

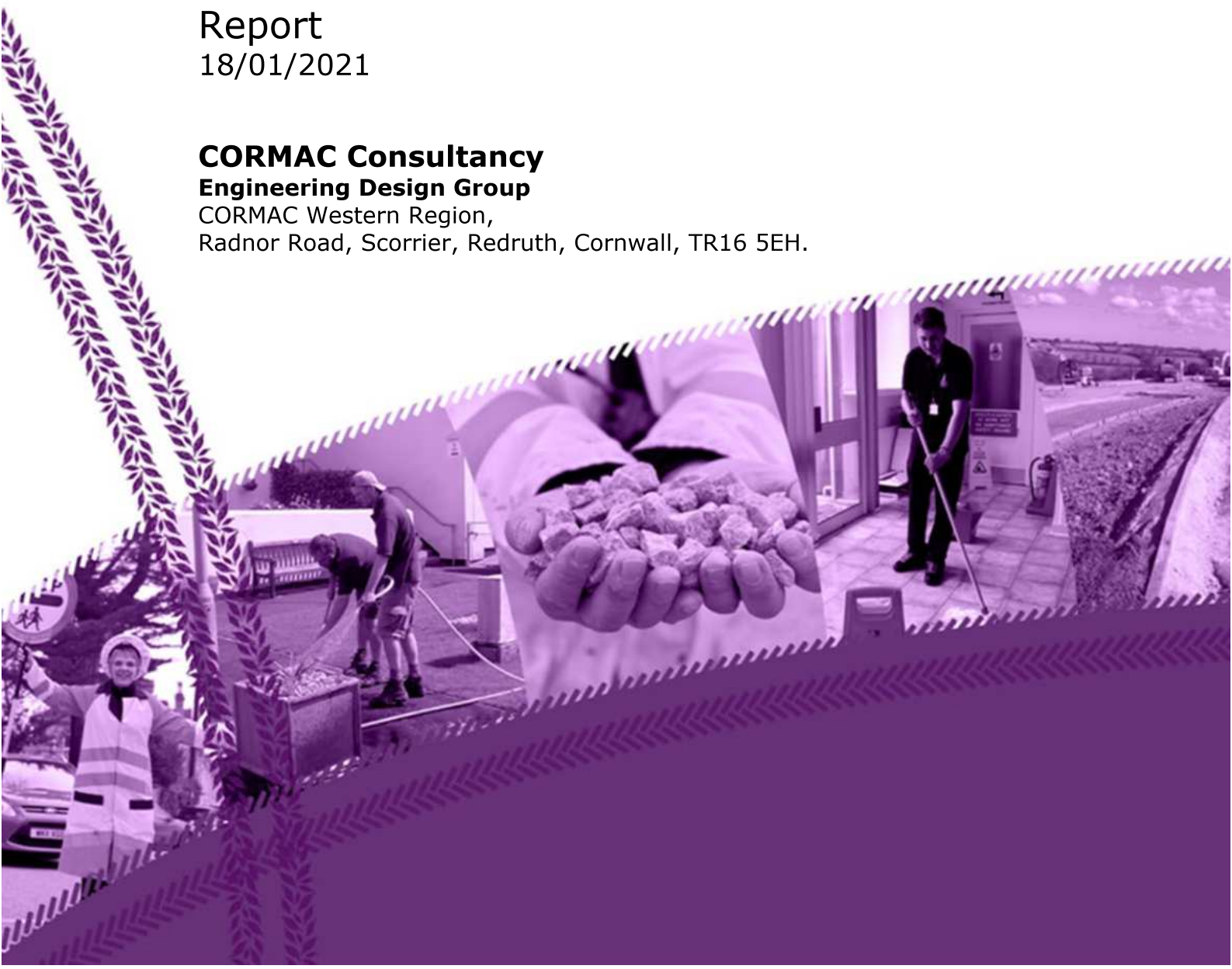





RadarClass

C0010 Mine Hill, Menheniot
January 2021

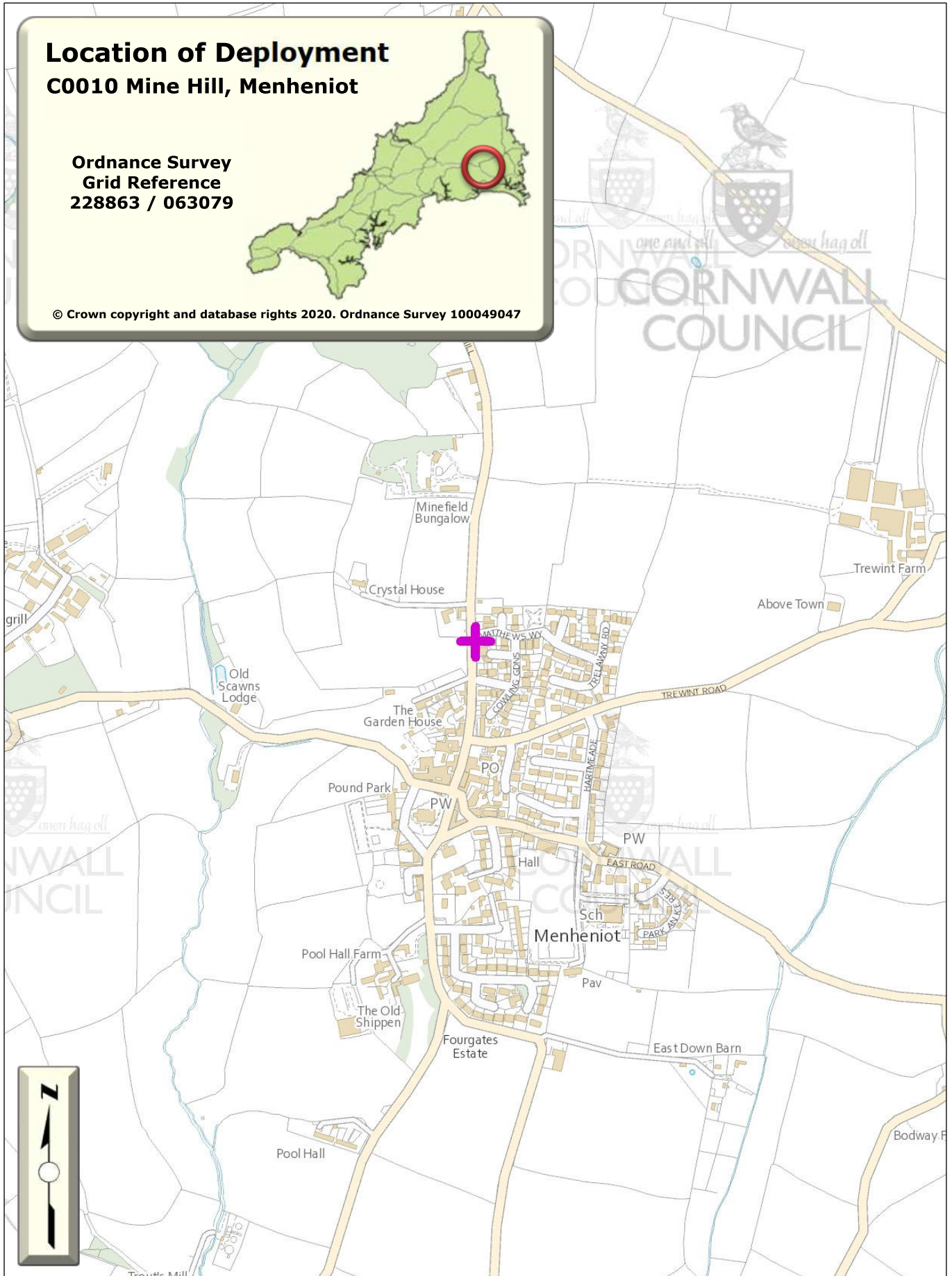
Report
18/01/2021

CORMAC Consultancy
Engineering Design Group
CORMAC Western Region,
Radnor Road, Scorrier, Redruth, Cornwall, TR16 5EH.



		<h1>RadarClass</h1>				
		<h2>C0010 Mine Hill, Menheniot</h2> <h3>January 2021</h3> <h4>Southbound / Northbound</h4>				
Route N ^o	Column N ^o	Neighbourhood Service Area	RadarClass Unit ID	Ordnance Survey Grid Reference		
C0010	Post	East	Unit 3	228863 / 063079		
Date of Deployment		End of Operation		Total Period of Operation		
08/01/2021		15/01/2021		8 days		
Summary Table						
 Speed Limit	All Observations		Weekdays		Weekends	
	Southbound	Northbound	Southbound	Northbound	Southbound	Northbound
Number of Observations:	1,158	1,575	941	1,293	217	282
Mean Speed (mph):	25.6	26.1	25.6	26.0	25.7	26.5
85%ile Speed (mph):	31	32	31	32	31	32
Standard Deviation:	5.5	6.1	5.4	6.0	5.9	6.2
% ≤  :	83.5%	79.1%	84.7%	79.4%	78.3%	77.7%
% 31 mph to 40 mph:	16.0%	19.4%	14.8%	19.4%	21.2%	19.1%
% >40 mph:	0.5%	1.5%	0.5%	1.2%	0.5%	3.2%
Comments:						
Data Submitted by:	Ken Dunn		Data Processed by:	Jim Rowe		

1. Location Map.




2. Glossary of Terms & Abbreviations.

RadarClass is a portable radar device that detects and records the speed of passing vehicles. The unit is housed in an unobtrusive rugged black anti-vandal housing which can be mounted on any item of roadside furniture without looking conspicuous.


The principal role of the unit is to detect and count passing vehicles and log the date, time and speed at which they passed. Data collected can be used to determine the volume of traffic flow on the road on which the unit has been deployed.



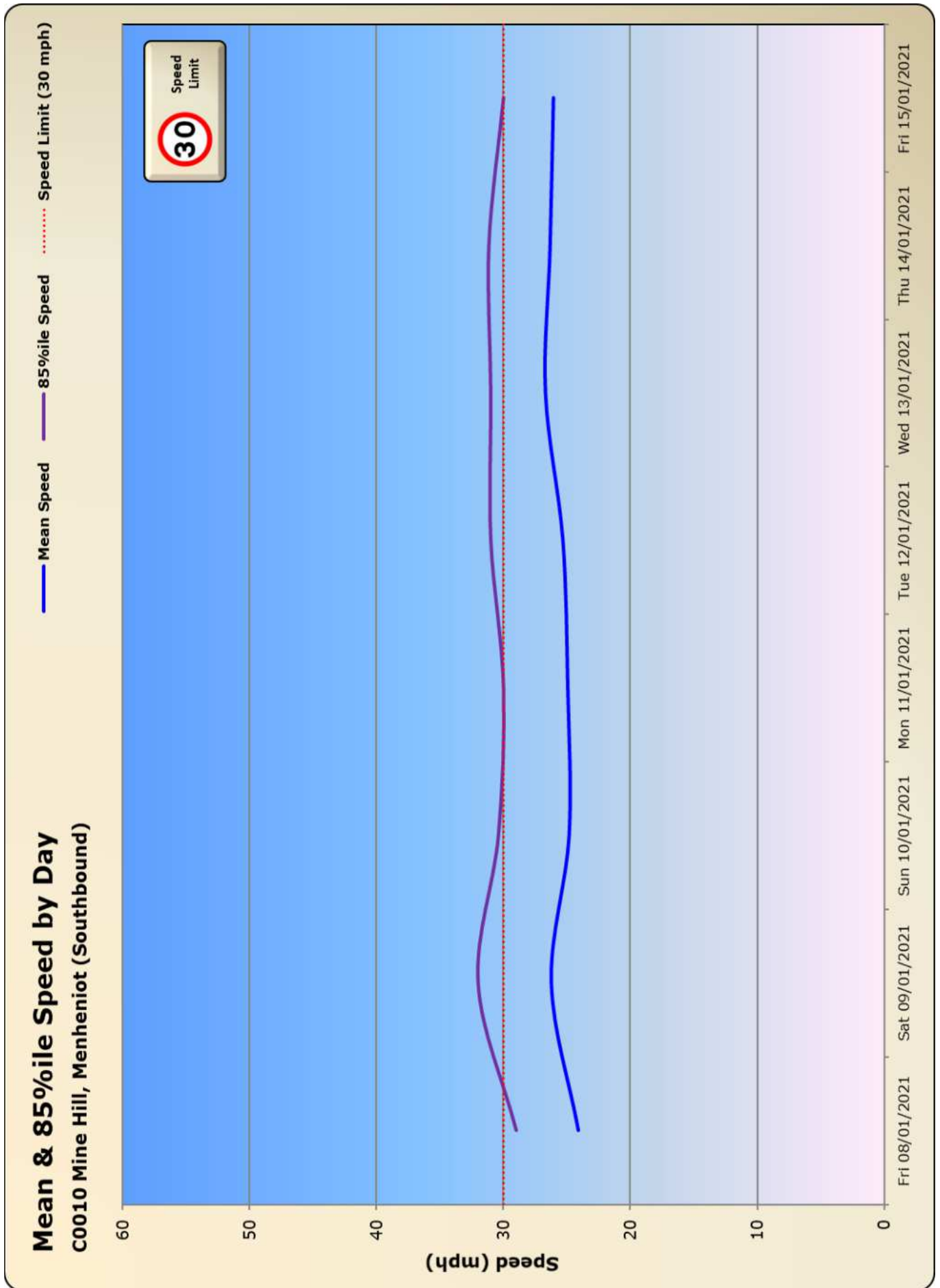
Nº of Observations:	The number of readings recorded by the radar. This does not correspond to an exact count of vehicles passing the sign, since vehicles may pass the sign in a tightly packed group (or 'platoon'); the radar will only record data for the 'lead vehicle' that is determining the speed for the remainder of the platoon.
Mean Speed:	The arithmetic average of all the speed values recorded.
85%ile Speed:	The speed at or below which 85% of the vehicles recorded were travelling.
Standard Deviation:	A measure of how widely speeds are dispersed from the Mean Speed.
% ≤  :	The percentage of vehicles travelling at speeds of 30 mph or below (i.e. the percentage of vehicles travelling at or within the 30 mph speed limit).
% 31 mph to 40 mph:	The percentage of vehicles travelling at speeds of between 31 mph and 40mph.
% >40 mph:	The percentage of vehicles travelling at speeds greater than 40 mph (i.e. the percentage of vehicles travelling at speeds in excess of 10mph above the 30 mph speed limit).

3. Southbound Detailed Statistics.

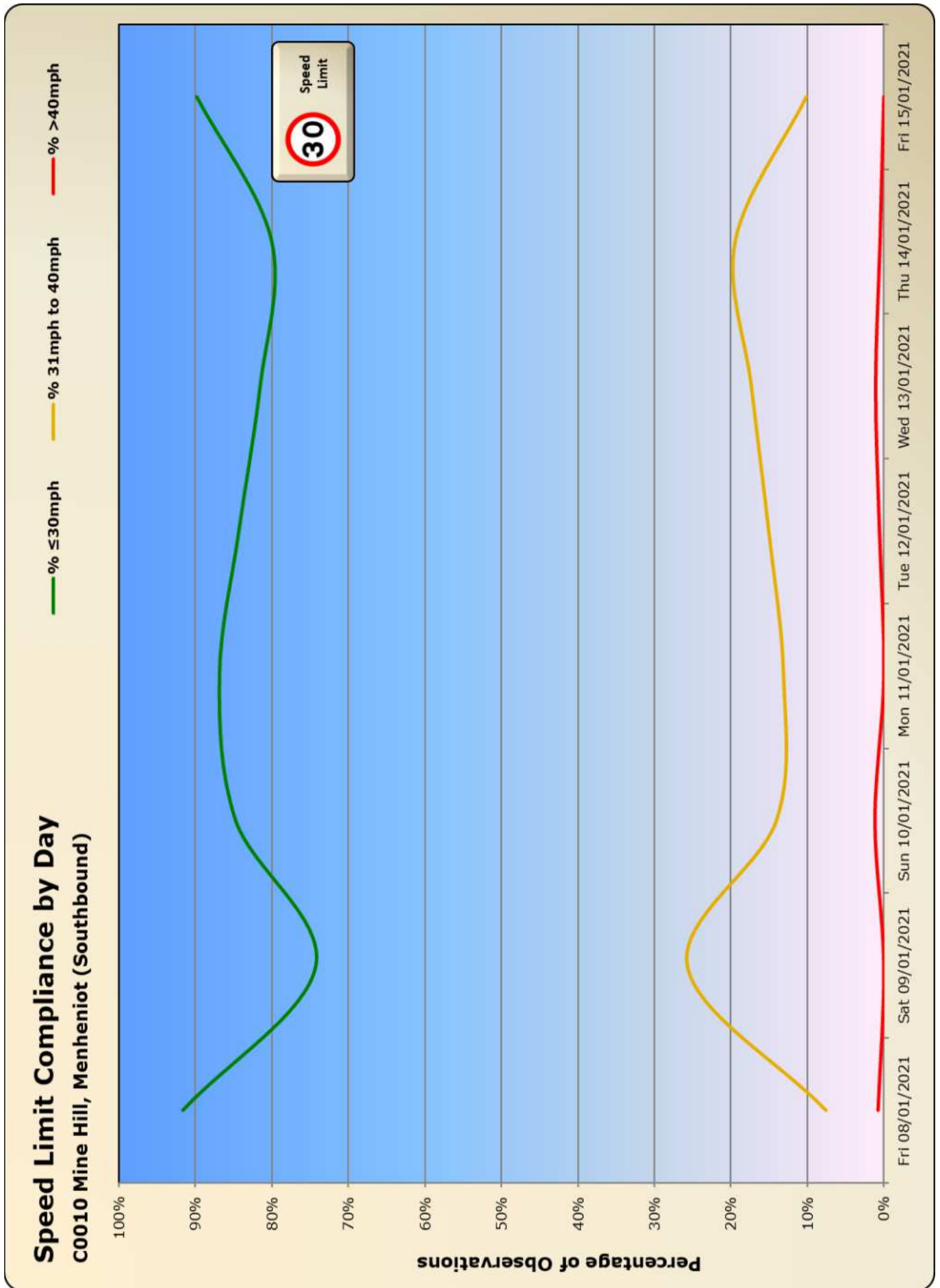
3.1.1. Southbound Daily Summary Table.

Date	Mean Speed	85 th ile Speed	Standard Deviation	$N_e \leq$ 	% 31 mph to 40 mph	% >40 mph
Fri 08/01/2021	24.1	29	5.6	91.6%	7.6%	0.8%
Sat 09/01/2021	26.2	32	5.5	74.2%	25.8%	0.0%
Sun 10/01/2021	24.8	30	6.5	84.7%	14.1%	1.2%
Mon 11/01/2021	24.9	30	5.5	86.8%	13.2%	0.0%
Tue 12/01/2021	25.3	31	5.6	84.3%	15.1%	0.6%
Wed 13/01/2021	26.7	31	5.2	81.5%	17.4%	1.1%
Thu 14/01/2021	26.3	31	5.3	80.0%	19.5%	0.5%
Fri 15/01/2021	26.1	30	4.2	89.8%	10.2%	0.0%

3.1.2. Southbound Mean Speed & 85%ile Speeds by Day Chart.



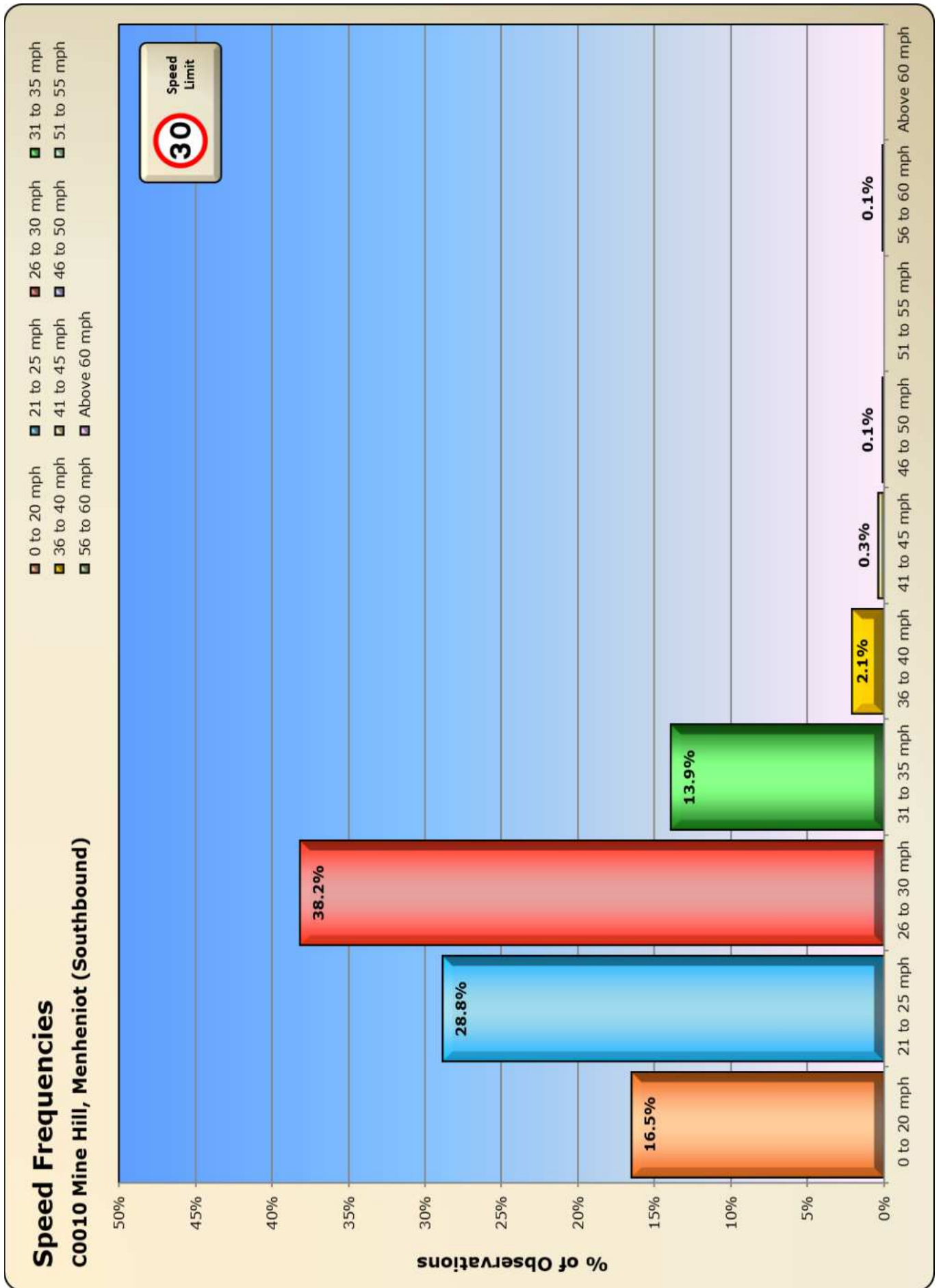
3.1.3. Southbound Speed Limit Compliance by Day Chart.




3.2.1. Southbound Speed Frequencies by Day Table.

Date	No ≤ 30			No > 30							Total
	0 to 20 mph	21 to 25 mph	26 to 30 mph	31 to 35 mph	36 to 40 mph	41 to 45 mph	46 to 50 mph	51 to 55 mph	56 to 60 mph	Above 60 mph	
Fri 08/01/2021	30	38	52	9	1	0	1	0	0	0	131
Sat 09/01/2021	16	42	40	29	5	0	0	0	0	0	132
Sun 10/01/2021	21	26	25	12	0	0	0	0	1	0	85
Mon 11/01/2021	41	65	72	20	7	0	0	0	0	0	205
Tue 12/01/2021	27	56	62	24	2	1	0	0	0	0	172
Wed 13/01/2021	24	39	87	28	4	2	0	0	0	0	184
Thu 14/01/2021	29	52	79	34	5	1	0	0	0	0	200
Fri 15/01/2021	3	16	25	5	0	0	0	0	0	0	49
Total	191	334	442	161	24	4	1	0	1	0	1,158
% of Total	16.5%	28.8%	38.2%	13.9%	2.1%	0.3%	0.1%	0.0%	0.1%	0.0%	100.0%

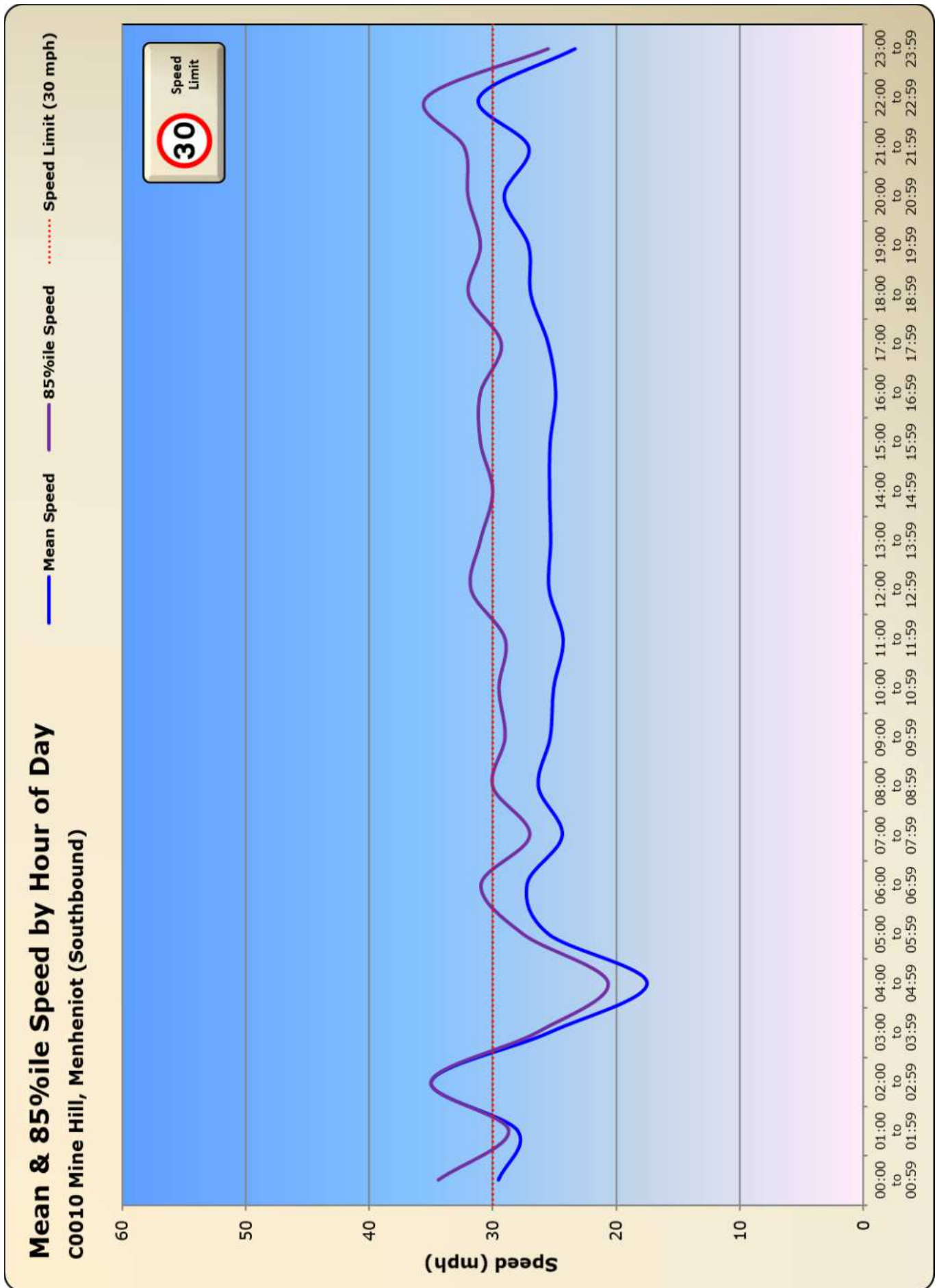
3.2.2. Southbound Speed Frequencies Chart.



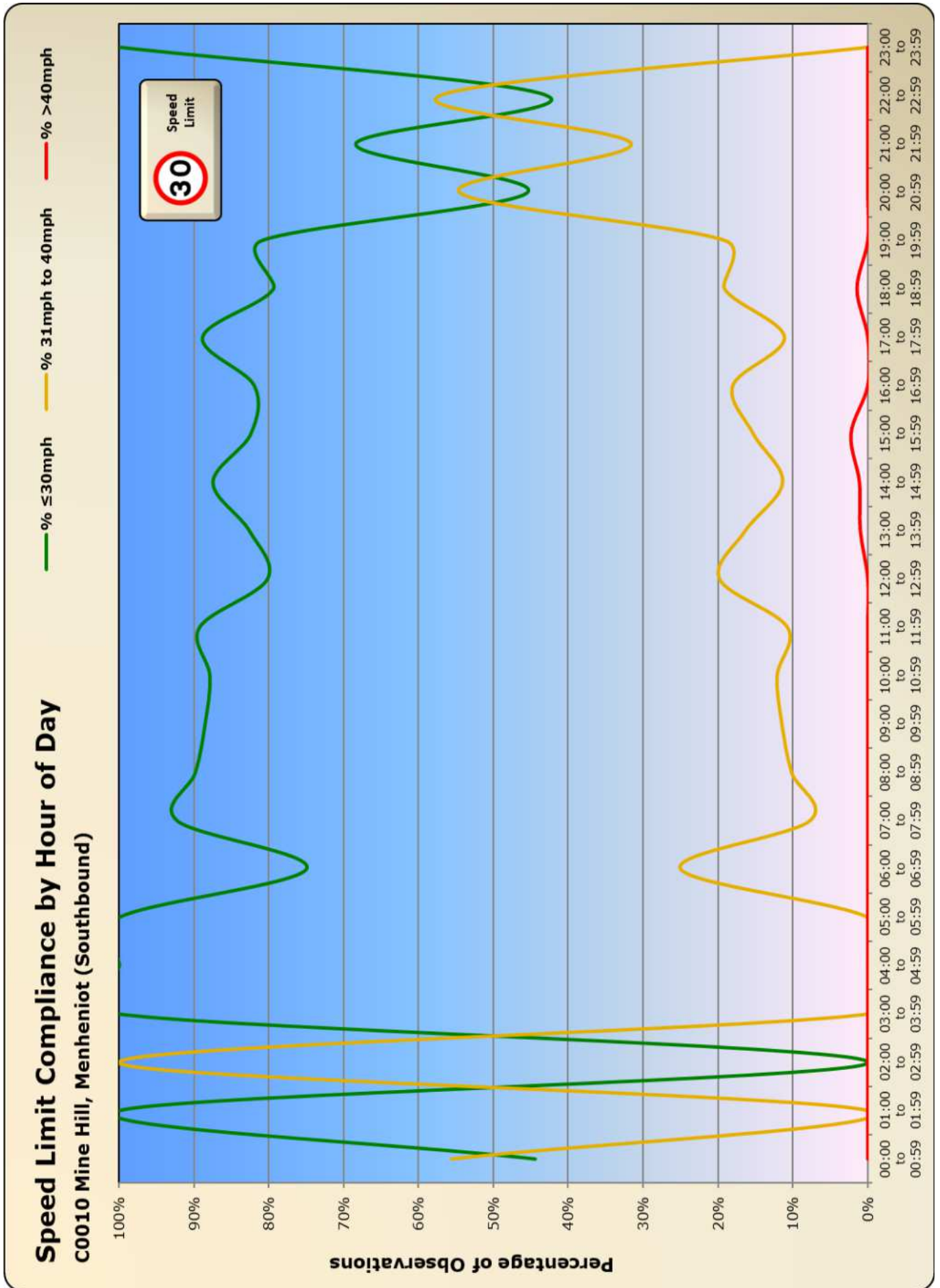
3.3.1. Southbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	$N_e \leq$ 	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	29.6	34	5.2	44.4%	55.6%	0.0%
01:00 to 01:59	28.0	29	1.4	100.0%	0.0%	0.0%
02:00 to 02:59	35.0	35	-	0.0%	100.0%	0.0%
03:00 to 03:59	25.4	26	1.1	100.0%	0.0%	0.0%
04:00 to 04:59	17.5	21	6.4	100.0%	0.0%	0.0%
05:00 to 05:59	25.5	28	2.4	100.0%	0.0%	0.0%
06:00 to 06:59	27.3	31	5.5	75.0%	25.0%	0.0%
07:00 to 07:59	24.4	27	3.8	92.3%	7.7%	0.0%
08:00 to 08:59	26.3	30	4.5	89.8%	10.2%	0.0%
09:00 to 09:59	25.4	29	5.3	88.5%	11.5%	0.0%
10:00 to 10:59	25.1	30	4.8	87.9%	12.1%	0.0%
11:00 to 11:59	24.3	29	5.7	89.3%	10.7%	0.0%
12:00 to 12:59	25.4	32	6.0	80.2%	19.8%	0.0%
13:00 to 13:59	25.3	31	6.0	82.7%	16.3%	1.0%
14:00 to 14:59	25.4	30	6.4	87.5%	11.4%	1.1%
15:00 to 15:59	25.4	31	6.2	82.4%	15.3%	2.3%
16:00 to 16:59	24.9	31	5.0	82.0%	18.0%	0.0%
17:00 to 17:59	25.5	29	4.8	88.9%	11.1%	0.0%
18:00 to 18:59	26.9	32	5.4	79.4%	19.1%	1.5%
19:00 to 19:59	27.1	31	4.3	81.0%	19.0%	0.0%
20:00 to 20:59	29.1	32	4.7	45.5%	54.5%	0.0%
21:00 to 21:59	27.1	32	5.9	68.4%	31.6%	0.0%
22:00 to 22:59	31.1	35	5.4	42.9%	57.1%	0.0%
23:00 to 23:59	23.3	26	3.2	100.0%	0.0%	0.0%

3.3.2. Southbound Mean Speed & 85%ile Speed by Hour of Day Chart.




3.3.3. Southbound Speed Limit Compliance by Hour of Day Chart.

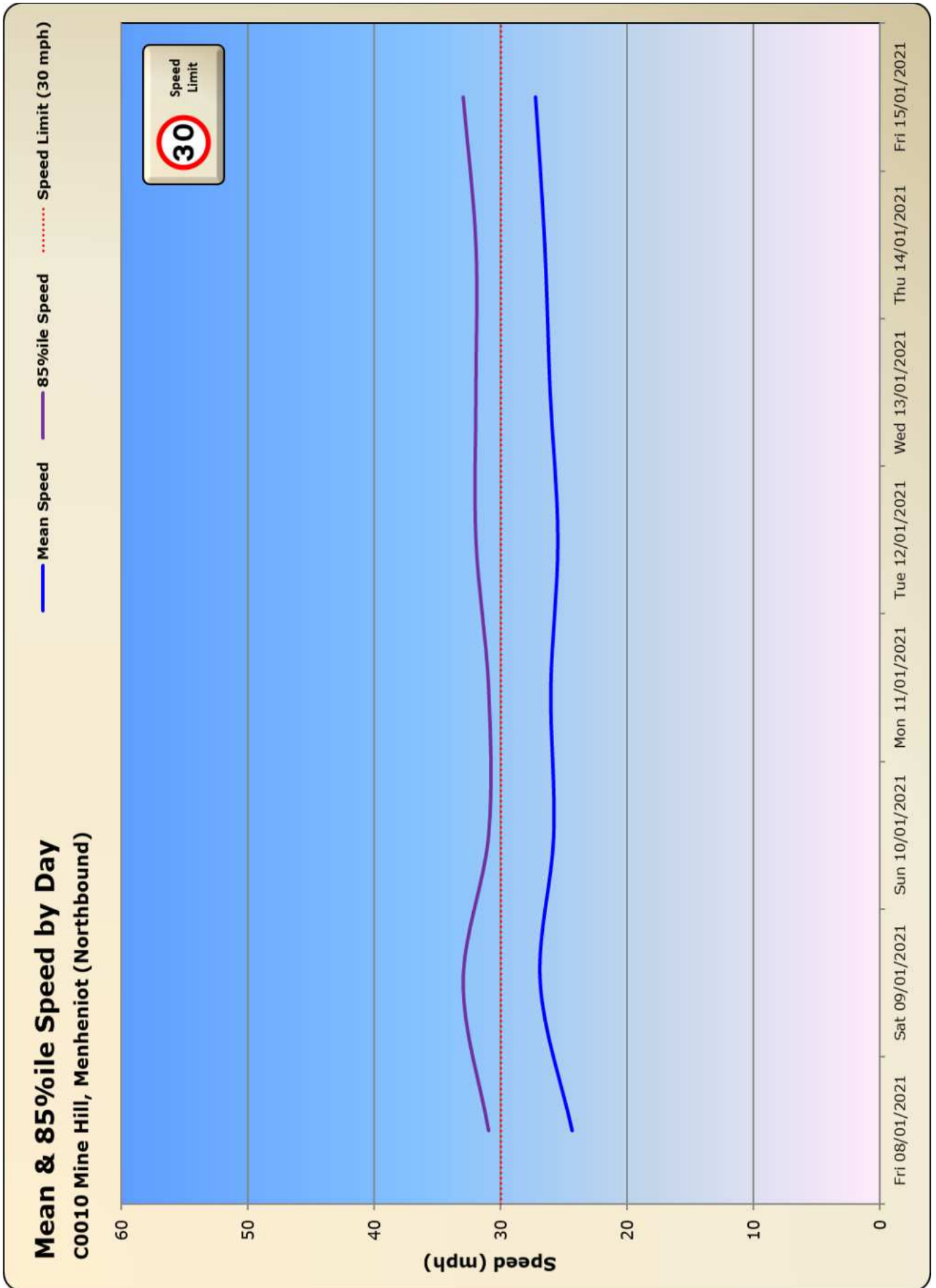


4. Northbound Detailed Statistics.

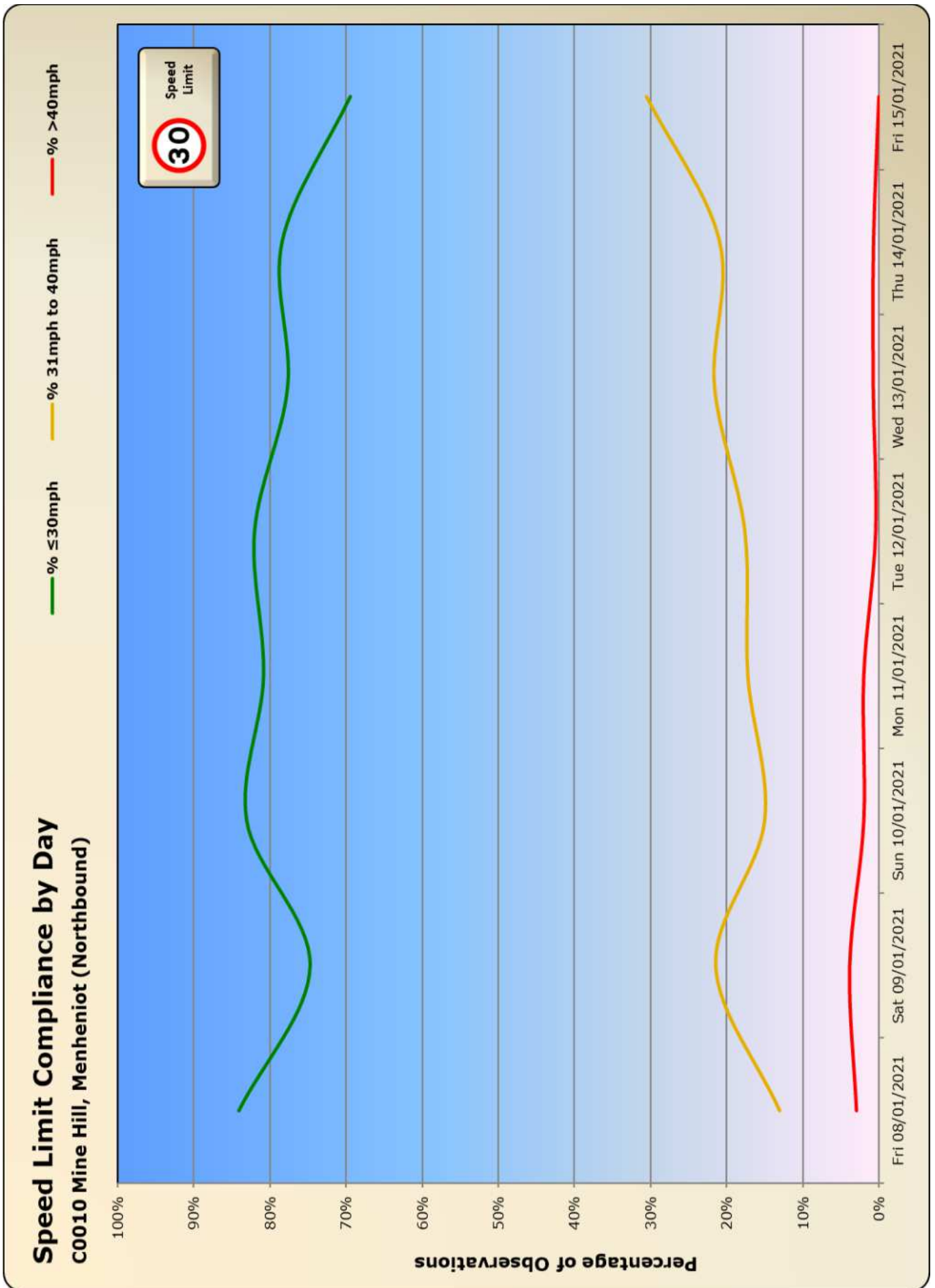
4.1.1. Northbound Daily Summary Table.

Date	Mean Speed	85 th ile Speed	Standard Deviation	$N_e \leq$ 	% 31 mph to 40 mph	% >40 mph
Fri 08/01/2021	24.4	31	7.1	84.0%	13.0%	3.0%
Sat 09/01/2021	26.9	33	6.3	74.7%	21.4%	3.8%
Sun 10/01/2021	25.9	31	5.9	83.0%	15.0%	2.0%
Mon 11/01/2021	26.1	31	5.9	80.8%	17.2%	2.0%
Tue 12/01/2021	25.5	32	5.9	82.0%	17.6%	0.4%
Wed 13/01/2021	26.1	32	6.0	77.7%	21.6%	0.8%
Thu 14/01/2021	26.6	32	5.5	78.4%	20.9%	0.7%
Fri 15/01/2021	27.3	33	5.7	69.5%	30.5%	0.0%

4.1.2. Northbound Mean Speed & 85%ile Speed by Day Chart.



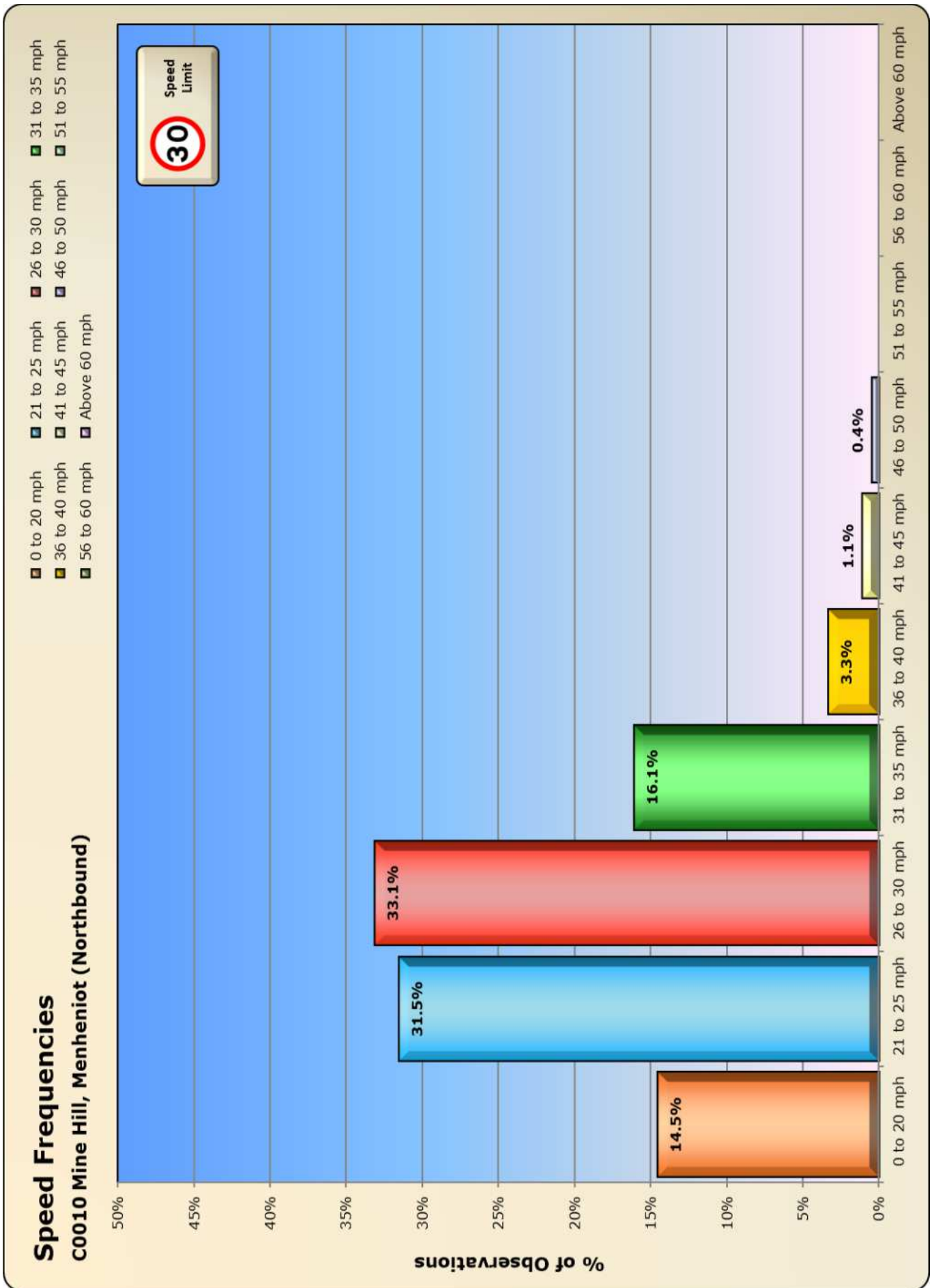
4.1.3. Northbound Speed Limit Compliance by Day Chart.




4.2.1. Northbound Speed Frequencies by Day Table.

Date	No ≤ 30			No > 30							Total
	0 to 20 mph	21 to 25 mph	26 to 30 mph	31 to 35 mph	36 to 40 mph	41 to 45 mph	46 to 50 mph	51 to 55 mph	56 to 60 mph	Above 60 mph	
Fri 08/01/2021	43	45	54	22	0	3	2	0	0	0	169
Sat 09/01/2021	22	58	56	33	6	3	4	0	0	0	182
Sun 10/01/2021	13	38	32	12	3	2	0	0	0	0	100
Mon 11/01/2021	36	89	77	32	11	5	0	0	0	0	250
Tue 12/01/2021	39	73	79	36	5	0	1	0	0	0	233
Wed 13/01/2021	35	81	89	50	7	2	0	0	0	0	264
Thu 14/01/2021	29	92	100	47	12	2	0	0	0	0	282
Fri 15/01/2021	12	20	34	21	8	0	0	0	0	0	95
Total	229	496	521	253	52	17	7	0	0	0	1,575
% of Total	14.5%	31.5%	33.1%	16.1%	3.3%	1.1%	0.4%	0.0%	0.0%	0.0%	100.0%

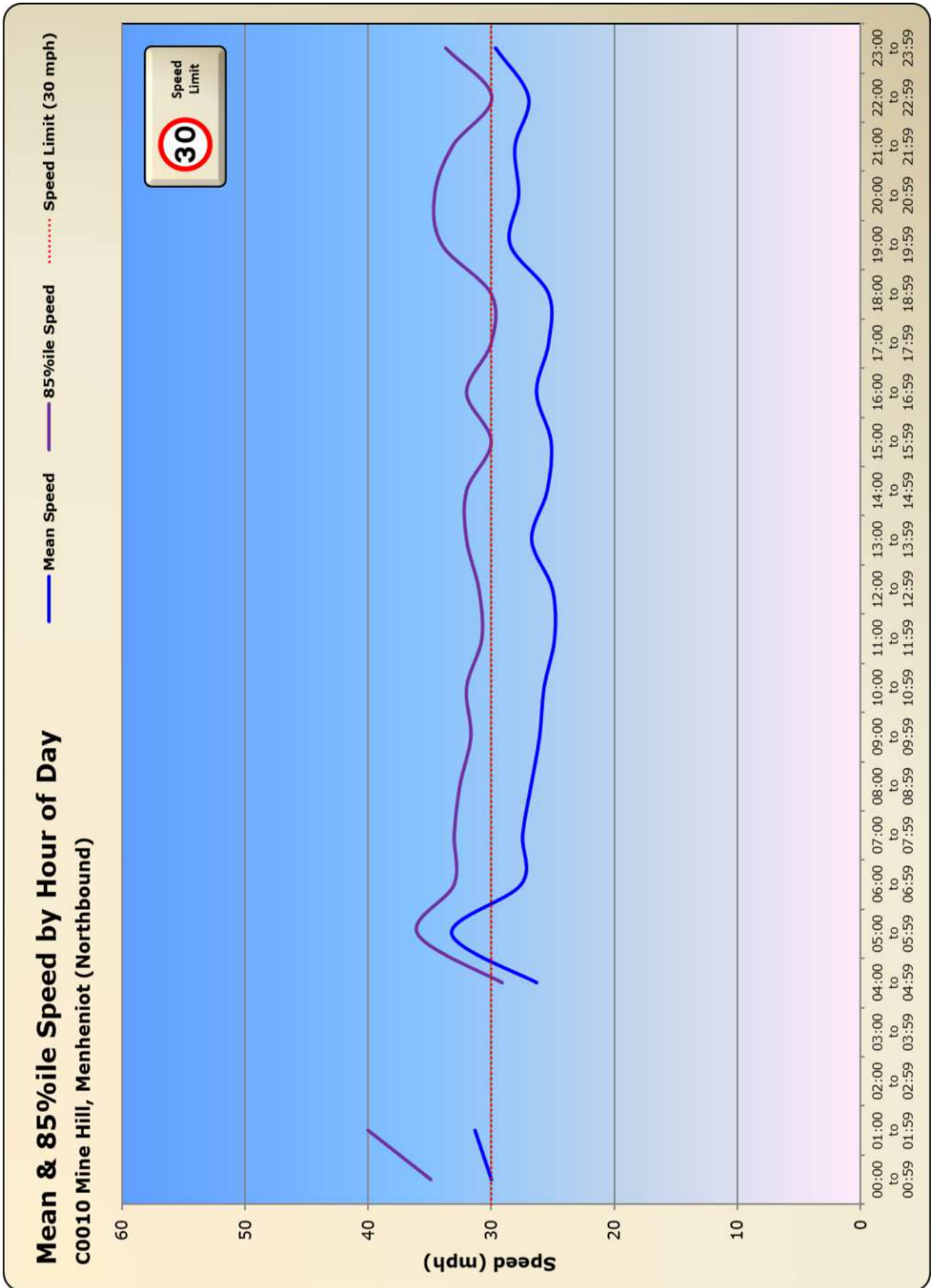
4.2.2. Northbound Speed Frequencies Chart.



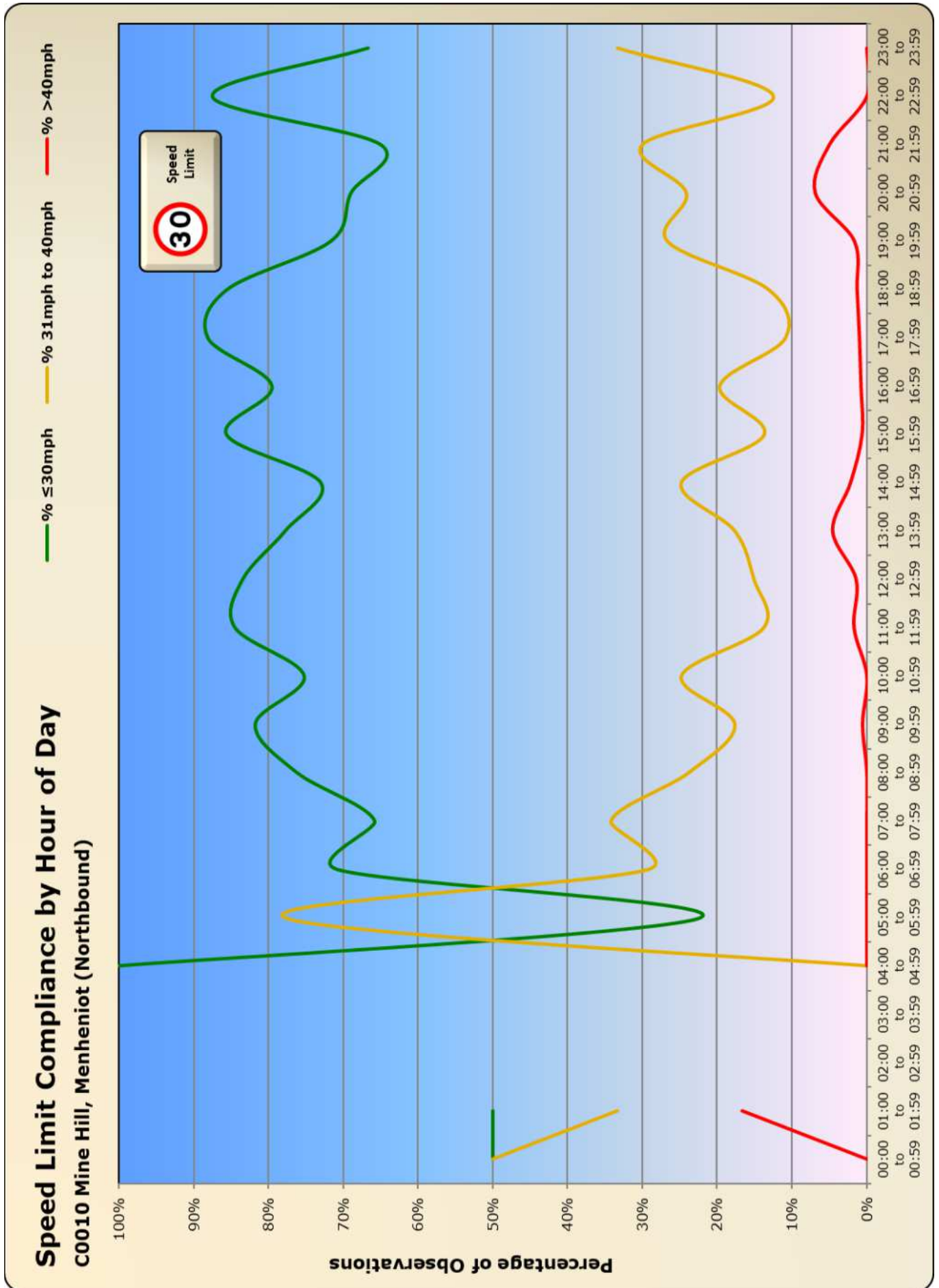
4.3.1. Northbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	$N_e \leq$ 	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	30.0	35	9.9	50.0%	50.0%	0.0%
01:00 to 01:59	31.3	40	9.1	50.0%	33.3%	16.7%
02:00 to 02:59	-	-	-	-	-	-
03:00 to 03:59	-	-	-	-	-	-
04:00 to 04:59	26.3	29	4.0	100.0%	0.0%	0.0%
05:00 to 05:59	33.2	36	3.2	22.2%	77.8%	0.0%
06:00 to 06:59	27.6	33	5.2	70.8%	29.2%	0.0%
07:00 to 07:59	27.5	33	5.1	65.8%	34.2%	0.0%
08:00 to 08:59	26.8	33	5.0	76.2%	23.8%	0.0%
09:00 to 09:59	26.1	32	5.5	81.8%	17.6%	0.6%
10:00 to 10:59	25.7	32	5.9	75.2%	24.8%	0.0%
11:00 to 11:59	24.9	31	6.0	84.5%	13.8%	1.7%
12:00 to 12:59	25.1	31	6.2	83.5%	15.1%	1.4%
13:00 to 13:59	26.7	32	6.7	77.8%	17.6%	4.6%
14:00 to 14:59	25.5	32	7.2	73.0%	24.8%	2.2%
15:00 to 15:59	25.2	30	6.0	85.6%	13.7%	0.7%
16:00 to 16:59	26.4	32	5.8	79.5%	19.7%	0.8%
17:00 to 17:59	25.4	30	5.2	88.1%	10.9%	1.0%
18:00 to 18:59	25.4	30	5.3	85.5%	13.2%	1.3%
19:00 to 19:59	28.5	34	5.5	71.7%	26.7%	1.7%
20:00 to 20:59	27.8	35	7.8	69.0%	24.1%	6.9%
21:00 to 21:59	28.1	33	6.4	65.0%	30.0%	5.0%
22:00 to 22:59	27.0	30	4.8	87.5%	12.5%	0.0%
23:00 to 23:59	29.7	34	6.4	66.7%	33.3%	0.0%

4.3.2. Northbound Mean Speed & 85%ile Speed by Hour of Day Chart.



4.3.3. Northbound Speed Limit Compliance by Hour of Day Chart.





Produced by
Engineering Design Group
Cormac Solutions Ltd



Speed Analysis

RadarClass is part of the
Engineering Design Group
Speed Analysis Programme



View the SpeedVISOR & RadarClass layer on Intranet mapping at

<http://cornwallcouncilintranet.cc.cornwallonline.net/default.aspx?page=1480>

(Cormac and Cornwall Council employees only)

View the locations of all SpeedVISOR and RadarClass deployments since 2002 on an interactive map of Cornwall with an option to view and download speed analysis statistics reports.

**To request a deployment and/or obtain a quote for
SpeedVISOR, RadarClass or Hand-held Radar deployment
please contact**

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