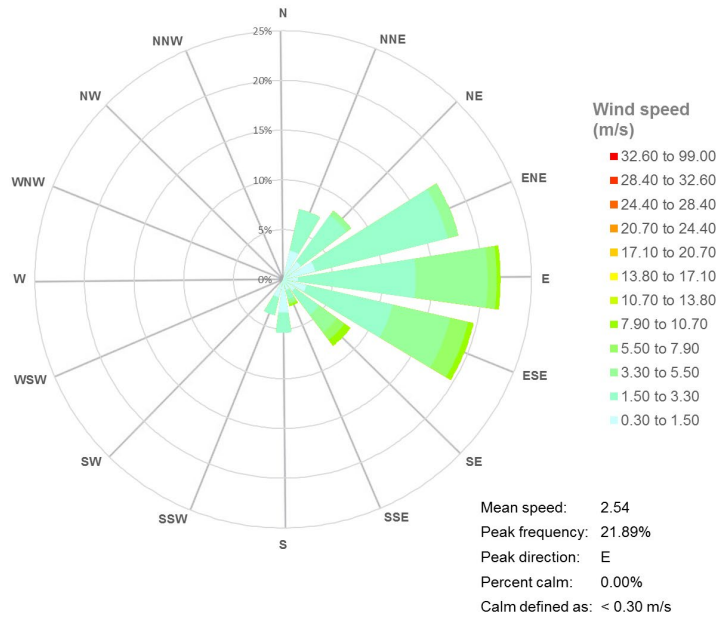
DWR OROVILLE WS1 - 2018.12.15 Night Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



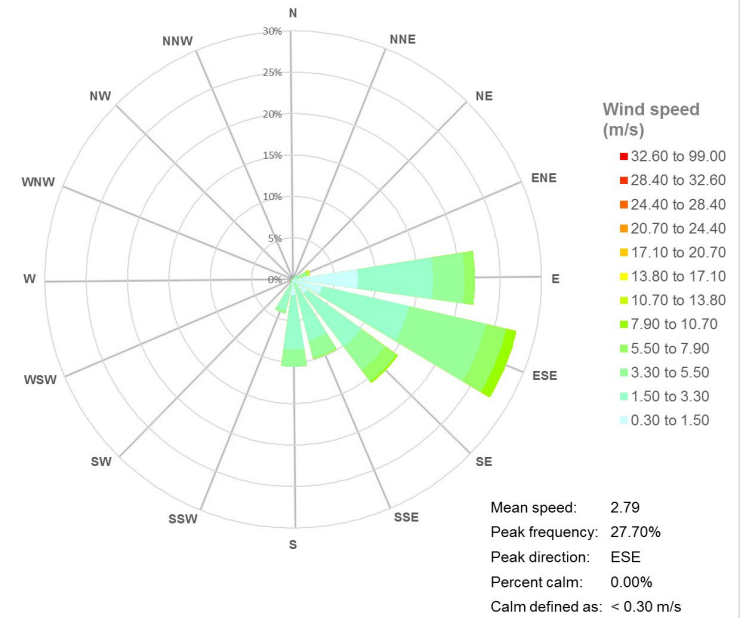
DWR OROVILLE WS1 - 2018.12.16 Day Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



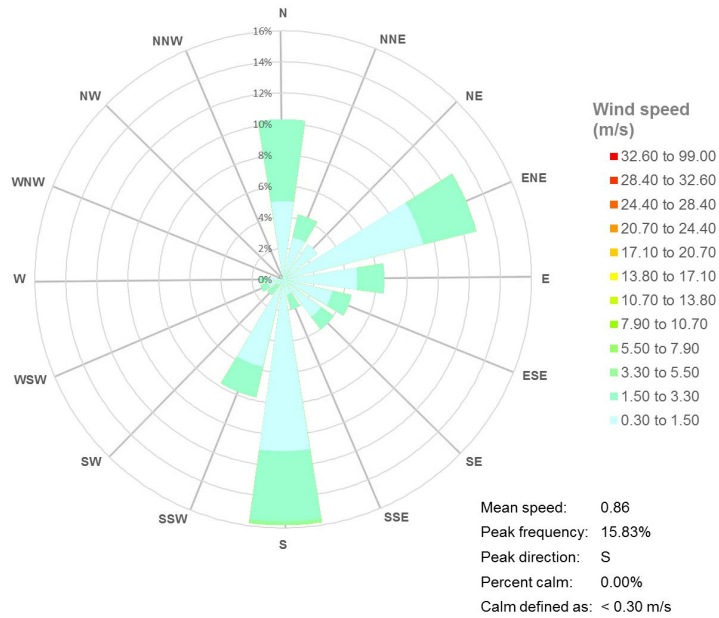
DWR OROVILLE WS1 - 2018.12.16 Night Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



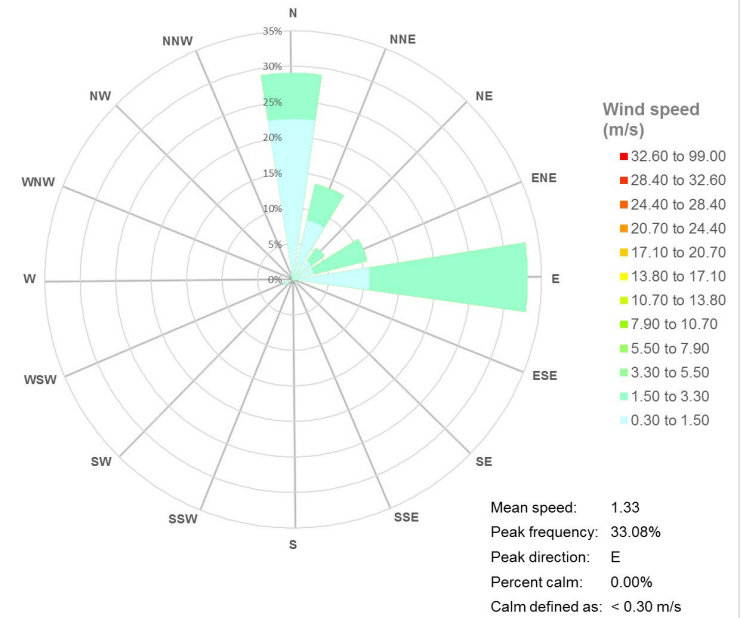
DWR OROVILLE WS1 - 2018.12.17 Day Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



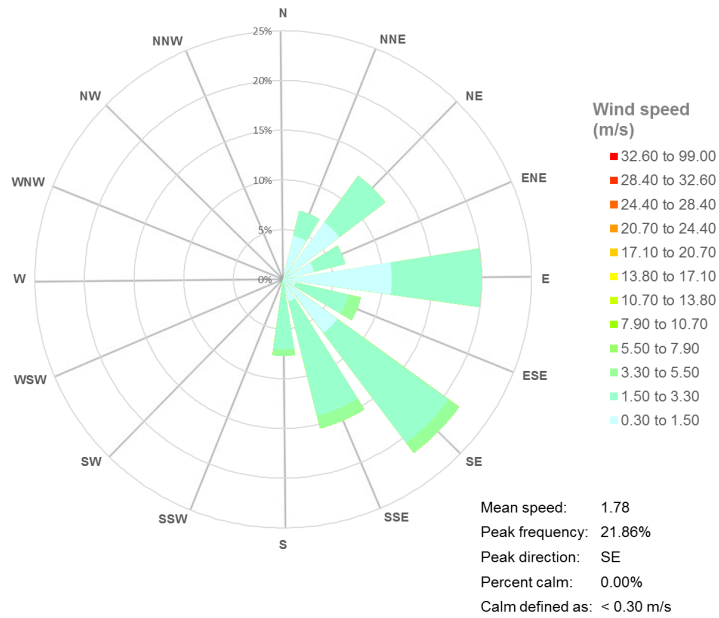
DWR OROVILLE WS1 - 2018.12.17 Night Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



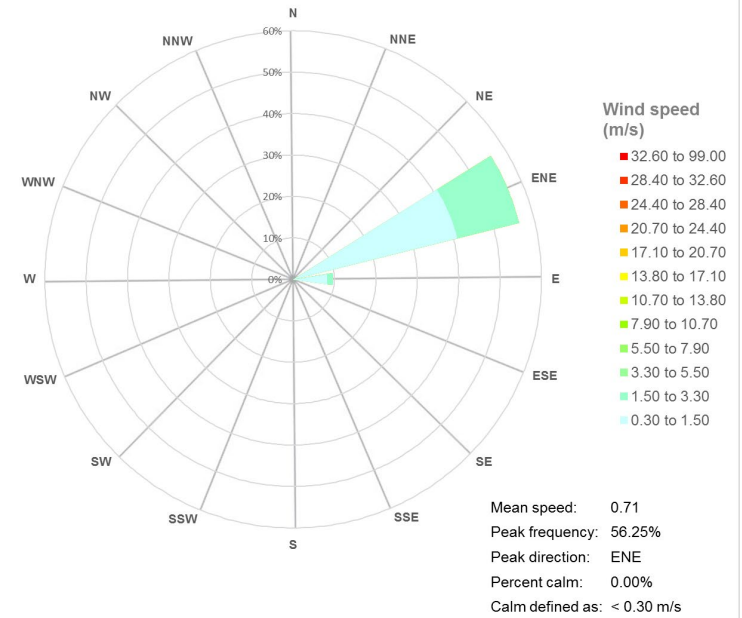
DWR OROVILLE WS1 - 2018.12.18 Day Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



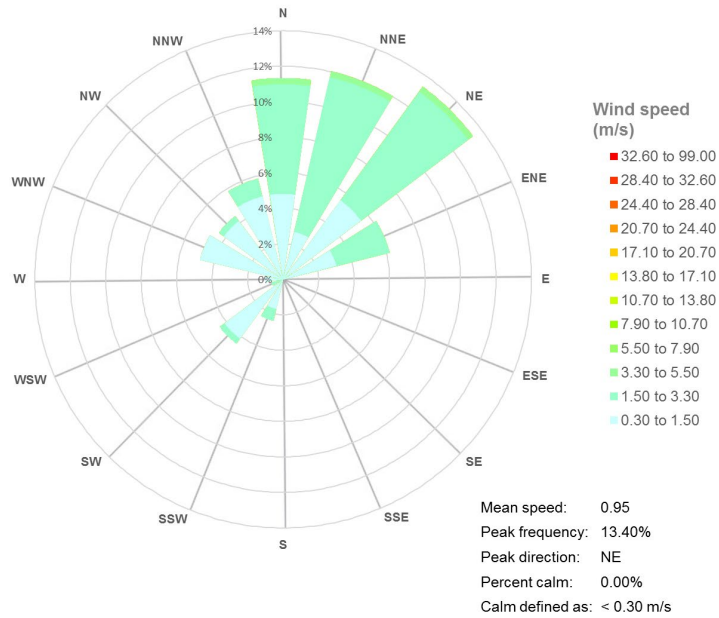
DWR OROVILLE WS1 - 2018.12.18 Night Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



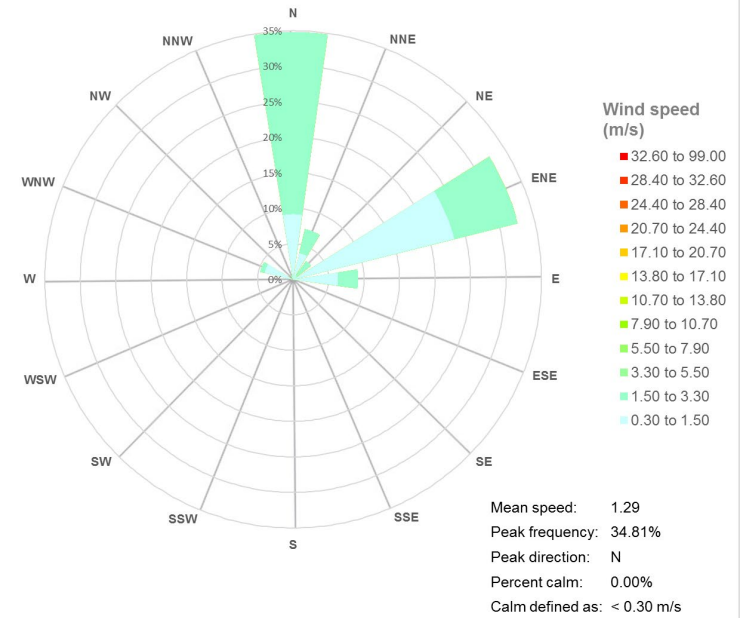
DWR OROVILLE WS1 - 2018.12.19 Day Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



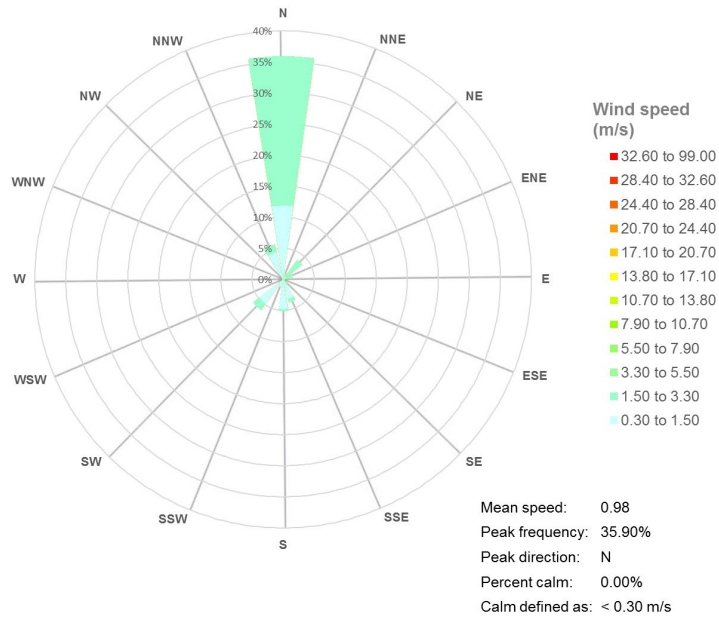
DWR OROVILLE WS1 - 2018.12.19 Night Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



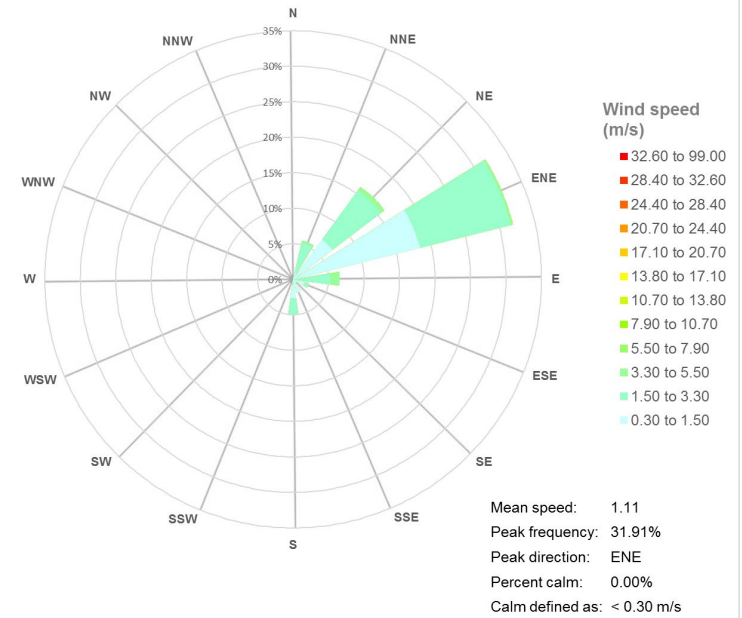
DWR OROVILLE WS1 - 2018.12.20 Day Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



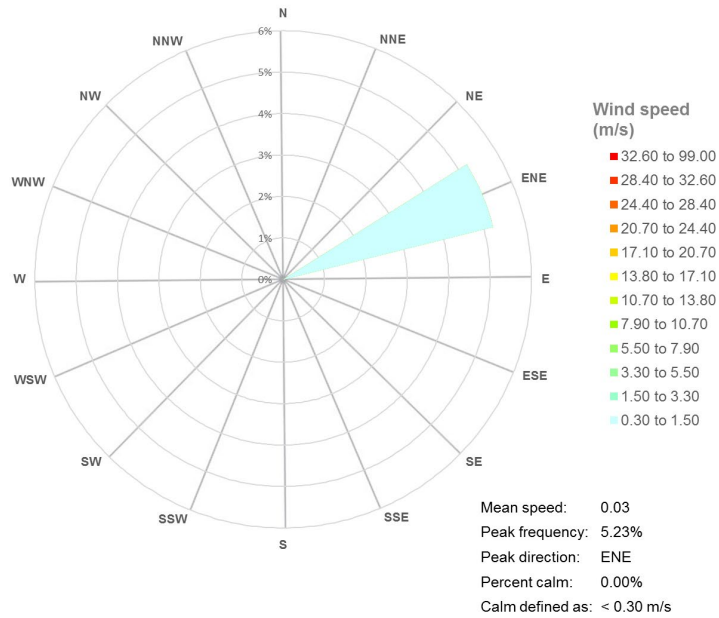
DWR OROVILLE WS1 - 2018.12.20 Night Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



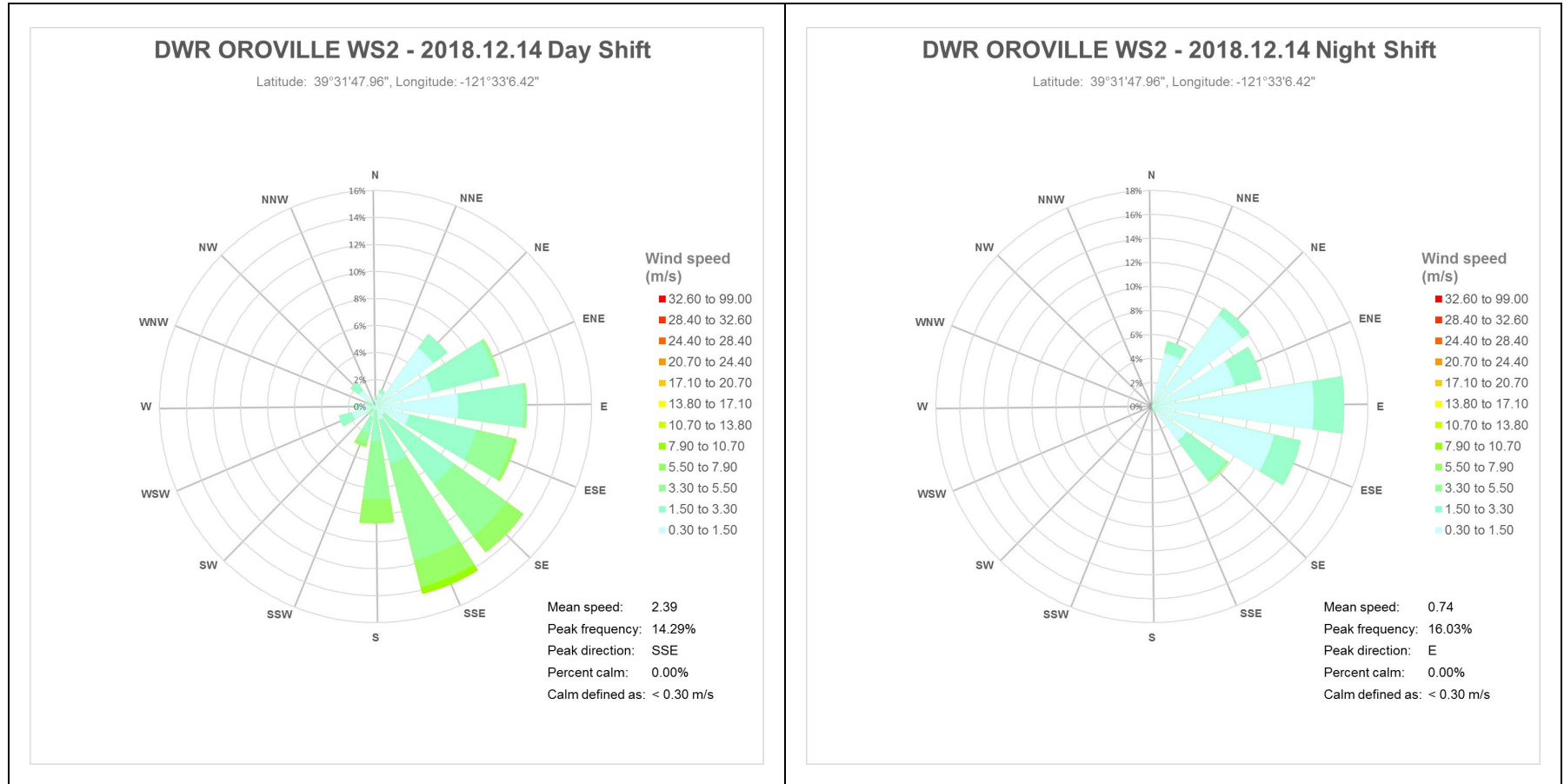
DWR OROVILLE WS1 - 2018.12.21 Day Shift

Latitude: 39°31'52.97", Longitude: -121°28'39.14"



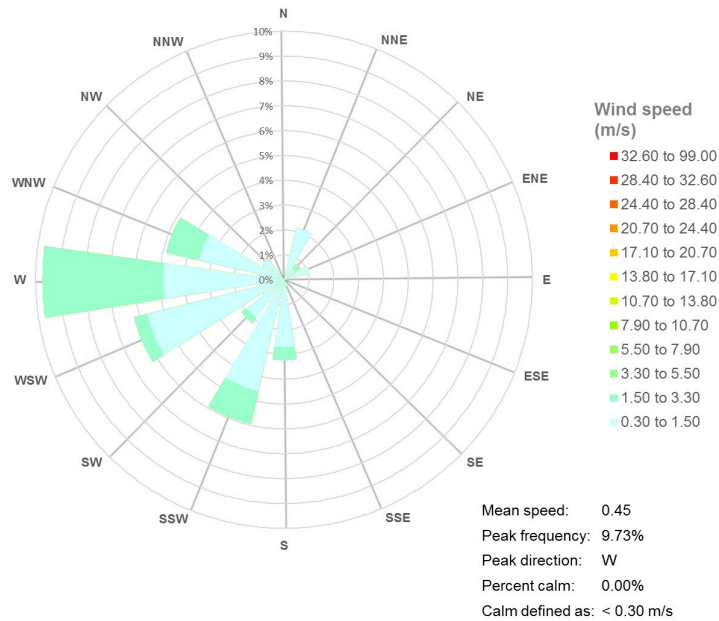
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Figure 33 Wind Rose – Day & Night Shift Diversion Dam



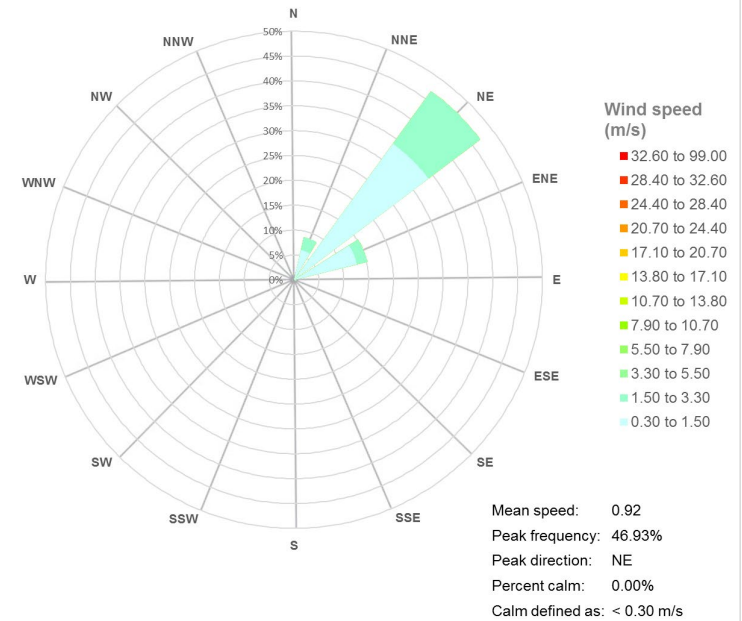
DWR OROVILLE WS2 - 2018.12.15 Day Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



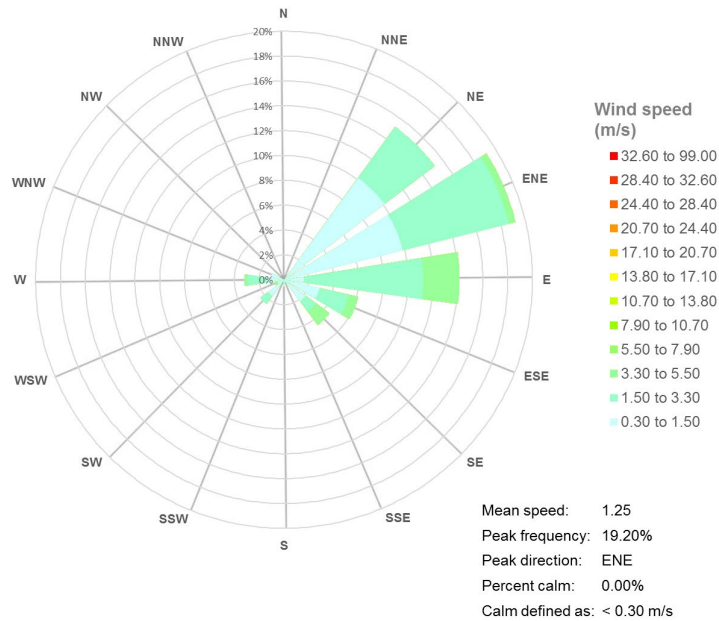
DWR OROVILLE WS2 - 2018.12.15 Night Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



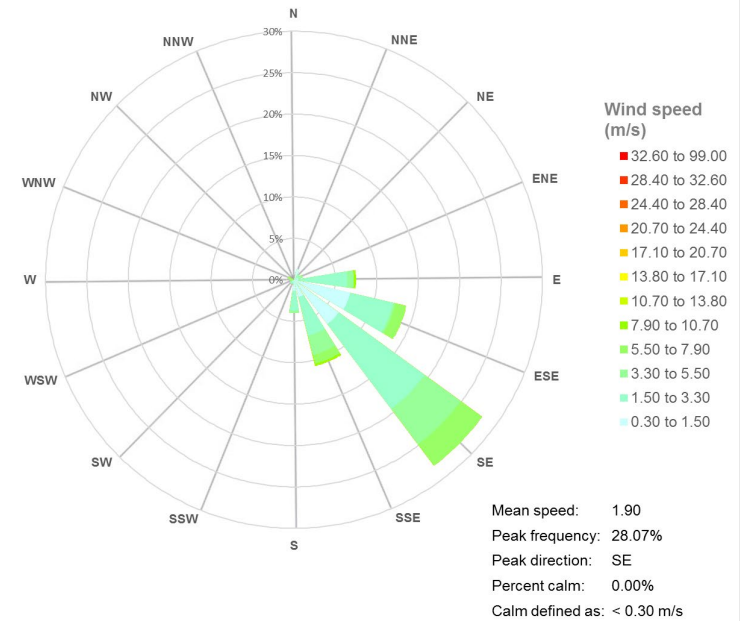
DWR OROVILLE WS2 - 2018.12.16 Day Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



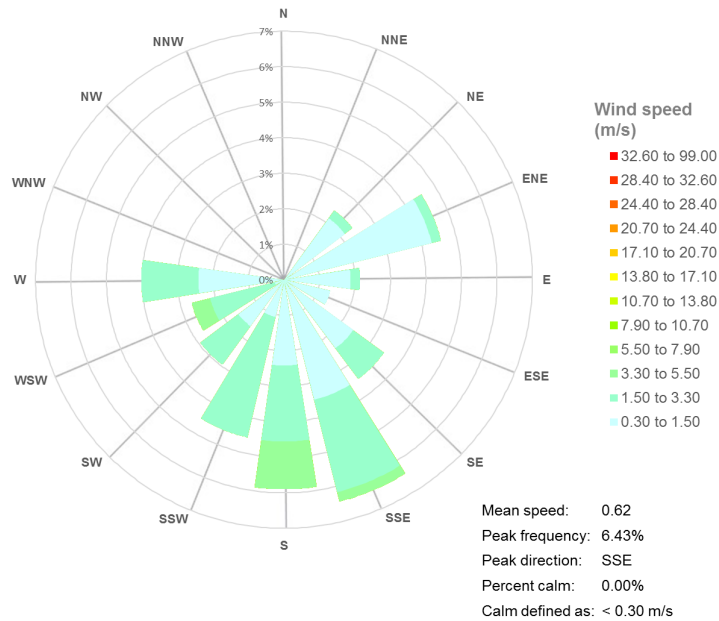
DWR OROVILLE WS2 - 2018.12.16 Night Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



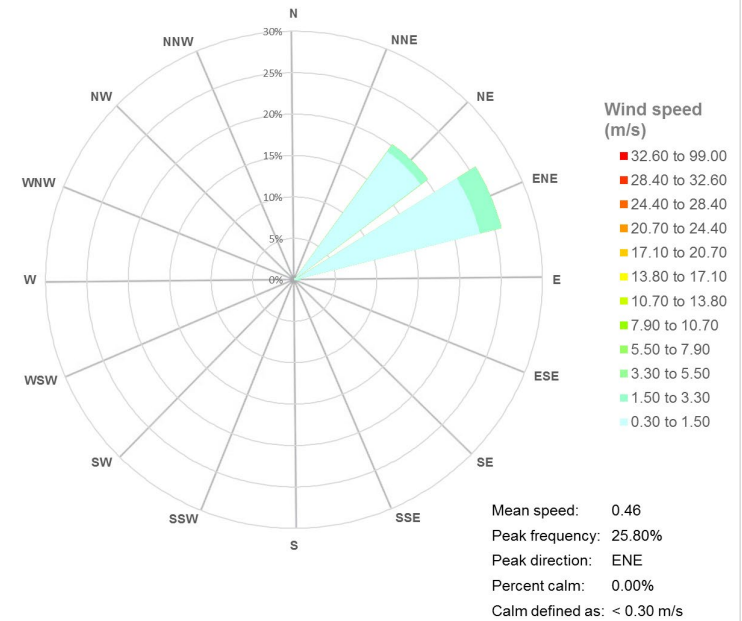
DWR OROVILLE WS2 - 2018.12.17 Day Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



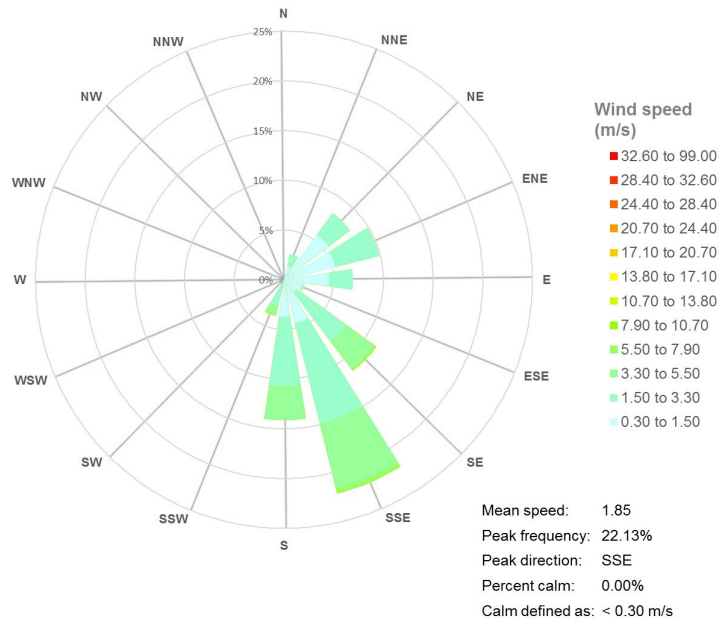
DWR OROVILLE WS2 - 2018.12.17 Night Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



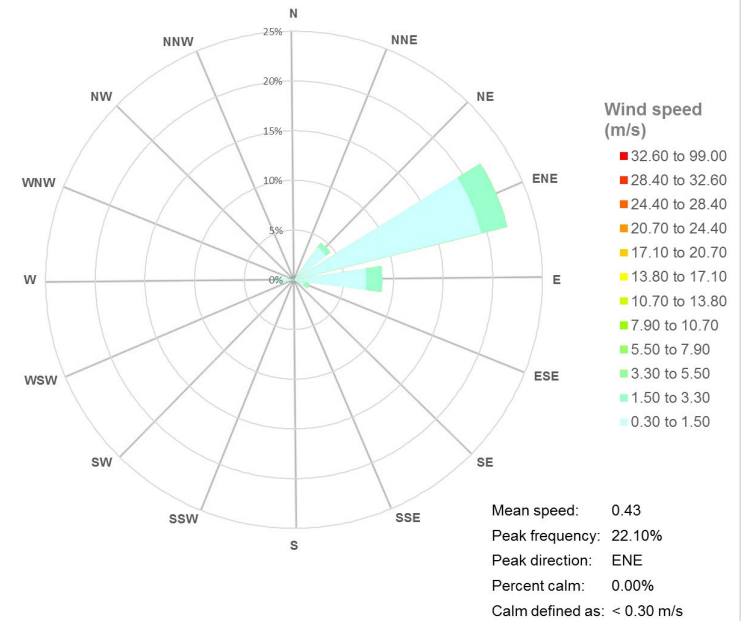
DWR OROVILLE WS2 - 2018.12.18 Day Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



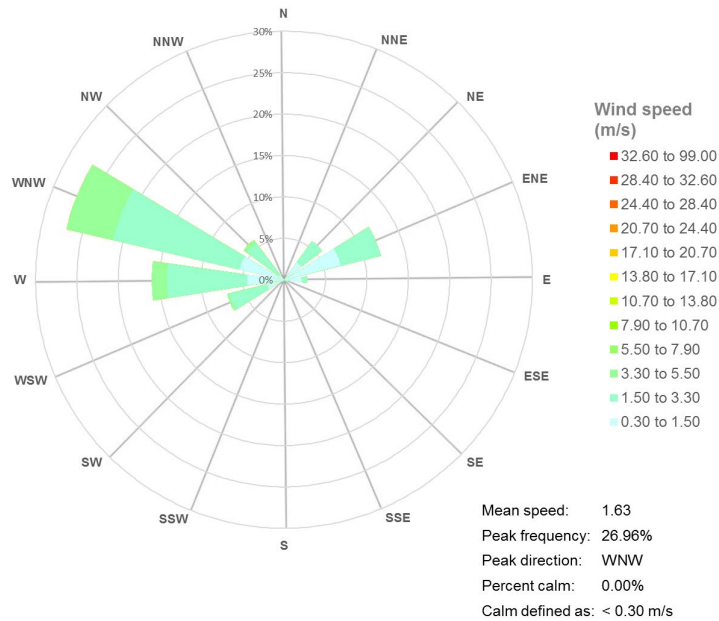
DWR OROVILLE WS2 - 2018.12.18 Night Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



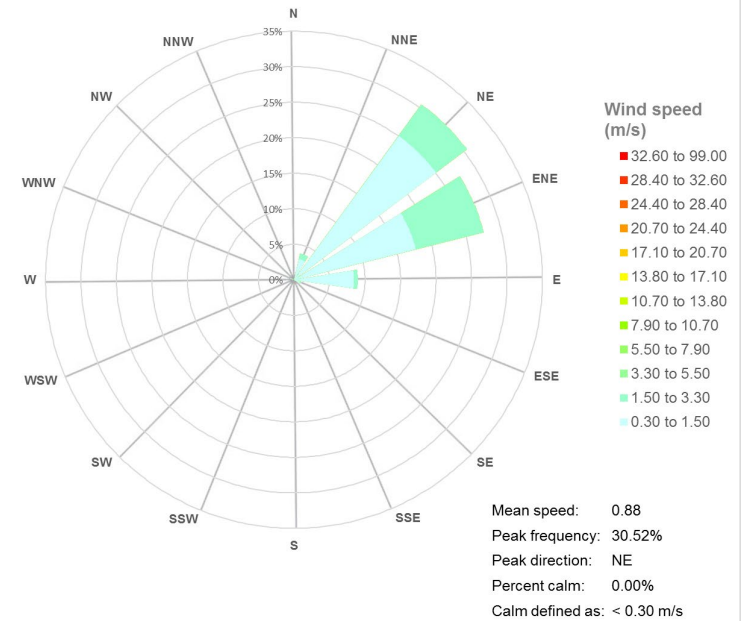
DWR OROVILLE WS2 - 2018.12.19 Day Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



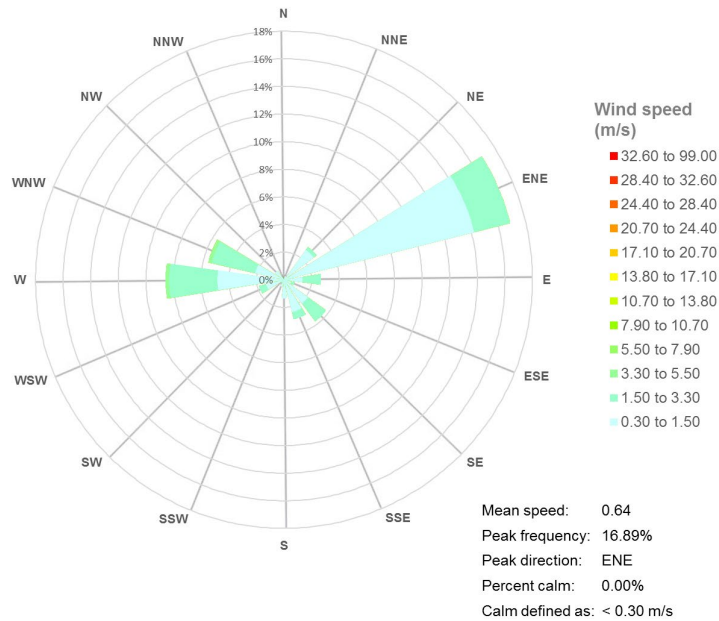
DWR OROVILLE WS2 - 2018.12.19 Night Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



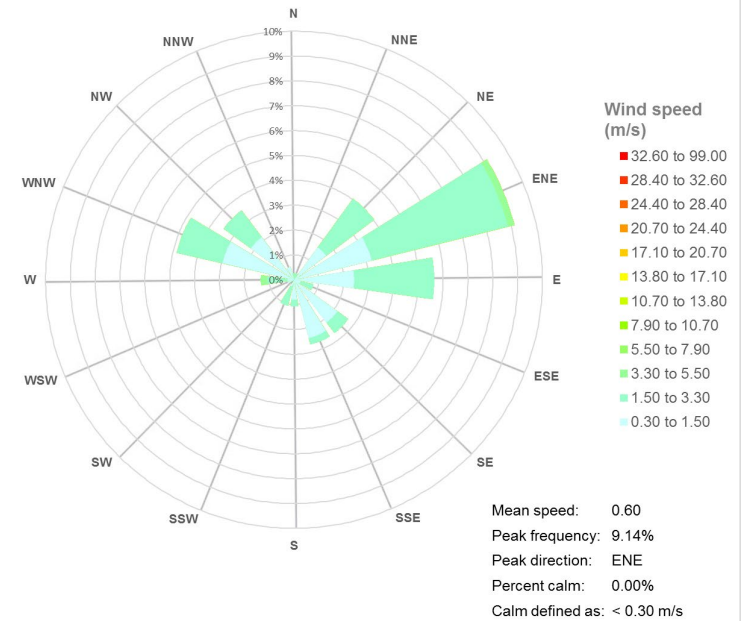
DWR OROVILLE WS2 - 2018.12.20 Day Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



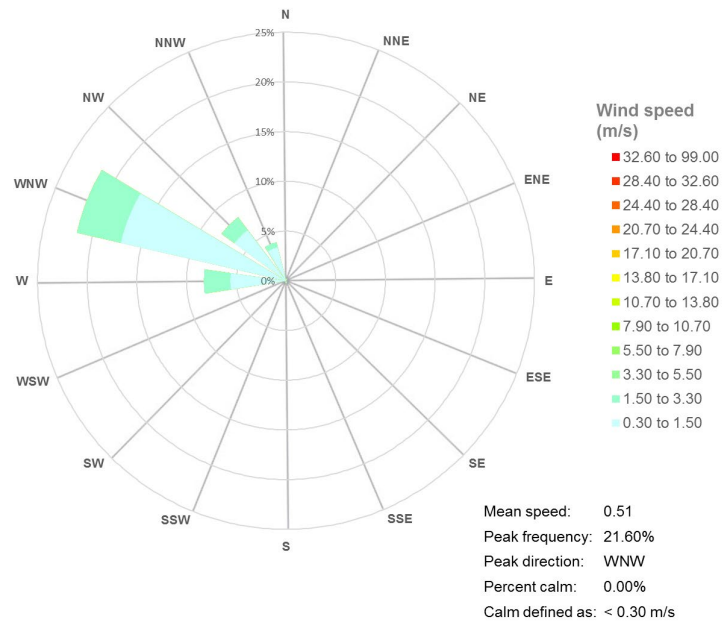
DWR OROVILLE WS2 - 2018.12.20 Night Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



DWR OROVILLE WS2 - 2018.12.21 Day Shift

Latitude: 39°31'47.96", Longitude: -121°33'6.42"



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10.0 Weather Pattern Events

Table 17 Weather Pattern Events December 14, 2018 – December 27, 2018

2018	Temp. (°F)			Dew Point (°F)			Humidity (%)			Station Bar Press. (in)			Visibility (mi)			Wind (mph)			Precipitation			Events
Dec	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Sum	Min	Type
14	61	50	39	53	48	38	97	-	56	30.17	-	30.05		-		23	-	0	-	0.14	-	rain
15	54	51	48	54	50	47	100	-	82	30.15	-	30.08		-		9	-	0	-	0.03	-	Lt. rain
16	55	52	50	54	48	39	100	-	59	30.11	-	30		-		9	-	0	-	1.23	-	rain
17	57	54	50	53	50	46	97	-	65	30.3	-	30.04		-		5	-	5	-	0.36	-	rain
18	62	54	46	48	46	44	90	-	58	30.37	-	30.28		-		5	-	5	-	0	-	
19	64	55	46	52	49	44	93	-	62	30.36	-	30.16		-		5	-	5	-	0	-	
20	55	53	51	51	48	44	97	-	74	30.23	-	30.11		-		5	-	5	-	0.19	-	rain
21	57	51	44	53	51	42	100	-	82	30.16	-	30.09		-		5	-	5	-	0.1	-	rain
22	51	44	37	47	43	35	97	-	82	30.22	-	30.12		-		5	-	5	-	0	-	
23	52	49	46	50	47	45	100	-	86	30.31	-	30.23		-		5	-	5	-	0.15	-	rain
24	52	49	46	50	48	45	100	-	89	30.26	-	29.84		-		5	-	5	-	0.56	-	rain
25	61	50	39	45	41	35	100	-	47	30.1	-	29.92		-		5	-	5	-	0	-	
26	54	44	35	38	35	31	89	-	52	30.19	-	30.09		-		5	-	5	-	0	-	
27	53	0	53	27	27	27	37	-	37	30.25	-	30.15		-		0	-	0	-	0	-	

NCDC/NOAA not available per lapse in appropriation. Data above from Weather Underground location - # KCAOROV1 46 (39.520 / 121.525; elev 515 ft)

11.0 Potential Offsite Air Contaminant Events

There were no apparent potential offsite air contaminant events recorded during this time period.

12.0 Changes to Proposed Sampling Locations or Methodology

All air monitoring stations were suspended for holiday shutdown at the end of the 12/21/18 AM Shift.

Appendix A – Laboratory Reports

Appendix B – Perimeter Dust Monitoring