

HUNTER VALLEY OPERATIONS

EPL 640 MONITORING DATA – JANUARY 2026

DOCUMENT NUMBER

STATUS

VERSION

EFFECTIVE

REVIEW

[Planned Review Date]

OWNER

Superintendent - Environment and Community



| | | |
|---|---|----|
| 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..... | 15 |
| 7 | Noise Monitoring Data..... | 16 |



1 | OVERVIEW

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

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 ² /month | Grams per Metre Square per Month |
| µg/m ³ | 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 |

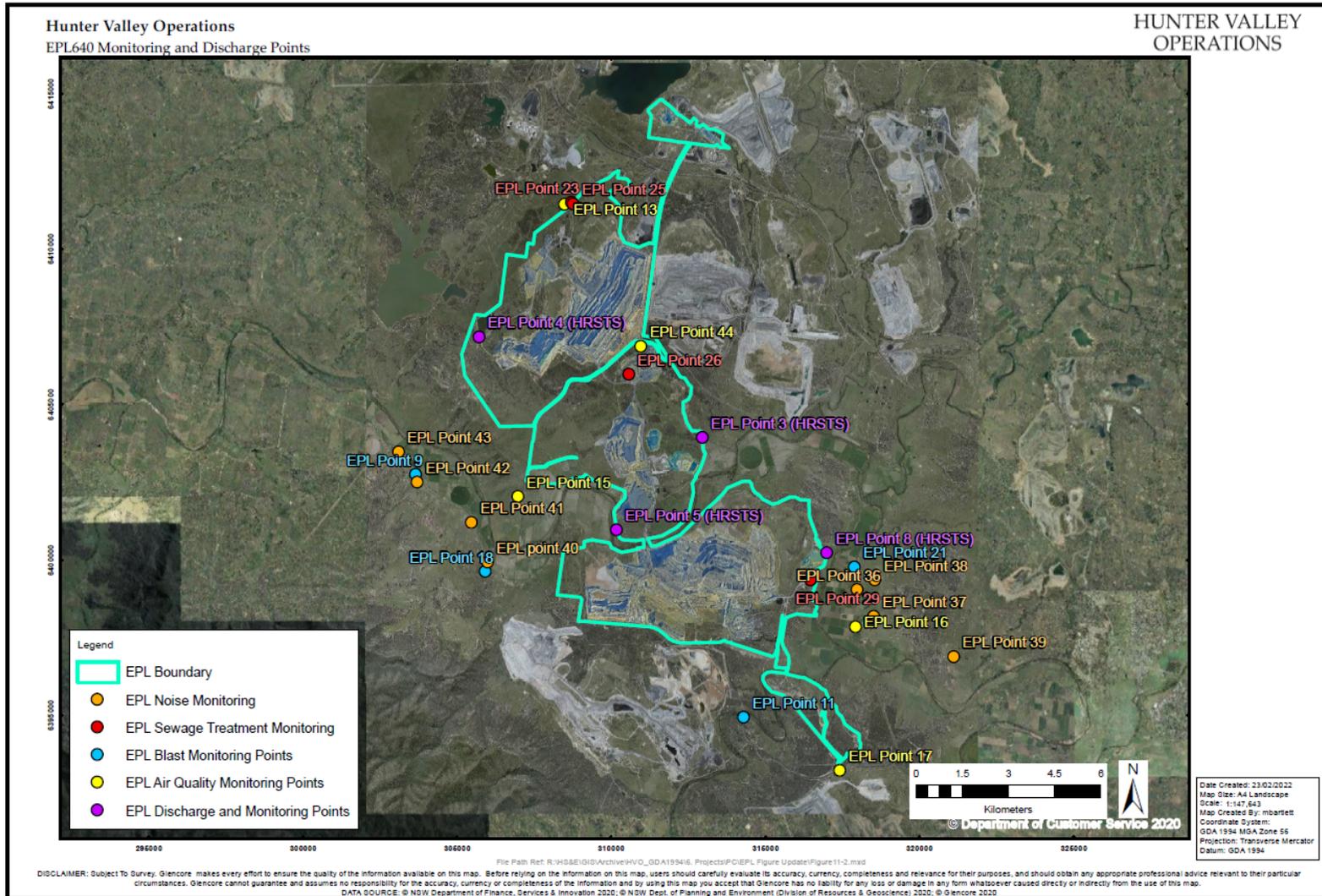


Figure 1: EPL 640 Monitoring Location

3 | AIR QUALITY

Date Last Sampled: 31/01/2026

Date Obtained: 17/03/2026

Table 1 - Particulate Matter Monitoring (<10µm)

| Date | Unit of Measure | Monitoring Frequency & Capture | Monitoring Point | | | | |
|------------|-------------------|--------------------------------|--------------------|----------------------|---------------------------|----------------------------|----------------------|
| | | | EPL ID 13 (Howick) | EPL ID 15 (Wandewoi) | EPL ID 16 (Knodlers Lane) | EPL ID 17 (Golden Highway) | EPL ID 44 (West Pit) |
| 1/01/2026 | µg/m ³ | Continuous | 28.5 | 20.2 | 26.2 | 23.9 | 30.0 |
| 2/01/2026 | µg/m ³ | | 27.3 | 19.6 | 17.2 | 15.4 | 18.9 |
| 3/01/2026 | µg/m ³ | | 22.9 | 24.3 | 16.9 | 19.2 | 40.0 |
| 4/01/2026 | µg/m ³ | | 11.2 | 13.4 | 18.3 | 17.6 | 28.1 |
| 5/01/2026 | µg/m ³ | | 21.8 | 22.7 | * | 20.0 | 27.0 |
| 6/01/2026 | µg/m ³ | | 29.9 | 27.6 | * | 24.1 | 24.2 |
| 7/01/2026 | µg/m ³ | | 30.5 | 29.3 | * | 19.2 | 20.5 |
| 8/01/2026 | µg/m ³ | | 34.6 | 41.8 | * | 29.4 | 55.0 |
| 9/01/2026 | µg/m ³ | | 28.7 | 28.2 | 28.1 | 29.3 | 106.0 |
| 10/01/2026 | µg/m ³ | | 25.9 | 35.5 | 44.3 | 50.2 | 108.0 |
| 11/01/2026 | µg/m ³ | | * | 41.6 | 34.5 | 40.7 | 43.8 |
| 12/01/2026 | µg/m ³ | | * | 16.9 | 11.3 | 14.1 | 12.8 |
| 13/01/2026 | µg/m ³ | | 24.5 | 26.0 | 14.6 | 20.9 | 16.6 |
| 14/01/2026 | µg/m ³ | | 20.7 | 17.6 | 11.2 | 13.7 | 21.4 |
| 15/01/2026 | µg/m ³ | | 20.2 | 18.4 | 10.7 | 16.4 | 13.0 |

Number: HVOOC-1797567310-5458

Status: Approved

Effective: 22/01/2026

Page 5 of 16

Owner: Superintendent - Environment and Community

Version: 1.0

Review: [Planned Review Date]

| | | | | | | | |
|--------------------------------|-------------------|----------------|------|------|------|------|-------|
| 16/01/2026 | µg/m ³ | | 17.8 | 14.9 | 7.9 | 17.5 | 12.3 |
| 17/01/2026 | µg/m ³ | | 18.9 | 13.4 | 9.4 | 19.2 | 13.7 |
| 18/01/2026 | µg/m ³ | | 11.6 | 11.5 | 6.2 | 10.7 | 7.5 |
| 19/01/2026 | µg/m ³ | | 18.7 | 15.9 | 8.4 | 17.3 | 9.9 |
| 20/01/2026 | µg/m ³ | | 19.7 | 18.5 | 10.6 | 18.5 | 13.3 |
| 21/01/2026 | µg/m ³ | | 24.0 | 22.8 | 13.3 | 23.9 | 35.5 |
| 22/01/2026 | µg/m ³ | | 34.2 | 26.6 | 20.2 | 36.7 | 54.4 |
| 23/01/2026 | µg/m ³ | | 32.4 | 26.5 | 20.9 | 29.8 | 25.4 |
| 24/01/2026 | µg/m ³ | | 30.4 | 37 | 19.7 | 27.4 | 35.6 |
| 25/01/2026 | µg/m ³ | | 38.5 | 51.2 | 27.0 | 47.5 | 82.9 |
| 26/01/2026 | µg/m ³ | | 52.7 | 46.1 | 33.9 | 46.5 | 41.1 |
| 27/01/2026 | µg/m ³ | | 38.4 | 27.9 | 19.6 | 24.5 | 28.7 |
| 28/01/2026 | µg/m ³ | | 49.3 | 47.3 | 25.9 | 29.6 | 52.7 |
| 29/01/2026 | µg/m ³ | | 41.4 | 34.2 | 31.1 | 21.5 | 31.2 |
| 30/01/2026 | µg/m ³ | | 52.2 | 52.9 | 43.3 | 31.7 | 40.2 |
| 31/01/2026 | µg/m ³ | | 97.1 | 84.2 | * | 67.4 | 97.3 |
| Monthly Meaningful Data | | | | | | | |
| January | µg/m ³ | Minimum | 11.2 | 11.5 | 6.2 | 10.7 | 7.5 |
| | µg/m ³ | Mean | 31.2 | 29.5 | 20.4 | 26.6 | 37.0 |
| | µg/m ³ | Maximum | 97.1 | 84.2 | 44.3 | 67.4 | 108.0 |
| | µg/m ³ | Median | 28.5 | 26.5 | 19.0 | 23.9 | 28.7 |

* Less than 75% 24-hour data capture



4 | SURFACE WATER MONITORING DATA

No discharges under the HRSTS occurred during the reporting period.

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 (Dam 11N) | pH | pH | 6.5-9.5 | 0 | 0 |
| | Total Suspended Solids | Milligrams per Litre | 120 | 0 | 0 |
| EPL ID 4 (Dam 9W) | pH | pH | 6.5-9.5 | 0 | 0 |
| | Total Suspended Solids | Milligrams per Litre | 120 | 0 | 0 |
| EPL ID 8 (Dam 15S) | pH | pH | 6.5-9.5 | 0 | 0 |
| | Total Suspended Solids | Milligrams per Litre | 120 | 0 | 0 |

5 | BLAST MONITORING DATA

Date Last Sampled: 31/01/2026

Date Obtained: 02/02/2026

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 |
| WT10LDU104A | 2/01/2026 11:38 | dB(L) | All Blasts 100% | 115 | 120 | 101.70 | 103.06 | 107.46 | 93.12 |
| P210PCF106B | 2/01/2026 13:32 | dB(L) | | 115 | 120 | 106.26 | 105.09 | 104.62 | 95.47 |
| P102N1003A | 2/01/2026 13:34 | dB(L) | | 115 | 120 | 102.51 | 106.48 | 102.40 | 93.58 |
| WS15BAY101A | 5/01/2026 13:14 | dB(L) | | 115 | 120 | 92.03 | 93.21 | 92.88 | 94.74 |
| P102N2501A | 6/01/2026 12:31 | dB(L) | | 115 | 120 | 97.93 | 96.42 | 96.33 | 96.83 |
| WT12BAY04A | 6/01/2026 14:12 | dB(L) | | 115 | 120 | 89.57 | 88.51 | 96.31 | 93.85 |

Number: HVOOC-1797567310-5458

Status: Approved

Effective: 22/01/2026

Page 8 of 16

Owner: Superintendent - Environment and Community

Version: 1.0

Review: [Planned Review Date]



| 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 |
| P210WKW909A | 7/01/2026 11:03 | dB(L) | All Blasts 100% | 115 | 120 | 103.00 | 93.31 | 99.58 | 99.90 |
| WT11ARLP01A | 7/01/2026 13:19 | dB(L) | | 115 | 120 | 82.39 | 93.69 | 94.75 | 87.58 |
| P102N10P02A_02A_M3P03A | 8/01/2026 13:19 | dB(L) | | 115 | 120 | 95.00 | 85.23 | 90.85 | 90.78 |
| WS49BAR01A | 9/01/2026 13:07 | dB(L) | | 115 | 120 | 100.25 | 102.36 | 91.98 | 89.81 |
| WT12BAY05A | 10/01/2026 13:30 | dB(L) | | 115 | 120 | 109.95 | 113.32 | 104.24 | 97.86 |
| WT11ARU105A | 12/01/2026 12:59 | dB(L) | | 115 | 120 | 98.15 | 92.02 | 102.51 | 88.84 |
| P102FCL04A | 14/01/2026 13:02 | dB(L) | | 115 | 120 | 98.15 | 98.63 | 113.10 | 100.95 |
| WT10LDU105A | 15/01/2026 12:54 | dB(L) | | 115 | 120 | 92.97 | 86.60 | 92.57 | 90.27 |
| P210B6P02A | 16/01/2026 12:51 | dB(L) | | 115 | 120 | 92.93 | 96.08 | 84.11 | 96.18 |

Number: HVOOC-1797567310-5458

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| 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 |
| WT11ARU106A | 20/01/2026 12:12 | dB(L) | All Blasts 100% | 115 | 120 | 96.13 | 102.34 | 98.90 | 82.73 |
| P210BRN601A_P210B6P02B | 21/01/2026 13:10 | dB(L) | | 115 | 120 | 95.67 | 87.20 | 96.16 | 96.16 |
| P101BRN604A | 23/01/2026 12:50 | dB(L) | | 115 | 120 | 97.04 | 101.04 | 96.77 | 99.51 |
| P102N1004A | 23/01/2026 12:52 | dB(L) | | 115 | 120 | 103.16 | 102.96 | 104.73 | 101.37 |
| WS15017502A | 28/01/2026 11:32 | dB(L) | | 115 | 120 | 95.40 | 94.95 | 93.07 | 99.24 |
| P210BRN602A | 28/01/2026 13:16 | dB(L) | | 115 | 120 | 90.16 | 94.69 | 94.28 | 91.89 |
| P210BRN303A | 28/01/2026 13:20 | dB(L) | | 115 | 120 | 98.28 | 100.77 | 91.73 | 92.71 |
| WT12BAY06A | 30/01/2026 12:59 | dB(L) | | 115 | 120 | 89.90 | 93.93 | 86.53 | 84.52 |
| WT11ARU107A | 31/01/2026 13:09 | dB(L) | | 115 | 120 | 83.94 | 83.14 | 94.66 | 84.94 |

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| 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 |
| <i>Monthly Meaningful Data</i> | | | | | | | | | |
| January | | dB(L) | Minimum | 115 | 120 | 82.39 | 83.14 | 84.11 | 82.73 |
| | | dB(L) | Mean | 115 | 120 | 96.35 | 96.46 | 97.11 | 93.45 |
| | | dB(L) | Maximum | 115 | 120 | 109.95 | 113.32 | 113.10 | 101.37 |
| | | dB(L) | Median | 115 | 120 | 96.59 | 95.52 | 96.24 | 93.72 |

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 | Warkworth EPL ID 11 |
| WT10LDU104A | 2/01/2026 11:38 | mm/s | All Blasts 100% | 5 | 10 | 0.16 | 0.14 | 0.16 | 0.07 |
| P210PCF106B | 2/01/2026 13:32 | mm/s | | 5 | 10 | 0.09 | 0.08 | 0.14 | 0.11 |
| P102N1003A | 2/01/2026 13:34 | mm/s | | 5 | 10 | 0.23 | 0.11 | 0.14 | 0.23 |



| 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 |
| WS15BAY101A | 5/01/2026 13:14 | mm/s | All Blasts 100% | 5 | 10 | 0.24 | 0.20 | 0.14 | 0.91 |
| P102N2501A | 6/01/2026 12:31 | mm/s | | 5 | 10 | 0.14 | 0.12 | 0.17 | 0.36 |
| WT12BAY04A | 6/01/2026 14:12 | mm/s | | 5 | 10 | 0.25 | 0.26 | 0.10 | 0.50 |
| P210WKW909A | 7/01/2026 11:03 | mm/s | | 5 | 10 | 0.14 | 0.14 | 0.25 | 0.41 |
| WT11ARLP01A | 7/01/2026 13:19 | mm/s | | 5 | 10 | 0.16 | 0.18 | 0.12 | 0.10 |
| P102N10P02A_02A_M3P03A | 8/01/2026 13:19 | mm/s | | 5 | 10 | 0.43 | 0.21 | 0.23 | 1.02 |
| WS49BAR01A | 9/01/2026 13:07 | mm/s | | 5 | 10 | 0.30 | 0.32 | 0.32 | 0.44 |
| WT12BAY05A | 10/01/2026 13:30 | mm/s | | 5 | 10 | 0.23 | 0.20 | 0.11 | 0.09 |
| WT11ARU105A | 12/01/2026 12:59 | mm/s | | 5 | 10 | 0.22 | 0.19 | 0.20 | 0.24 |

Number: HVOOC-1797567310-5458

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Owner: Superintendent - Environment and Community

Version: 1.0

Review: [Planned Review Date]



| 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 |
| P102FCL04A | 14/01/2026 13:02 | mm/s | All Blasts 100% | 5 | 10 | 0.07 | 0.09 | 0.09 | 0.35 |
| WT10LDU105A | 15/01/2026 12:54 | mm/s | | 5 | 10 | 0.20 | 0.14 | 0.18 | 0.09 |
| P210B6P02A | 16/01/2026 12:51 | mm/s | | 5 | 10 | 0.10 | 0.09 | 0.24 | 0.54 |
| WT11ARU106A | 20/01/2026 12:12 | mm/s | | 5 | 10 | 0.28 | 0.23 | 0.25 | 0.10 |
| P210BRN601A_P210B6P02B | 21/01/2026 13:10 | mm/s | | 5 | 10 | 0.30 | 0.16 | 0.97 | 1.32 |
| P101BRN604A | 23/01/2026 12:50 | mm/s | | 5 | 10 | 0.15 | 0.11 | 0.30 | 0.48 |
| P102N1004A | 23/01/2026 12:52 | mm/s | | 5 | 10 | 1.65 | 0.45 | 0.34 | 1.13 |
| WS15017502A | 28/01/2026 11:32 | mm/s | | 5 | 10 | 0.10 | 0.10 | 0.09 | 0.29 |
| P210BRN602A | 28/01/2026 13:16 | mm/s | | 5 | 10 | 0.13 | 0.12 | 0.18 | 0.25 |

Number: HVOOC-1797567310-5458

Status: Approved

Effective: 22/01/2026

Owner: Superintendent - Environment and Community

Version: 1.0

Review: [Planned Review Date]



| 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 |
| P210BRN303A | 28/01/2026 13:20 | mm/s | All Blasts 100% | 5 | 10 | 0.15 | 0.13 | 0.33 | 0.51 |
| WT12BAY06A | 30/01/2026 12:59 | mm/s | | 5 | 10 | 0.19 | 0.18 | 0.11 | 0.06 |
| WT11ARU107A | 31/01/2026 13:09 | mm/s | | 5 | 10 | 0.29 | 0.22 | 0.21 | 0.10 |
| <i>Monthly Meaningful Data</i> | | | | | | | | | |
| January | | mm/s | Minimum | 5 | 10 | 0.07 | 0.08 | 0.09 | 0.06 |
| | | mm/s | Mean | 5 | 10 | 0.26 | 0.17 | 0.22 | 0.40 |
| | | mm/s | Maximum | 5 | 10 | 1.65 | 0.45 | 0.97 | 1.32 |
| | | mm/s | Median | 5 | 10 | 0.20 | 0.15 | 0.18 | 0.32 |



6 | SEWAGE TREATMENT PLANT MONITORING DATA

Sewage treatment plant monitoring results are provided on a quarterly basis. Results will be provided in the March 2026 report.

7 | NOISE MONITORING DATA

Date Sampled: 28-29/01/2026

Date Obtained: 25/02/2026

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

| Location | Start date and time | Wind | | Stability class | Very enhancing? ¹ | EPL limits, dB ¹ | | HVO levels, dB ^{2,3} | | Exceedances, dB | |
|------------------------------|---------------------|-----------|------------------------|-----------------|------------------------------|-----------------------------|---------------|---------------------------------|---------------|--------------------|---------------|
| | | Speed m/s | Direction ⁴ | | | $L_{Aeq,15minute}$ | $L_{A1,1min}$ | $L_{Aeq,15minute}$ ² | $L_{A1,1min}$ | $L_{Aeq,15minute}$ | $L_{A1,1min}$ |
| Shearers Lane | 28/01/2026 22:00 | 4.6 | 146 | D | Yes | 46 | 51 | IA | IA | Nil | Nil |
| Knodlers Lane | 28/01/2026 22:41 | 4.3 | 155 | D | Yes | 45 | 51 | IA | IA | Nil | Nil |
| Maison Dieu | 28/01/2026 22:20 | 4.5 | 142 | D | Yes | 44 | 51 | IA | IA | Nil | Nil |
| Long Point (Dights Crossing) | 28/01/2026 23:11 | 6.2 | 145 | D | Yes | 42 | 51 | IA | IA | Nil | Nil |
| Moses Crossing | 29/01/2026 00:05 | 6.5 | 135 | D | Yes | 44 | 51 | IA | IA | Nil | Nil |
| Jerrys Plains East | 28/01/2026 23:43 | 6.8 | 132 | D | Yes | 44 | 51 | IA | IA | Nil | Nil |
| Jerrys Plains Village | 28/01/2026 22:22 | 4.5 | 142 | D | Yes | 45 | 51 | 31 | 33 | Nil | Nil |
| Jerrys Plains West | 28/01/2026 22:00 | 4.6 | 146 | D | Yes | 45 | 51 | 28 | 30 | Nil | Nil |

Notes:

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.
- Site-only $L_{Aeq,15minute}$, includes modifying factor penalties if applicable.
- Site-only $L_{A1,1minute}$ based on measured site-only L_{Amax} as detailed in Section 3.2.
- Degrees magnetic north, "-" indicates calm conditions.

Number: HVOOC-1797567310-5458

Status: Approved

Effective: 22/01/2026

Page 16 of 16

Owner: Superintendent - Environment and Community

Version: 1.0

Review: [Planned Review Date]

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