

MONTHLY ENVIRONMENTAL MONITORING REPORT JULY 2023

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1 | INTRODUCTION

This report has been compiled to provide a monthly summary of environmental monitoring results for Hunter Valley Operations (HVO). This report includes all monitoring data collected for the period 1st to 31st July 2023 (the 'Reporting Period').

2 | AIR QUALITY

2.1 | METEOROLOGICAL MONITORING

HVO maintains two meteorological stations: 'HVO Corporate' and 'Cheshunt' (refer to Figure 4).

2.1.1 **RAINFALL**

Rainfall for the period is summarised in Table 1. The 2021, 2022 and 2023 trends are shown in Figure 1.

Table 1 - Rainfall data for the reporting period

Cumulative Rainfall (mm) Monthly Rainfall (mm)

2023 July 9.4 259.8 1200 1000 800 Monthly Rainfall (mm) 600 400 200 FEB MAR APR JUN JUL AUG SEP OCT NOV DEC MAY ■ Monthly Rainfall 2023 Monthly Rainfall 2022 Monthly Rainfall 2021 Cumulative Rainfall 2023 — Cumulative Rainfall 2022 — Cumulative Rainfall 2021

Figure 1 - Rainfall Summary 2023

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2.1.2 | WIND SPEED AND DIRECTION

North-westerly winds were prevailing during the reporting period as shown in Figure 2 (HVO Corporate) and Figure 3 (HVO Cheshunt).

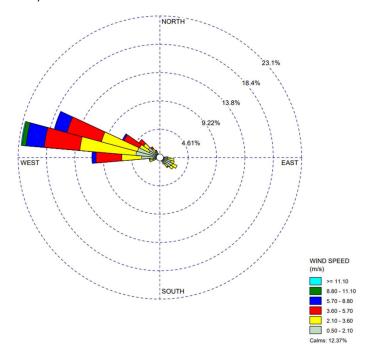


Figure 2 – HVO Corporate Wind Rose for the Reporting Period

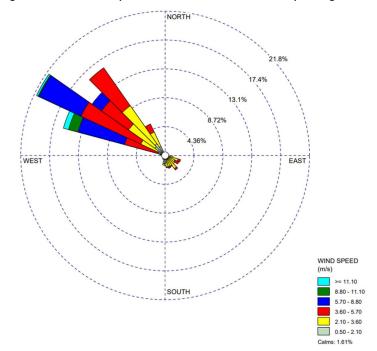


Figure 3 – HVO Cheshunt Wind Rose for the Reporting Period

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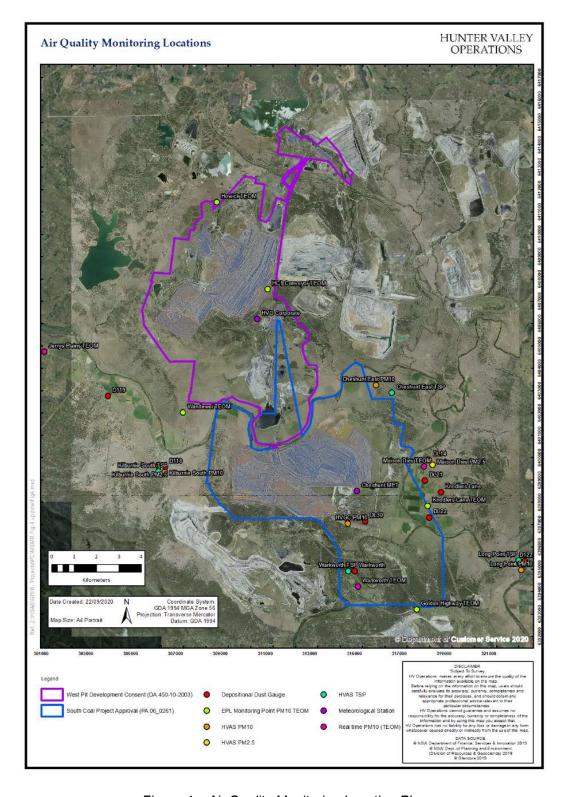


Figure 4 - Air Quality Monitoring Location Plan

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2.2 | DEPOSITIONAL DUST

HVO operates and maintains a network of eleven depositional dust gauges situated on private and mine owned land surrounding HVO to monitor regional air quality.

Figure 5 displays insoluble solids results from depositional dust gauges during the reporting period compared against the annual impact assessment criteria. Any monthly results deemed to be contaminated (due to presence of bird droppings, insects, etc.) are not displayed. An assessment of HVO's contribution against the long-term impact assessment criteria will be provided in the 2023 Annual Review.

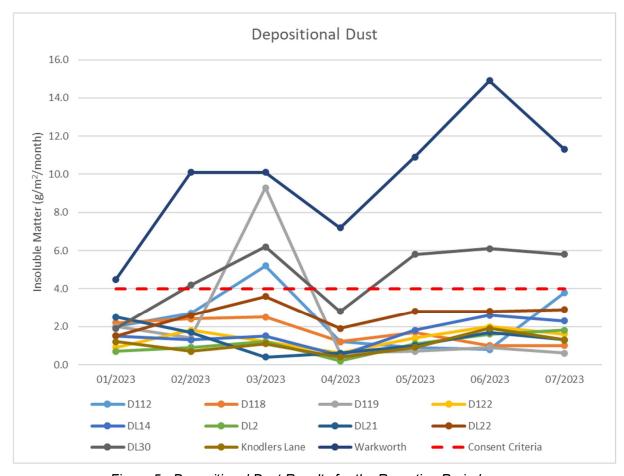


Figure 5 - Depositional Dust Results for the Reporting Period

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2.3 | SUSPENDED PARTICLES

Suspended particles are measured by a network of High Volume Air Samplers (HVAS) measuring Total Suspended Particulates (TSP) and Particulate Matter <10µm (PM10). The Kilburnie South and Maison Dieu HVAS also monitor Particulate Matter <2.5µm (PM2.5). The location of these monitors is presented in Figure 4. Each HVAS runs for 24-hours on a six-day cycle.

2.3.1 | HVAS PM₁₀ RESULTS

2.3.1.1 | PERFORMANCE AGAINST SHORT TERM IMPACT ASSESSMENT CRITERIA

Figure 6 shows individual PM10 results at each monitoring station against the short-term impact assessment criteria of 50µg/m³.

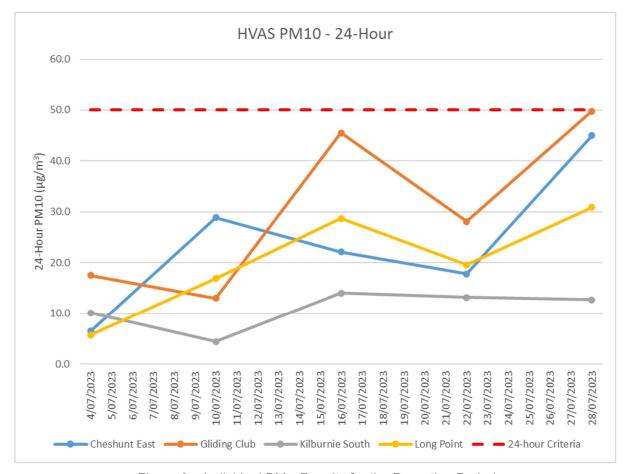


Figure 6 – Individual PM₁₀ Results for the Reporting Period

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2.3.1.2 | PERFORMANCE AGAINST LONG TERM IMPACT ASSESSMENT CRITERIA

Figure 7 shows the year-to-date annual average PM₁₀ results. All monitors were below the relevant long term impact assessment criteria during the reporting period.

An assessment of HVO's contribution against the long-term impact assessment criteria will be provided in the 2023 Annual Review.

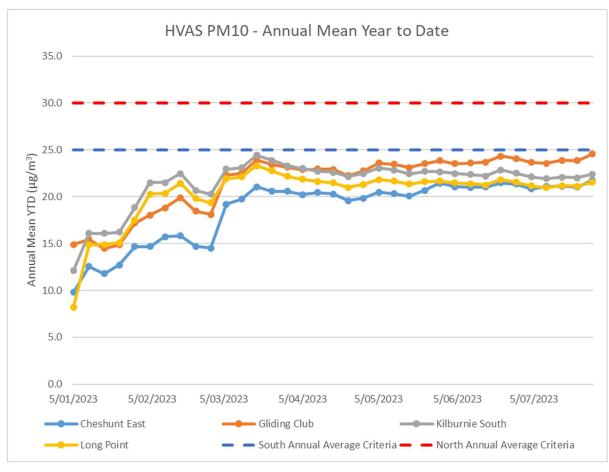


Figure 7 – Year to Date Average PM₁₀ as at end of the Reporting Period

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2.3.2 | HVAS PM_{2.5} RESULTS

HVO monitors PM_{2.5} at two HVAS locations, Kilburnie South and Maison Dieu.

2.3.2.1 | HVAS PM_{2.5} RESULTS

Figure 8 shows individual PM_{2.5} results at each monitoring station against the HVO South short-term impact assessment criteria of 25µg/m³. All monitors were below the relevant short-term impact assessment criteria during the reporting period.

An assessment of HVO's contribution against the long-term impact assessment criteria will be provided in the 2023 Annual Review.

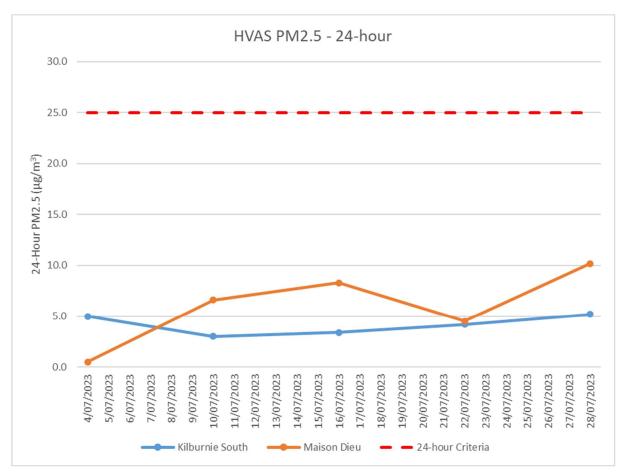


Figure 8 - Results for the Reporting Period

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2.3.2.2 | PERFORMANCE AGAINST LONG TERM IMPACT ASSESSMENT CRITERIA

Figure 9 shows the year-to-date annual average PM_{2.5} results. During the reporting period, the Maison Dieu monitor and Kilburnie South monitor annual average year to date were above the PM_{2.5} Annual Rolling Mean criteria of 8µg/m³.

An assessment of HVO's contribution against the long-term impact assessment criteria will be provided in the 2023 Annual Review.

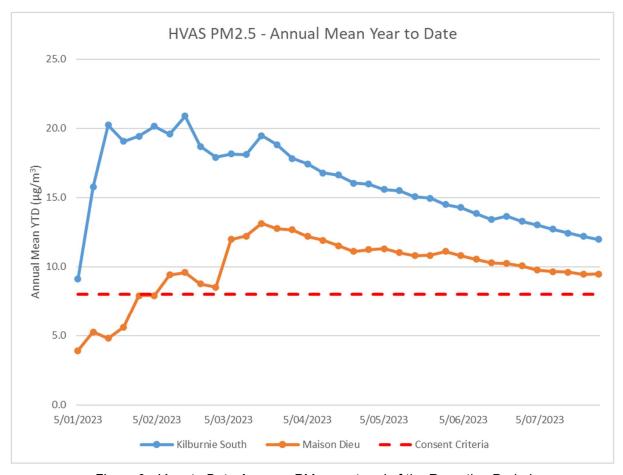


Figure 9 - Year to Date Average PM_{2.5} as at end of the Reporting Period

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2.3.3 | TSP RESULTS

2.3.3.1 | PERFORMANCE AGAINST LONG TERM IMPACT ASSESSMENT CRITERIA

Figure 10 shows the annual average TSP results compared against the long-term impact assessment criteria of 90µg/m3.

All monitors, except for Warkworth, were below the relevant long-term impact assessment criteria during the reporting period.

An assessment of HVO's contribution against the long-term impact assessment criteria will be provided in the 2023 Annual Review.

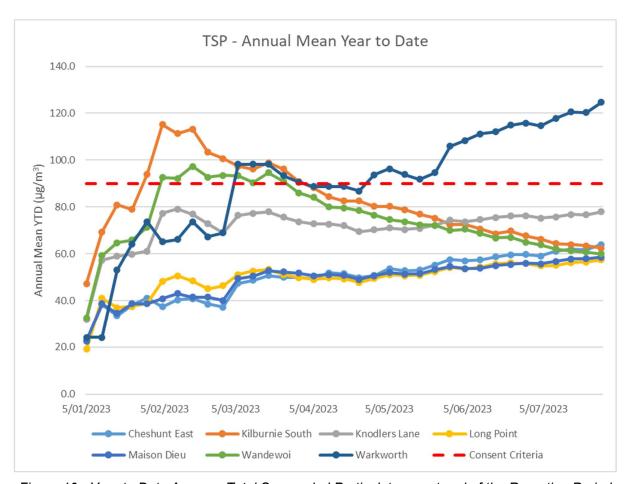


Figure 10 - Year to Date Average Total Suspended Particulates as at end of the Reporting Period

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2.3.4 | REAL TIME PM₁₀ RESULTS

HVO maintains a network of real time PM_{10} monitors. The real time air quality monitoring stations continuously record information and transmit data to a central database, generating alarms when particulate matter levels exceed internal trigger levels. Results from real time PM_{10} monitoring are used as a reactive measure to guide mining operations to help achieve compliance with the relevant conditions of the project approval.

Figure 11 shows the daily 24-hour average PM₁₀ result from the real time monitoring sites. No exceedances were reported during the reporting period.

Figure 12 shows the annual rolling average PM₁₀ results from the real time monitoring sites.

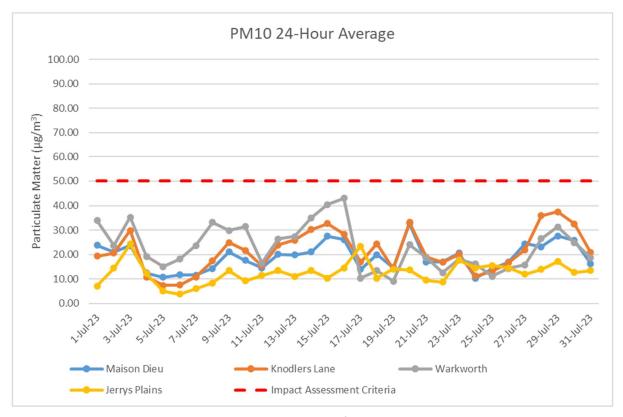


Figure 11 – Real Time PM₁₀ 24hr for the Reporting Period

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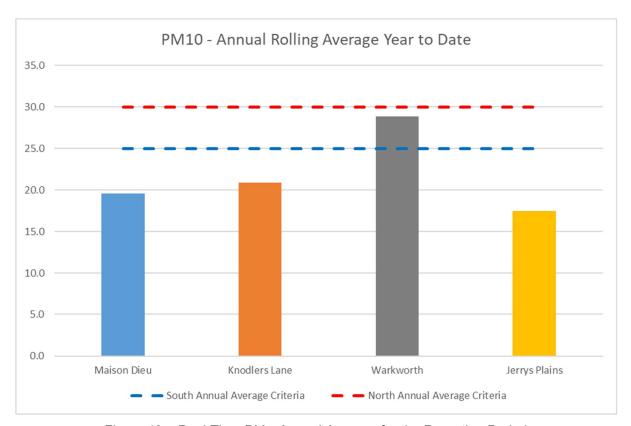


Figure 12 – Real Time PM₁₀ Annual Average for the Reporting Period.

2.3.5 | REAL TIME ALARMS FOR AIR QUALITY

The real time monitoring system generated one hundred and thirteen (113) automated air quality related alarms during the reporting period. Twenty-three (23) alarms related to adverse weather conditions and ninety (90) alarms related to dust conditions.

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3 | WATER QUALITY

HVO maintains a network of surface water and groundwater monitoring sites.

3.1 | SURFACE WATER

Surface watercourses are sampled on a quarterly sampling regime. Water quality is assessed through the parameters of pH, electrical conductivity (EC) and Total Suspended Solids (TSS). The location of surface water monitoring points across HVO is shown in Figure 13.

Results from monitoring on site dams, the Hunter River and other natural tributaries are provided on a quarterly basis. Results will be provided in the September 2023 Monthly Environmental Monitoring Report.

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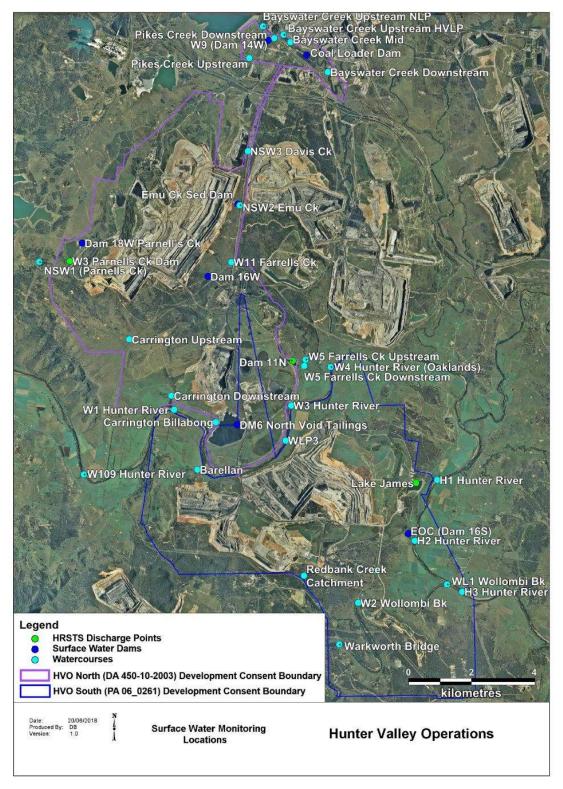


Figure 13 - HVO Surface Water Monitoring Locations

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3.1.1 SURFACE WATER TRIGGER TRACKING

Internal trigger limits have been developed to assess monitoring data on an on-going basis and to highlight potentially adverse surface water impacts. The process for evaluating monitoring results against the internal triggers and subsequent responses are outlined in the HVO Water Management Plan.

Surface water trigger tracking results are provided on a quarterly basis; results will be reported in the September 2023 Monthly Environmental Monitoring Report.

3.2 | SITE WATER USE

HVO is permitted to extract water from the Hunter River under water allocation licenses issued by Water NSW.

HVO did not extract water from the Hunter River during the reporting period.

3.3 | HRSTS DISCHARGE

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HVO participates in the Hunter River Salinity Trading Scheme (HRSTS), allowing discharge from licensed discharge points Dam 11N (to Farrell's Creek), Lake James (to the Hunter River) and Parnell's Dam (to Parnell's Creek). Discharges can only take place subject to HRSTS regulations.

HVO did not undertake any HRSTS discharges during the reporting period.

3.4 | GROUNDWATER MONITORING RESULTS

Groundwater monitoring is undertaken on a quarterly basis in accordance with the HVO Water Management Plan and Groundwater Monitoring Programme. The location of groundwater monitoring points across HVO are show in Figure 14.

Groundwater monitoring results are provided on a quarterly basis. Results will be provided in the September 2023 Monthly Environmental Monitoring Report.

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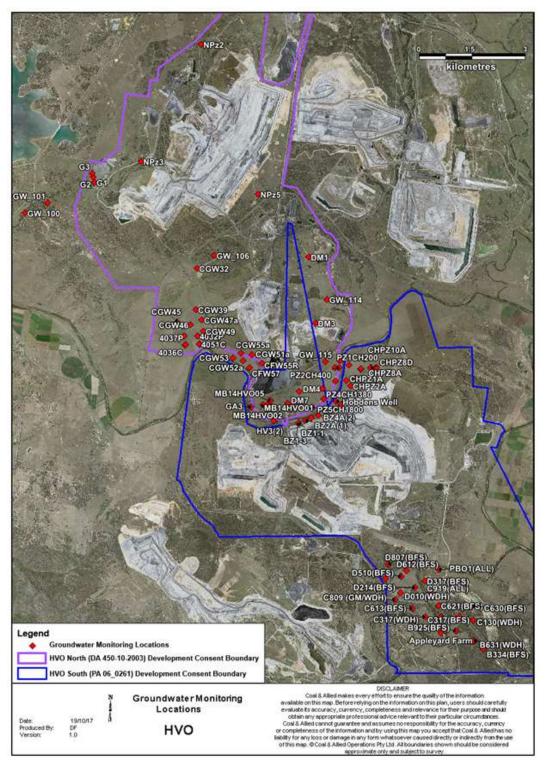


Figure 14 - Groundwater Monitoring Locations at HVO

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3.4.1 | GROUNDWATER TRIGGER TRACKING

Internal trigger limits have been developed to assess monitoring data on an on-going basis and to highlight potentially adverse groundwater impacts. The process for evaluating monitoring results against the internal triggers and subsequent responses is outlined in the HVO Water Management Plan.

Groundwater trigger tracking results are provided on a quarterly basis. Results will be provided in the September 2023 Monthly Environmental Monitoring Report.

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4 | BLASTING

HVO maintains a network of blast monitoring units located at nearby privately owned residences and function as regulatory compliance monitors. The location of these monitors can be found in Figure 15. Blasting criteria for HVO are summarised in Table 2.

Table 2 – Blasting Criteria

Airblast Overpressure (dBL)	Comments					
115	5% of the total number of blasts in a 12-month period					
120	0% of blasts					
Ground Vibration (mm/s)	Comments					
_	5% of the total number of blasts in a 12-month period					
5	5% of the total number of blasts in a 12-month period					

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4.1 | BLAST MONITORING RESULTS

Twenty (20) blasts were initiated at HVO during the reporting period. Blast monitoring results for the period are shown in Table 3 and Table 4.

Table 3 – Overpressure Blast Monitoring Results for the reporting period

Date and Time	Moses Crossing (dBL)	Jerrys Plains Village (dBL)	Maison Dieu (dBL)	Warkworth (dBL)	Knodlers Lane (dBL)
1/07/2023 13:07	94.83	109.61	101.44	108.29	106.38
3/07/2023 13:20	84.44	82.98	81.44	83.04	81.94
3/07/2023 13:22	89.23	92.83	86.20	96.26	90.64
5/07/2023 13:06	93.83	112.31	98.49	101.94	110.06
5/07/2023 15:20	98.76	104.05	114.05	92.09	105.52
6/07/2023 10:36	93.75	101.13	98.06	96.20	102.07
6/07/2023 14:20	106.74	103.88	101.14	93.17	98.88
10/07/2023 13:16	109.21	102.73	113.41	104.82	105.91
11/07/2023 13:04	82.22	87.51	84.08	85.74	91.16
11/07/2023 13:19	95.96	94.13	90.04	85.77	88.43
11/07/2023 13:21	91.29	97.35	88.17	96.00	86.69
14/07/2023 13:16	88.71	88.02	91.28	91.16	99.75
17/07/2023 13:44	89.54	85.16	94.44	92.83	91.83
17/07/2023 16:45	98.89	89.77	91.79	96.39	100.41
19/07/2023 13:05	94.72	91.89	96.81	97.90	103.84
20/07/2023 12:59	91.63	101.41	100.24	97.02	106.77
22/07/2023 13:09	85.13	93.94	89.67	92.75	94.76
24/07/2023 13:20	99.96	89.95	88.89	96.80	93.11
24/07/2023 15:34	90.67	86.76	92.69	82.01	89.35
26/07/2023 15:57	92.97	82.51	92.17	97.35	101.44

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Table 4 – Ground Vibration Blast Monitoring Results for the reporting period

Date and Time	Moses Crossing (mm/s)	Jerrys Plains Village (mm/s)	Maison Dieu (mm/s)	Warkworth (mm/s)	Knodlers Lane (mm/s)
1/07/2023 13:07	0.09	0.03	0.04	0.03	0.11
3/07/2023 13:20	0.12	0.13	0.08	0.12	0.12
3/07/2023 13:22	0.1	0.08	0.06	0.75	0.12
5/07/2023 13:06	0.11	0.06	0.06	0.21	0.11
5/07/2023 15:20	0.09	0.02	0.03	0.58	0.11
6/07/2023 10:36	0.15	0.20	0.06	0.65	0.15
6/07/2023 14:20	0.09	0.02	0.03	0.37	0.12
10/07/2023 13:16	0.08	0.03	0.05	0.53	0.11
11/07/2023 13:04	0.09	0.09	0.05	0.10	0.12
11/07/2023 13:19	0.18	0.19	0.17	0.13	0.20
11/07/2023 13:21	0.09	0.04	0.05	0.60	0.12
14/07/2023 13:16	0.08	0.05	0.05	0.16	0.12
17/07/2023 13:44	0.12	0.04	0.18	0.83	0.20
17/07/2023 16:45	0.09	0.03	0.15	0.20	0.14
19/07/2023 13:05	0.31	0.10	0.14	0.36	0.16
20/07/2023 12:59	0.1	0.07	0.07	0.09	0.10
22/07/2023 13:09	0.19	0.16	0.18	0.56	0.15
24/07/2023 13:20	0.34	0.09	0.10	0.60	0.14
24/07/2023 15:34	0.08	0.03	0.04	0.12	0.11
26/07/2023 15:57	0.08	0.03	0.05	0.22	0.10

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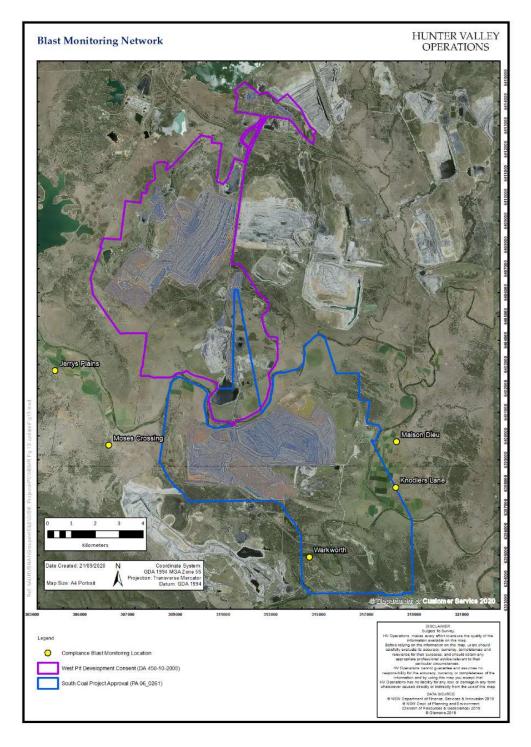


Figure 15 - Blast Monitoring Location Plan

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5 | NOISE

Routine attended noise monitoring occurs at defined locations around HVO, as described in the HVO Noise Monitoring Programme. The noise monitoring aims to quantify and describe the acoustic environment around the site and compare results with specified limits. The attended noise monitoring locations are displayed in Figure 16.

5.1 | ATTENDED NOISE MONITORING RESULTS

Attended monitoring was conducted at receiver locations around HVO during the night periods of the 13th (Kilburnie South, Jerrys Plains East and Jerrys Plains Village), 26th (all) and 31st (Long Point /Dights Crossing) of July 2023.

Compliance with the HVO noise impact limits ensures compliance with the land acquisition criteria. Therefore, since no noise impact exceedances occurred for the reporting period the land acquisition assessment has not been presented. These will only be reported in instances of noise impact exceedances.

Monitoring results are detailed in Table 5 and Table 6.

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Table 5 - LAeq,15minute and 1minute HVO North Against Impact Assessment Criteria for the Reporting Period

		W	ind			HVO North lin	nits, dB ¹	HVO North lev	els, dB	Exceedance	es, dB
Location	Start date and time	Speed m/s	Direction ³	Stability class	Very enhancing? 1	L _{Aeq,15minute}	L _{A1,1min}	LAeq,15minute ²	L _{A1,1min}	L _{Aeq,15} minute	L _{A1,1mi} n
Shearers Lane	26/07/2023 21:00	0.5	142	F	Yes	35	46	IA	IA	Nil	Nil
Knodlers Lane	26/07/2023 21:43	1.8	216	Е	Yes	35	46	IA	IA	Nil	Nil
Maison Dieu	26/07/2023 21:20	1.0	163	F	Yes	35	46	IA	IA	Nil	Nil
Long Point (Dights Crossing)	31/07/2023 22:00	2.9	283	E	Yes	35	46	IA	IA	Nil	Nil
Kilburnie South	26/07/2023 22:56	1.0	246	F	Yes	39	46	IA	IA	Nil	Nil
Jerrys Plains East	26/07/2023 21:28	2.2	215	D	Yes	39	46	<30	<30	Nil	Nil
Jerrys Plains Village	26/07/2023 21:04	0.5	142	F	Yes	40	46	<25	28	Nil	Nil
Jerrys Plains West	26/07/2023 21:23	2.2	215	D	Yes	40	46	<25	<25	Nil	Nil
*Kilburnie South	13/07/2023 21:00	0.5	314	F	Yes	39	46	IA	IA	Nil	Nil
*Jerrys Plains East	13/07/2023 21:22	1.6	253	D	Yes	39	46	IA	IA	Nil	Nil
*Jerrys Plains Village	13/07/2023 21:43	1.5	266	D	Yes	40	46	IA	IA	Nil	Nil

^{1.} Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.

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^{2.} Site-only LAeq,15minute, includes modifying factor penalties if applicable.

Degrees magnetic north, "-" indicates calm conditions.

^{*} Condition 10.(e) of the HVO North consent requires a minimum of four days of attended monitoring per quarter. An additional round of monitoring occurs once per quarter at the Jerrys Plains East, Jerrys Plains Village, and Kilburnie South monitoring locations to satisfy this requirement.



Table 6 - LAeq, 15minute and 1minute HVO South Against Impact Assessment Criteria for the Reporting Period

		Wind				HVO South limits, dB ¹		HVO South levels, dB		Exceedances, dB	
Location	Start date and time	Speed m/s	Direction ³	Stability class	Very enhancing? 1	L _{Aeq,15} minute	L _{A1,1min}	L _{Aeq,15} minute ²	L _{A1,1min}	L _{Aeq,15minute}	L _{A1,1mi}
Shearers Lane	26/07/2023 21:00	2.8	181	D	Yes	41	45	29	32	Nil	Nil
Knodlers Lane	26/07/2023 21:43	2.8	276	F	Yes	40	45	<25	<25	Nil	Nil
Maison Dieu	26/07/2023 21:20	2.8	195	E	Yes	39	45	<25	<25	Nil	Nil
Long Point (Dights Crossing)	31/07/2023 22:00	2.8	306	D	No	NA	NA	IA	IA	NA	NA
Kilburnie South	26/07/2023 22:56	2.8	333	F	Yes	39	45	<30	35	Nil	Nil
Jerrys Plains East	26/07/2023 21:28	2.8	224	F	Yes	38	45	IA	IA	Nil	Nil
Jerrys Plains Village	26/07/2023 21:04	2.8	181	D	Yes	35	45	IA	IA	Nil	Nil
Jerrys Plains West	26/07/2023 21:23	2.8	224	F	Yes	35	45	IA	IA	Nil	Nil
HVGC	26/07/2023 21:01	2.8	181	D	Yes	55	NA	NM	NM	Nil	Nil

^{1.} Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.

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^{2.} Site-only LAeq,15minute, includes modifying factor penalties if applicable.

^{3.} Degrees magnetic north, "-" indicates calm conditions.



5.2 | LOW FREQUENCY ASSESSMENT

In accordance with the requirements of the EPA's Noise Policy for Industry (NPfI), the applicability of the low frequency modification penalty has been assessed. No penalties were applied for monitoring undertaken through the reporting period. The assessments for the low frequency noise are shown in Table 7 and Table 8.

Table 7 - Modifying Factor Assessment HVO North for the Reporting Period

Location	Start date and time	Measured HVO South L _{Aeq} dB	Very enhancing?	Intermittency modifying factor?	Tonality modifying factor?	Frequency of tonality	Low- frequency modifying factor? 1,2	Exceedance of reference spectrum ^{2,3}	Total penalty dB ^{2,3}
Shearers Lane	26/07/2023 21:00	IA	Yes	No	No	NA	No	NA	Nil
Knodlers Lane	26/07/2023 21:43	IA	Yes	No	No	NA	No	NA	Nil
Maison Dieu	26/07/2023 21:20	IA	Yes	No	No	NA	No	NA	Nil
Long Point (Dights Crossing)	31/07/2023 22:00	IA	Yes	No	No	NA	No	NA	Nil
Kilburnie South	26/07/2023 22:56	IA	Yes	No	No	NA	No	NA	Nil
Jerrys Plains East	26/07/2023 21:28	<30	Yes	No	No	NA	No	NA	Nil
Jerrys Plains Village	26/07/2023 21:04	<25	Yes	No	No	NA	No	NA	Nil
Jerrys Plains West	26/07/2023 21:23	<25	Yes	No	No	NA	No	NA	Nil
*Kilburnie South	13/07/2023 21:00	IA	Yes	No	No	NA	No	NA	Nil
*Jerrys Plains East	13/07/2023 21:22	IA	Yes	No	No	NA	No	NA	Nil
*Jerrys Plains Village	13/07/2023 21:43	IA	Yes	No	No	NA	No	NA	Nil

^{1.} Low-frequency modifying factors are not applicable during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.

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^{2.} NA denotes 'not applicable'.

^{3.} Bold results indicate that application of NPfl modifying factor(s) is required.

^{*} Condition 10.(e) of the HVO North consent requires a minimum of four days of attended monitoring per quarter. An additional round of monitoring occurs once per quarter at the Jerrys Plains East, Jerrys Plains Village, and Kilburnie South monitoring locations to satisfy this requirement



Table 8 - Modifying Factor Assessment HVO South for the Reporting Period

Location	Start date and time	Measured HVO South LAeq dB	Very enhancing?	Intermittency modifying factor?	Tonality modifying factor?	Frequency of tonality	Low- frequency modifying factor? 1,2	Exceedance of reference spectrum 2,3	Total penalty dB 2,3
Shearers Lane	26/07/2023 21:00	29	Yes	No	No	NA	No	NA	Nil
Knodlers Lane	26/07/2023 21:43	<25	Yes	No	No	NA	No	NA	Nil
Maison Dieu	26/07/2023 21:20	<25	Yes	No	No	NA	No	NA	Nil
Long Point (Dights Crossing)	31/07/2023 22:00	IA	No	NA	NA	NA	NA	NA	Nil
Kilburnie South	26/07/2023 22:56	<30	Yes	No	No	NA	No	NA	Nil
Jerrys Plains East	26/07/2023 21:28	IA	Yes	No	No	NA	No	NA	Nil
Jerrys Plains Village	26/07/2023 21:04	IA	Yes	No	No	NA	No	NA	Nil
Jerrys Plains West	26/07/2023 21:23	IA	Yes	No	No	NA	No	NA	Nil
HVGC	26/07/2023 21:01	NM	Yes	No	No	NA	No	NA	Nil

^{1.} NA denotes 'not applicable'

5.3 | REAL TIME NOISE MONITORING

HVO utilises a network of real-time directional noise monitors to manage noise impacts on a continuous basis, shown in Figure 16. Noise alarms are in place at five monitoring locations (Knodlers Lane, Maison Dieu, Jerrys Plains, Moses Crossing, and Long Point) which alert HVO staff to elevated noise levels that require investigation.

HVO investigates and responds to noise alarms with appropriate modification to operations. Changes in response to a noise alarm can include replacing equipment with alternative units, changing or relocating tasks, or shutting down equipment. It should be noted that this assessment does not compliment or conflict with attended noise monitoring detailed in Section 5.1 |. Real time monitoring data includes non-mine noise sources such as animals, road traffic and weather.

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^{2.} NM denotes 'not measurable'

^{3.} Bold results indicate that application of NPfI modifying factor/s is required $\,$



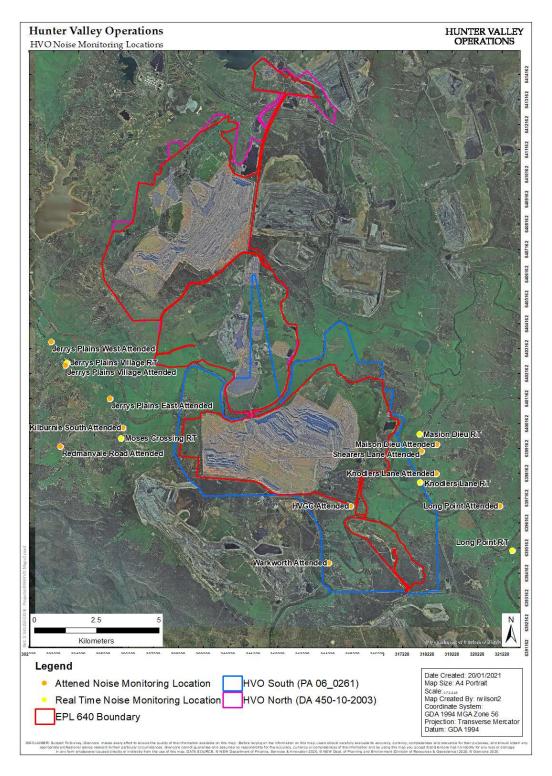


Figure 16 - Noise Monitoring Location Plan

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6 | OPERATIONAL DOWNTIME

A total of 92.3 hours of equipment downtime was logged in response to real time monitoring and inspections for environmental factors such as noise and dust during the reporting period. Operational downtime by equipment type is show in Figure 17. Note that these delays are instances where operations were completely stopped and does not include occasions where operations were changed/modified but not stopped (e.g. changed from exposed dump to in-pit dump).

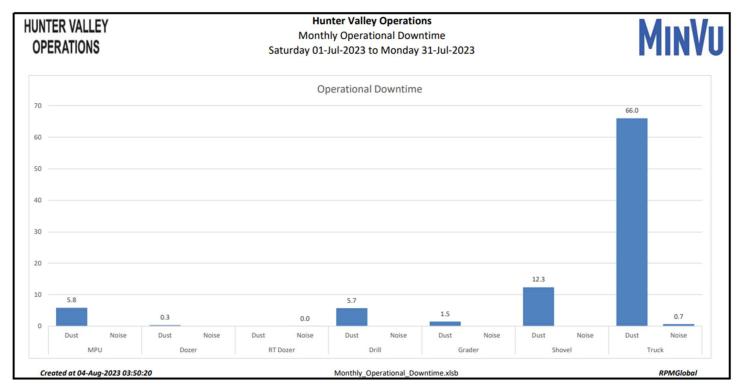


Figure 17 - Operational Downtime by Equipment Type for the Reporting Period

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REHABILITATION

The following activities related to rehabilitation were completed during the reporting period:

- 8.17 Ha of land was reshaped;
- 8.17 Ha of land was released (became available for the application of topsoil);
- 13.77 Ha of land was topsoiled; and
- 0.00 Ha of land was rehabilitated.

Year to date progress is shown in Figure 18.

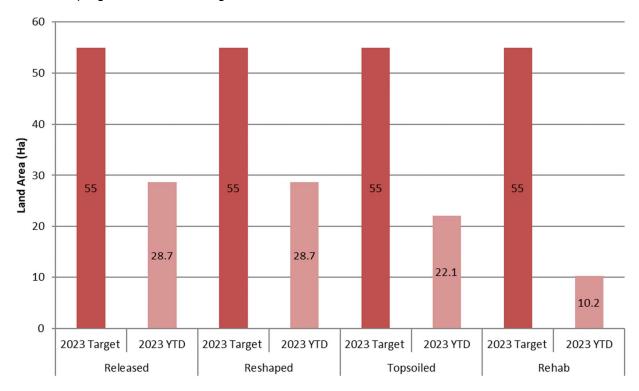


Figure 18 - Rehabilitation YTD May 2023

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8 | COMPLAINTS

Two complaints were received during the reporting period. Details of complaints received during 2023 are shown in Table 9.

Table 9 - Complaints Summary 2023

Hotline at 12.06am regarding a lighting complaint, comment that "light from HVO was shining directly into their house keeping their family awake". The OCE contacted the complainant at 12:27am and shutch the lighting plant identified to be causing the disturbance. The lighting plant identified by the complainant.	Complaint Number	Date	Time	Complainant ID	Nature of Complaint	Mode of Complaint	Brief Description and Response					
Hotline at 12.06am regarding a lighting complaint, comment that "light from HVO was shining directly into their house keeping their family awake". The OCE contacted the complainant at 12:27am and shutch the lighting plant identified to be causing the disturbance. The lighting plant identified by the complainant.	No community complaints were received in January.											
found that the light from the lighting plant was likely to be very from the complainant's location. Process changes have be	1	1 February	12:06am	1	Lighting	Community Hotline	 Hotline at 12.06am regarding a lighting complaint, commenting that "light from HVO was shining directly into their house keeping their family awake". The OCE contacted the complainant at 12:27am and shutdown the lighting plant identified to be causing the disturbance. This was verified by the complainant. An internal investigation conducted following the complaint found that the light from the lighting plant was likely to be visible from the complainant's location. Process changes have been made as a result of the complaint to close the identified gap in 					

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Complaint Number	Date	Time	Complainant ID	Nature of Complaint	Mode of Complaint	Brief Description and Response
2	11 April	7:11am	2	Traffic	Community Hotline	 A member of the public was driving east along Golden Highway near the entrance to HVO South, when a train of four cars pulled out in front of them. The complainant reported that the last car to pull out failed to give way to them which forced them to take evasive action to prevent a collision. An internal investigation conducted following the complaint identified the driver of the vehicle. The employees supervisor notified them of the complaint and the importance of safe driving practices when travelling to and from site. A sitewide communications went out to HVO employees stating the importance of safe driving practices.
3	29 April	1:40pm	1	Dust	Community Hotline	 A complainant from Long Point made a complaint about dust following a blast fired at 1.30 pm from HVO. The OCE contacted the complainant who asked what was going on to create the dust he saw, the OCE advised that a blast had just taken place. The blast was fired in accordance with HVO blasting permissions. The wind direction and wind speed at the time of the blast was 2.7m/s and 268 degrees respectively.

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Complaint Number	Date	Time	Complainant ID	Nature of Complaint	Mode of Complaint	Brief Description and Response
4	1 June	11:28pm	3	Blast fume	Community Hotline	 A blast fume complaint was received by a complainant who wished to remain anonymous at 11:28pm on 1/6/2023 following a blast fired at 1.18pm earlier that day in West Pit. The complainant described the blast as "disgraceful" and also voiced their concern about roads being closed off and the impacts associated with blast fume. A review of the camera footage confirmed a fumy blast which was reviewed and investigated by the Drill & Blast team. The wind direction and wind speed at the time of the blast was 5.6m/s and 264 degrees. Blast fume travelled from WN47LLD02/03A post ignition across HC1 conveyor road and towards Ravensworth Open Cut where it dissipated. Pre-blast environmental assessment ranked the fume and dust risk as possible, and the blast was fired in accordance with blasting permissions for wind speed and direction.
5	10 June	1:09pm	4	Blast dust	Community Hotline	 A complainant called the HVO Hotline at 1:09pm on 10/6/2023 following a blast in Cheshunt Pit at 12:56pm. The complainant was annoyed that dust from the blast had blown towards them. A review of camera footage of the blast fired confirmed that a dust plume did travel in the direction of the complainant, no fume was observed. The dust plume was not excessive; however it was observed to travel lower to the ground before dispersing. The nearest real-

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Complaint Number	Date	Time	Complainant ID	Nature of Complaint	Mode of Complaint	Brief Description and Response		
						time air quality monitor (Warkworth) recorded a maximum of 21 ug/m3 in the hour following the blast against a criteria of 50 ug/m3.		
						The wind direction and wind speed at 12:55pm was 4.3m/s and 314 degrees. Pre-blast environmental assessment ranked the fume and dust risk as unlikely and blast was fired in accordance with blasting permissions for wind speed and direction.		
6	10 July	9:34pm	1	Lighing	Community Hotline	A resident of Long Point called the Community Complaints Hotline at 9:34pm regarding a light shining directly into their house.		
						The lighting plant identified as causing the disturbance was tilted downwards and checked via a phone call by OCE with the complainant, but light was still visible by the complainant. The same lighting plant was then turned off. The disturbance experienced by the complainant was again checked by OCE via a phone call, which verified the disturbance to the complainant had ceased.		
						An internal investigation conducted following the complaint found that lighting tower operational practices should be reviewed and updated.		
7	27 July	5 – 6pm	5	Traffic	Community Hotline	A member of the public reported that whilst driving west along the Golden Highway between 5 and 6 pm, another vehicle – a twin-cab utility – began to tailgate their vehicle (< half a car		

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Complaint Number	Date	Time	Complainant ID	Nature of Complaint	Mode of Complaint	Brief Description and Response		
						 length). Between the eastern entry to HVO South and Comleroi Road (HVO Souths western entry) the offending vehicle sounded their horn more than once, flashed their high beam lights more than once as well as attempted to overtake on one occasion. When the vehicle attempted to overtake, oncoming traffic forced it to resume its original position. The member of the public reported that the offending vehicle turned off in to Comleroi Road. They reported the incident to Singleton Police. An internal investigation resulted in a site-wide presentation about the importance of road safety whilst travelling to and from site being undertaken at daily HCOMs. 		

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9 | ENVIRONMENTAL INCIDENTS

There were no reportable environmental incidents during the reporting period.

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APPENDIX A: METEOROLOGICAL DATA

Date	Air Temp Max (°C)	Air Temp Min (°C)	Relative Humidity (Max %)	Relative Humidity (Min %)	Solar Radiation Maximum (W/Sq. M)	Average Wind Direction (°)	Average Wind Speed (m/sec)	Rainfall (mm)
1/07/2023	15.34	5.31	69.72	39.94	534.6	297.2	5.04	0
2/07/2023	16.27	7.23	74.79	45.17	691.4	298.0	3.84	0
3/07/2023	16.68	4.45	84.40	41.08	640.1	181.9	1.37	0
4/07/2023	14.86	5.69	93.10	61.27	442.6	171.4	1.26	0
5/07/2023	12.29	9.43	96.40	88.60	195.5	128.6	0.26	0
6/07/2023	18.19	10.63	96.30	55.01	872.0	279.1	4.50	0
7/07/2023	14.74	9.09	86.50	54.67	847.0	291.3	3.56	0
8/07/2023	15.80	8.48	76.79	42.60	820.0	286.2	5.44	0
9/07/2023	16.45	8.82	72.74	31.34	560.3	285.0	6.50	0
10/07/2023	16.43	9.86	63.52	39.48	629.9	289.0	5.59	0
11/07/2023	17.84	7.05	79.78	38.45	571.0	288.4	3.44	0
12/07/2023	16.70	4.28	81.90	36.31	580.3	272.6	2.11	0
13/07/2023	17.82	2.26	90.70	37.56	570.1	210.3	0.75	0
14/07/2023	20.15	4.94	83.50	31.70	577.6	271.3	2.27	0
15/07/2023	20.86	6.94	71.50	33.58	576.0	287.9	3.50	0
16/07/2023	21.32	9.45	71.80	30.09	755.3	283.9	3.75	0
17/07/2023	18.81	9.75	91.90	45.89	842.0	180.5	1.99	0
18/07/2023	19.27	9.92	95.60	49.06	754.2	112.4	1.40	0
19/07/2023	20.53	7.66	95.80	40.43	863.0	267.9	2.39	0
20/07/2023	16.87	5.62	85.20	25.23	589.8	211.3	1.75	0
21/07/2023	17.76	1.87	81.50	22.17	731.4	277.6	2.61	0
22/07/2023	17.04	7.98	66.17	34.20	725.8	264.3	2.98	0
23/07/2023	16.34	4.13	75.52	32.19	567.0	223.1	1.08	0
24/07/2023	16.51	1.68	84.20	47.46	905.0	190.4	1.21	0
25/07/2023	16.83	7.66	94.60	51.43	716.1	135.2	0.85	0
26/07/2023	18.00	5.10	96.30	44.60	694.2	187.5	1.07	0
27/07/2023	19.71	4.90	95.20	37.83	598.2	241.3	1.16	0
28/07/2023	20.66	5.39	85.30	33.30	601.7	254.2	1.08	0
29/07/2023	21.99	8.58	67.37	31.57	969.0	275.5	3.29	0
30/07/2023	23.96	11.82	64.81	31.08	842.0	275.1	2.35	0
31/07/2023	22.39	12.57	71.77	38.11	886.0	275.2	3.68	0

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