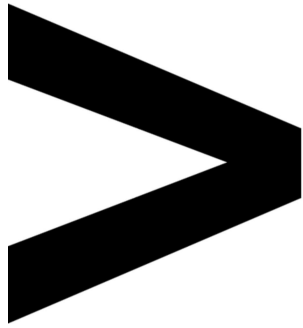




**HUNTER VALLEY**  
OPERATIONS

**ENVIRONMENT  
PROTECTION LICENCE 640  
MONITORING DATA -  
SEPTEMBER**

**DOCUMENT NUMBER**

HVOOC-1797567310-5052

**STATUS**

Approved

**VERSION**

1.0

**EFFECTIVE**

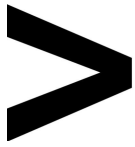
29/10/2024

**REVIEW**

[Planned Review Date]

**OWNER**

Superintendent - Environment and Community



## ~~MONITORING DATA - SEPTEMBER~~

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|   |                                              |    |
|---|----------------------------------------------|----|
| 1 | Overview .....                               | 3  |
| 2 | Definitions .....                            | 3  |
| 3 | Air Quality .....                            | 5  |
| 4 | Surface Water Monitoring Data .....          | 7  |
| 5 | Blast Monitoring Data .....                  | 8  |
| 6 | Sewage Treatment Plant Monitoring Data ..... | 12 |
| 7 | Noise Monitoring Data .....                  | 13 |

## 1 | OVERVIEW

|                                                 |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Protection Licence Number:</b> | 640                                                                                                                                                                                                                                                                                                                                                             |
| <b>Licence Holder:</b>                          | HV Operations Pty Ltd (HVO)                                                                                                                                                                                                                                                                                                                                     |
| <b>Address of Premises:</b>                     | Hunter Valley Operations, Lemington Road, Singleton, NSW, 2330                                                                                                                                                                                                                                                                                                  |
| <b>Licence Holder Postal Address:</b>           | PO Box 315, Singleton, NSW, 2330                                                                                                                                                                                                                                                                                                                                |
| <b>EPA Public Register Link:</b>                | <a href="https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=640&amp;id=640&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=640&amp;id=640&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a> |

The locations of each sampling or monitoring point number identified in EPL 640 are displayed in Figure 1.

## 2 | DEFINITIONS

| Abbreviation            | Explanation                                             |
|-------------------------|---------------------------------------------------------|
| DNR                     | Data Not Received                                       |
| mm/s                    | Millimetres per Second                                  |
| dB                      | Decibels                                                |
| g/m <sup>2</sup> /month | Grams per Metre Square per Month                        |
| µg/m <sup>3</sup>       | Micrograms per Cubic Meter of Air                       |
| µS/cm                   | Microsiemens per Centimetre                             |
| pH                      | A measure of the acidity or alkalinity of a solution    |
| mg/L                    | Milligrams per Litre                                    |
| NTU                     | Nephelometric Turbidity Units                           |
| ML/day                  | Megalitres per Day (1ML = 1,000,000L)                   |
| KL/day                  | Kilolitres per Day                                      |
| PM10                    | Particulate Matter of 10 Microns in diameter or smaller |
| HVAS                    | High Volume Air Sampler                                 |
| TEOM                    | Tapered Element Oscillating Microbalance                |
| TSP                     | Total Suspended Particles                               |
| TSS                     | Total Suspended Solids                                  |
| t                       | tonnes                                                  |
| YTD                     | Year To Date - rolling 12 month average                 |

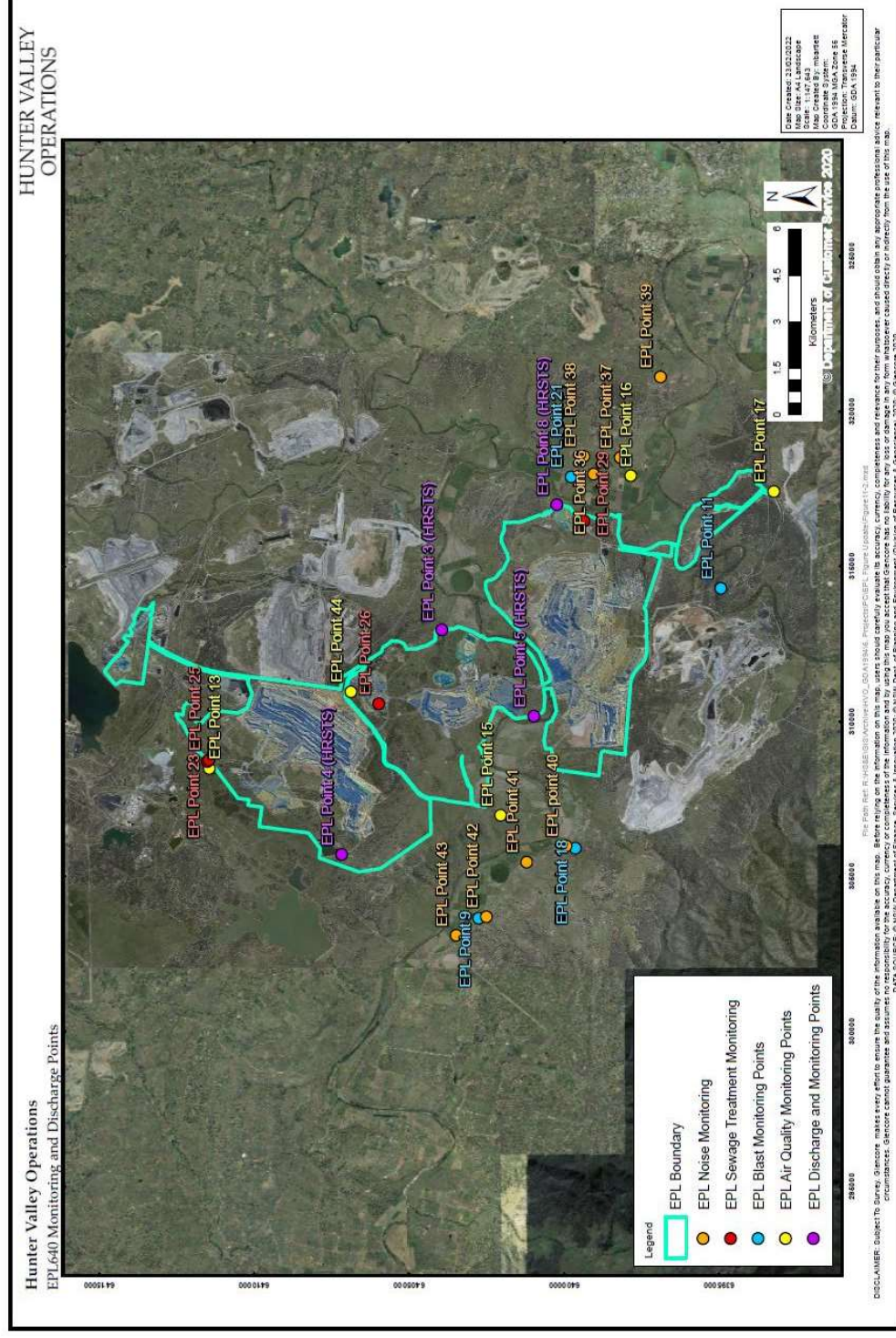


Figure 1: EPL 640 Monitoring Location

**Number:** HVOOC-1797567310-5052      **Status:** Approved      **Effective:** 29/10/2024      **Page 4 of 13**

**Owner:** Superintendent - Environment and Community      **Version:** 1.0      **Review:** [Planned Review Date]

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# REPORT | ENVIRONMENT PROTECTION LICENCE 640 MONITORING DATA - SEPTEMBER

## 3 | AIR QUALITY

Date Last Sampled: 30/09/2024  
Date Obtained: 25/10/2024

Table 1 - Particulate Matter Monitoring (<10µm)

| Monitoring Frequency & Capture |                 | Monitoring Point      |                         |                              |                               |                         |
|--------------------------------|-----------------|-----------------------|-------------------------|------------------------------|-------------------------------|-------------------------|
| Date                           | Unit of Measure | EPL ID 13<br>(Howick) | EPL ID 15<br>(Wandewoi) | EPL ID 16<br>(Knodlers Lane) | EPL ID 17<br>(Golden Highway) | EPL ID 44<br>(West Pit) |
| 1/09/2024                      | µg/m³           | 28.6                  | 16.8                    | 25.1                         | 23.8                          | 86.8                    |
| 2/09/2024                      | µg/m³           | 37.7                  | 18.1                    | 54.0                         | 36.2                          | 125.0                   |
| 3/09/2024                      | µg/m³           | 46.1                  | 27.1                    | 28.9                         | 40.4                          | 58.7                    |
| 4/09/2024                      | µg/m³           | 32.0                  | 27.5                    | 37.4                         | 55.8                          | 137.6                   |
| 5/09/2024                      | µg/m³           | 31.6                  | 26.6                    | 45.1                         | 42.3                          | 181.5                   |
| 6/09/2024                      | µg/m³           | 23.4                  | 22.9                    | 39.3                         | 35.7                          | 164.9                   |
| 7/09/2024                      | µg/m³           | 37.8                  | 34.7                    | 33.0                         | 29.3                          | 129.6                   |
| 8/09/2024                      | µg/m³           | 24.4                  | 16.8                    | 17.3                         | 32.8                          | 124.9                   |
| 9/09/2024                      | µg/m³           | 20.8                  | 9.7                     | 26.8                         | 17.5                          | 140.6                   |
| 10/09/2024                     | µg/m³           | 40.2                  | 25.0                    | 32.4                         | 39.8                          | 139.0                   |
| 11/09/2024                     | µg/m³           | 27.2                  | 25.2                    | 29.8                         | 51.1                          | 118.2                   |
| 12/09/2024                     | µg/m³           | 18.4                  | 15.5                    | 13.3                         | 20.3                          | 23.4                    |
| 13/09/2024                     | µg/m³           | 29.2                  | 18.3                    | 17.5                         | 28.7                          | 30.0                    |
| 14/09/2024                     | µg/m³           | 19.2                  | 9.5                     | 16.3                         | 35.5                          | 82.3                    |
| 15/09/2024                     | µg/m³           | 39.4                  | 17.4                    | 16.8                         | 29.6                          | 70.9                    |
| 16/09/2024                     | µg/m³           | 36.9                  | 18.1                    | 17.6                         | 46.8                          | 112.0                   |



REPORT | ENVIRONMENT PROTECTION LICENCE 640

MONITORING DATA - SEPTEMBER

|                         |       |         |      |      |      |       |
|-------------------------|-------|---------|------|------|------|-------|
| 17/09/2024              | µg/m³ | 26.3    | -    | 22.9 | 43.4 | 148.5 |
| 18/09/2024              | µg/m³ | 22.0    | -    | 31.1 | 31.9 | 123.6 |
| 19/09/2024              | µg/m³ | 36.8    | 14.1 | 41.5 | 37.7 | 138.5 |
| 20/09/2024              | µg/m³ | 36.2    | 13.6 | 33.8 | 31.1 | 133.4 |
| 21/09/2024              | µg/m³ | 23.6    | 11.3 | 25.6 | 32.0 | 130.0 |
| 22/09/2024              | µg/m³ | 25.8    | 10.6 | 27.1 | 26.1 | 141.1 |
| 23/09/2024              | µg/m³ | 30.4    | 19.3 | 31.2 | 33.6 | 127.1 |
| 24/09/2024              | µg/m³ | 37.9    | 42.2 | 41.9 | 50.7 | 144.3 |
| 25/09/2024              | µg/m³ | 50.3    | 36.7 | 67.4 | 78.6 | 147.2 |
| 26/09/2024              | µg/m³ | 19.3    | 17.8 | 15.0 | 14.0 | 18.7  |
| 27/09/2024              | µg/m³ | 14.8    | 9.1  | 8.8  | 9.0  | 15.7  |
| 28/09/2024              | µg/m³ | 19.0    | 12.4 | 9.8  | 11.6 | 12.7  |
| 29/09/2024              | µg/m³ | 22.1    | 13.7 | 10.5 | 13.6 | 17.4  |
| 30/09/2024              | µg/m³ | 19.6    | 14.1 | 11.4 | 14.1 | 19.2  |
| Monthly Meaningful Data |       |         |      |      |      |       |
| September               | µg/m³ | Minimum | 14.8 | 9.1  | 8.8  | 9.0   |
|                         | µg/m³ | Mean    | 29.2 | 19.4 | 27.6 | 33.1  |
|                         | µg/m³ | Maximum | 50.3 | 42.2 | 67.4 | 78.6  |
|                         | µg/m³ | Median  | 27.9 | 17.6 | 27.0 | 32.4  |

\* Less than 75% data capture

## 4 | SURFACE WATER MONITORING DATA

No discharges under the HRSTS occurred during September.

*Table 2 - HRSTS Discharge Monitoring*

| Discharge Point       | Pollutant              | Unit of Measure      | Licence Limits | No. Samples Required by Licence | No. Samples Collected and Analysed |
|-----------------------|------------------------|----------------------|----------------|---------------------------------|------------------------------------|
| EPL ID 3<br>(Dam 11N) | pH                     | pH                   | 6.5-9.5        | 0                               | 0                                  |
|                       | Total Suspended Solids | Milligrams per Litre | 120            | 0                               | 0                                  |
| EPL ID 4<br>(Dam 9W)  | pH                     | pH                   | 6.5-9.5        | 0                               | 0                                  |
|                       | Total Suspended Solids | Milligrams per Litre | 120            | 0                               | 0                                  |
| EPL ID 8<br>(Dam 15S) | pH                     | pH                   | 6.5-9.5        | 0                               | 0                                  |
|                       | Total Suspended Solids | Milligrams per Litre | 120            | 0                               | 0                                  |



REPORT | ENVIRONMENT PROTECTION LICENCE 640  
MONITORING DATA - SEPTEMBER

5 | BLAST MONITORING DATA

Date Last Sampled: 28/09/2024  
Date Obtained: 11/10/2024

Table 3 – Blast Monitoring (Air Blast Overpressure)

| Blast ID               | Date & Time      | Unit of Measure | Monitoring Frequency & Capture | EPL Limits    |                | Monitoring Point         |                        |                       |                     |
|------------------------|------------------|-----------------|--------------------------------|---------------|----------------|--------------------------|------------------------|-----------------------|---------------------|
|                        |                  |                 |                                | 95% of Blasts | 100% of Blasts | Moses Crossing EPL ID 18 | Jerrys Plains EPL ID 9 | Maison Dieu EPL ID 21 | Warkworth EPL ID 11 |
| M1T309501B             | 3/09/2024 14:18  | dB(L)           | All blasts 100%                | 115           | 120            | 95.80                    | 91.59                  | 92.75                 | 91.14               |
| WS49UPG05B             | 4/09/2024 13:14  | dB(L)           |                                | 115           | 120            | 90.73                    | 85.64                  | 85.17                 | 94.73               |
| WN49U2A01B, WN49BAP02B | 5/09/2024 13:04  | dB(L)           |                                | 115           | 120            | 103.93                   | 103.25                 | 107.75                | 91.77               |
| P125N2501A             | 6/09/2024 10:09  | dB(L)           |                                | 115           | 120            | 88.84                    | 84.97                  | 108.13                | 101.98              |
| P125N1003A             | 6/09/2024 10:11  | dB(L)           |                                | 115           | 120            | 92.22                    | 87.87                  | 102.70                | 99.34               |
| WN49ULD02A_WN49ULP02A  | 7/09/2024 13:08  | dB(L)           |                                | 115           | 120            | 106.07                   | 106.32                 | 103.42                | 97.35               |
| WN49ULD02B             | 10/09/2024 13:49 | dB(L)           |                                | 115           | 120            | 82.41                    | 91.56                  | 101.54                | 85.44               |
| WS49UPG05C_WS49LED08A  | 11/09/2024 14:12 | dB(L)           |                                | 115           | 120            | 91.01                    | 95.22                  | 102.29                | 94.18               |
| WN49ULD03A             | 13/09/2024 13:21 | dB(L)           |                                | 115           | 120            | 83.46                    | 96.48                  | 95.23                 | 93.35               |
| WS49LAL09A             | 14/09/2024 13:13 | dB(L)           |                                | 115           | 120            | 98.51                    | 97.85                  | 85.45                 | 104.53              |
| P210WK701A_P210M3P02B  | 16/09/2024 13:30 | dB(L)           |                                | 115           | 120            | 95.49                    | 103.47                 | 108.65                | 97.93               |





REPORT | ENVIRONMENT PROTECTION LICENCE 640

MONITORING DATA - SEPTEMBER

| Blast ID                | Date & Time      | Unit of Measure | Monitoring Frequency & Capture | EPL Limits    |                | Monitoring Point         |                        |                       |                     |
|-------------------------|------------------|-----------------|--------------------------------|---------------|----------------|--------------------------|------------------------|-----------------------|---------------------|
|                         |                  |                 |                                | 95% of Blasts | 100% of Blasts | Moses Crossing EPL ID 18 | Jerrys Plains EPL ID 9 | Maison Dieu EPL ID 21 | Warkworth EPL ID 11 |
| WN49LLD01A              | 17/09/2024 13:20 | dB(L)           | All Blasts 100%                | 115           | 120            | 93.42                    | 77.89                  | 100.81                | 90.06               |
| P210N3501A              | 17/09/2024 16:05 | dB(L)           |                                | 115           | 120            | 91.53                    | 90.76                  | 96.74                 | 98.19               |
| M1T409501A              | 18/09/2024 13:00 | dB(L)           |                                | 115           | 120            | 100.03                   | 106.57                 | 112.09                | 106.49              |
| P210N3502A              | 23/09/2024 13:29 | dB(L)           |                                | 115           | 120            | 94.05                    | 107.26                 | 112.74                | 114.01              |
| P210WK701B, P210N15P02B | 23/09/2024 13:31 | dB(L)           |                                | 115           | 120            | 98.80                    | 107.81                 | 98.73                 | 102.82              |
| WS49LPG01A              | 24/09/2024 13:28 | dB(L)           |                                | 115           | 120            | 89.77                    | 77.14                  | 90.40                 | 92.05               |
| M1T480P01A              | 26/09/2024 16:12 | dB(L)           |                                | 115           | 120            | 87.99                    | 89.96                  | 102.02                | 92.94               |
| M1T409501B              | 27/09/2024 13:18 | dB(L)           |                                | 115           | 120            | 101.45                   | 106.85                 | 102.81                | 96.75               |
| P101PF101A, P101V1P01A  | 28/09/2024 17:49 | dB(L)           |                                | 115           | 120            | 102.76                   | 97.11                  | 97.33                 | 97.79               |
| P125M3P01A              | 28/09/2024 17:50 | dB(L)           |                                | 115           | 120            | 99.98                    | 97.16                  | 93.50                 | 89.44               |
| Monthly Meaningful Data |                  |                 |                                |               |                |                          |                        |                       |                     |
| September               |                  | dB(L)           | Minimum                        | 115           | 120            | 82.41                    | 77.14                  | 85.17                 | 85.44               |
|                         |                  | dB(L)           | Mean                           | 115           | 120            | 94.68                    | 95.37                  | 100.01                | 96.78               |
|                         |                  | dB(L)           | Maximum                        | 115           | 120            | 106.07                   | 107.81                 | 112.74                | 114.01              |
|                         |                  | dB(L)           | Median                         | 115           | 120            | 94.05                    | 96.48                  | 101.54                | 96.75               |



# REPORT | ENVIRONMENT PROTECTION LICENCE 640

## MONITORING DATA - SEPTEMBER

Table 4 – Blast Monitoring (Ground Vibration)

| Blast ID               | Date & Time      | Unit of Measure | Monitoring Frequency & Capture | EPL Limits    |                | Monitoring Point         |                        |                       |
|------------------------|------------------|-----------------|--------------------------------|---------------|----------------|--------------------------|------------------------|-----------------------|
|                        |                  |                 |                                | 95% of Blasts | 100% of Blasts | Moses Crossing EPL ID 18 | Jerrys Plains EPL ID 9 | Maison Dieu EPL ID 21 |
| M1T309501B             | 3/09/2024 14:18  | mm/s            | All Blasts 100%                | 5             | 10             | 0.14                     | 0.05                   | 0.10                  |
| WS49UPG05B             | 4/09/2024 13:14  | mm/s            |                                | 5             | 10             | 0.05                     | 0.06                   | 0.07                  |
| WN49U2A01B, WN49BAP02B | 5/09/2024 13:04  | mm/s            |                                | 5             | 10             | 0.11                     | 0.18                   | 0.09                  |
| P125N2501A             | 6/09/2024 10:09  | mm/s            |                                | 5             | 10             | 0.18                     | 0.11                   | 0.18                  |
| P125N1003A             | 6/09/2024 10:11  | mm/s            |                                | 5             | 10             | 0.10                     | 0.08                   | 0.15                  |
| WN49ULD02A_WN49ULP02A  | 7/09/2024 13:08  | mm/s            |                                | 5             | 10             | 0.22                     | 0.18                   | 0.14                  |
| WN49ULD02B             | 10/09/2024 13:49 | mm/s            |                                | 5             | 10             | 0.17                     | 0.05                   | 0.10                  |
| WS49UPG05C_WS49LED08A  | 11/09/2024 14:12 | mm/s            |                                | 5             | 10             | 0.13                     | 0.06                   | 0.09                  |
| WN49ULD03A             | 13/09/2024 13:21 | mm/s            |                                | 5             | 10             | 0.12                     | 0.05                   | 0.10                  |
| WS49LAL09A             | 14/09/2024 13:13 | mm/s            |                                | 5             | 10             | 0.07                     | 0.05                   | 0.06                  |
| P210WK701A_P210M3P02B  | 16/09/2024 13:30 | mm/s            |                                | 5             | 10             | 0.18                     | 0.05                   | 0.28                  |
| WN49LLD01A             | 17/09/2024 13:20 | mm/s            |                                | 5             | 10             | 0.13                     | 0.05                   | 0.09                  |
| P210N3501A             | 17/09/2024 16:05 | mm/s            |                                | 5             | 10             | 0.10                     | 0.05                   | 0.25                  |
| M1T409501A             | 18/09/2024 13:00 | mm/s            |                                | 5             | 10             | 0.13                     | 0.05                   | 0.07                  |



# REPORT | ENVIRONMENT PROTECTION LICENCE 640

## MONITORING DATA - SEPTEMBER

| Blast ID                | Date & Time      | Unit of Measure | Monitoring Frequency & Capture | EPL Limits    |                |                          |                        | Monitoring Point      |                     |  |
|-------------------------|------------------|-----------------|--------------------------------|---------------|----------------|--------------------------|------------------------|-----------------------|---------------------|--|
|                         |                  |                 |                                | 95% of Blasts | 100% of Blasts | Moses Crossing EPL ID 18 | Jerrys Plains EPL ID 9 | Maison Dieu EPL ID 21 | Warkworth EPL ID 11 |  |
| P210N3502A              | 23/09/2024 13:29 | mm/s            |                                | 5             | 10             | 0.21                     | 0.08                   | 0.33                  | 0.85                |  |
| P210WK701B, P210N15P02B | 23/09/2024 13:31 | mm/s            |                                | 5             | 10             | 0.18                     | 0.12                   | 0.20                  | 0.72                |  |
| WS49LPG01A              | 24/09/2024 13:28 | mm/s            |                                | 5             | 10             | 0.07                     | 0.05                   | 0.10                  | 0.55                |  |
| M1T480P01A              | 26/09/2024 16:12 | mm/s            |                                | 5             | 10             | 0.17                     | 0.05                   | 0.07                  | 0.42                |  |
| M1T409501B              | 27/09/2024 13:18 | mm/s            |                                | 5             | 10             | 0.11                     | 0.09                   | 0.05                  | 0.12                |  |
| P101PF101A, P101V1P01A  | 28/09/2024 17:49 | mm/s            |                                | 5             | 10             | 0.14                     | 0.05                   | 0.12                  | 0.56                |  |
| P125M3P01A              | 28/09/2024 17:50 | mm/s            |                                | 5             | 10             | 0.20                     | 0.05                   | 0.11                  | 0.29                |  |
| Monthly Meaningful Data |                  |                 |                                |               |                |                          |                        |                       |                     |  |
| September               |                  | mm/s            | Minimum                        | 5             | 10             | 0.05                     | 0.05                   | 0.05                  | 0.09                |  |
|                         |                  | mm/s            | Mean                           | 5             | 10             | 0.14                     | 0.07                   | 0.13                  | 0.45                |  |
|                         |                  | mm/s            | Maximum                        | 5             | 10             | 0.22                     | 0.18                   | 0.33                  | 0.85                |  |
|                         |                  | mm/s            | Median                         | 5             | 10             | 0.13                     | 0.05                   | 0.10                  | 0.42                |  |

## 6 | SEWAGE TREATMENT PLANT MONITORING DATA

**Date Sampled:** 24/09/2024

**Date Obtained:** 28/10/2024

*Table 5 – Sewage Treatment Plant Monitoring*

| Monitoring Site | Date & Time            | Pollutant        | Unit of Measure            | Monitoring Result |
|-----------------|------------------------|------------------|----------------------------|-------------------|
| EPA ID 23       | 24/09/2024<br>11:30:00 | Faecal Coliforms | Colony forming units/100ml | 1,900,000         |
|                 |                        | pH               | pH                         | 7.13              |
| EPA ID 25       | 24/09/2024<br>11:50:00 | Faecal Coliforms | Colony forming units/100ml | ≈ 190             |
|                 |                        | pH               | pH                         | 7.93              |
| EPA ID 26       | 24/09/2024<br>09:20:00 | Faecal Coliforms | Colony forming units/100ml | ≈ 20              |
|                 |                        | pH               | pH                         | 4.49              |
| EPA ID 29       | 24/09/2024<br>08:50:00 | Faecal Coliforms | Colony forming units/100ml | ≈ 1,100           |
|                 |                        | pH               | pH                         | 7.72              |

7 | NOISE MONITORING DATA

Date Sampled:25/09/2024

Date Obtained:14/10/2024

Table 6 – Night  $L_{Aeq,15minute}$  and 1minute Generated by HVO Against EPL Criteria

| Location                     | Start date and time | Wind      |                        | Stability class | Very enhancing? <sup>1</sup> | EPL limits, dB <sup>1</sup> |               | HVO levels, dB     |               | Exceedances, dB    |               |
|------------------------------|---------------------|-----------|------------------------|-----------------|------------------------------|-----------------------------|---------------|--------------------|---------------|--------------------|---------------|
|                              |                     | Speed m/s | Direction <sup>3</sup> |                 |                              | $L_{Aeq,15minute}$          | $L_{A1,1min}$ | $L_{Aeq,15minute}$ | $L_{A1,1min}$ | $L_{Aeq,15minute}$ | $L_{A1,1min}$ |
| Shearers Lane                | 25/09/2024 21:00    | 3.0       | 284                    | D               | No                           | 41                          | 46            | 30                 | 34            | Nil                | Nil           |
| Knodlers Lane                | 25/09/2024 21:46    | 2.8       | 277                    | D               | No                           | 40                          | 46            | 32                 | 34            | Nil                | Nil           |
| Maison Dieu                  | 25/09/2024 21:23    | 3.4       | 282                    | D               | Yes                          | 44                          | 51            | 28                 | 29            | Nil                | Nil           |
| Long Point (Dights Crossing) | 25/09/2024 22:42    | 2.5       | 265                    | D               | No                           | 37                          | 46            | <25                | 27            | Nil                | Nil           |
| Kilburnie South              | 25/09/2024 23:21    | 1.4       | 181                    | F               | No                           | 39                          | 46            | <20                | <20           | Nil                | Nil           |
| Jerrys Plains East           | 25/09/2024 23:00    | 3.1       | 283                    | D               | Yes                          | 44                          | 51            | <20                | <20           | Nil                | Nil           |
| Jerrys Plains Village        | 25/09/2024 21:33    | 3.4       | 282                    | D               | Yes                          | 45                          | 51            | IA                 | IA            | Nil                | Nil           |
| Jerrys Plains West           | 25/09/2024 21:10    | 3.0       | 284                    | D               | No                           | 40                          | 46            | IA                 | IA            | Nil                | Nil           |

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

2. Site-only  $L_{Aeq,15minute}$ , includes modifying factor penalties if applicable.

3. Degrees magnetic north, "\*" indicates calm conditions.