



Environmental Monitoring Summary Report

Port Kembla Gas Terminal

Infrastructure Approval **SSI-9471**
EPL Licence Number: **21529**

Reporting period: **1 March 2022 – 31 March 2022**

Date published: **11 May 2022**



1 Project background

AIE is responsible for the development of a liquefied natural gas (LNG) import terminal at Port Kembla, south of Wollongong, NSW (the Project). The Project will be the first of its kind in NSW and will provide a simple and flexible solution to the state’s gas supply challenges.

The Project has been declared Critical State Significant Infrastructure (CSSI) in accordance with Section 5.13 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) (NSW) and Schedule 5 of the *State Environmental Planning Policy State and Regional Development* (SRD SEPP). The Project received Infrastructure Approval from the Minister for Planning and Public Spaces on 29 of April 2019.

The construction of the Project is primarily associated with the establishment of a new berth facility at Port Kembla to enable a Liquefied Natural Gas (LNG) Carrier to berth alongside the Floating Storage and Re-gasification Unit (FSRU) and new infrastructure to connect the terminal to the existing gas network. The location of the Project is shown on the Environmental Monitoring Location Plan provided as Appendix A.

An Environment Protection Licence (EPL) (EPL No. 21529) was issued for the Project by the NSW Environment Protection Authority (EPA) on 2 June 2021. The details of the EPL are provided below in Table 1-1.

Table 1-1 EPL Details

| | |
|--------------------|--|
| EPL No. | 21529 |
| Anniversary Date: | 2 June |
| Licensee: | Australian Industrial Energy Pty Ltd |
| | PO Box 3155 Broadway |
| | Nedlands WA 6009 |
| Premises: | Port Kembla Gas Terminal, Port Kembla NSW 2505 |
| Scheduled Activity | Contaminated soil treatment |
| | Crushing, grinding or separating |
| | Petroleum products storage |

2 Report purpose

This Monthly Environmental Monitoring Report has been prepared to provide an overview of project activities undertaken during the reporting period and those forecast for the next reporting period (refer to Section 3) and to satisfy the requirements associated with the publishing of monitoring data and results and reporting requirements required under the relevant conditions of approval and environmental management plans as detailed further in Table 2-1.

Table 2-1 Environmental monitoring reporting requirements

| Document | Clause or section | Requirement | Addressed: |
|---|--------------------|--|--|
| DPIE SSI-9471 | Sch. 4 Cond. 8 | Regular Reporting – The Proponent must provide regular reporting on the environmental performance of the development on its website in accordance with the reporting requirements in any strategies, plans or programs approved under the conditions of this approval. | This report which will be made available on the Project Website. |
| | Sch. 4 Cond. 12 | Access to information – From the commencement of development under this approval, the Proponent shall: (a) Make copies of the following information publicly available on its website: | |
| | | - a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs | Section 4 |
| | | - a summary of complaints, which is to be updated monthly | Section 5 |
| AIE Air Quality Management Plan (Stage 2A) | Section 11.4 | A monthly environmental monitoring report will be developed for each calendar month which will include details of the monitoring results and frequencies and inclusion of any exceedance of EPL No. 21529 air monitoring limits / criteria. A copy of the monthly environmental monitoring report will be made available on the AIE Project website. | Air quality monitoring results and frequencies and inclusion of any exceedance provided in Section 4.1 |
| AIE Water Quality Management Plan (Stage 2A) | Section 9.4 | A monthly environmental monitoring report will be developed for each calendar month which will include details of the monitoring results and frequencies and inclusion of any exceedance of EPL (No. 21529) water quality monitoring limits / criteria. A copy of the monthly environmental monitoring report will be made available on the AIE Project website. | Water quality monitoring results and frequencies and inclusion of any exceedance provided in Section 4.2 |
| EPL 21529 | Condition M6.2 | The licensee must monitor and record temperature, humidity, wind direction, wind velocity and rainfall at either the project weather station, or through analysis of equivalent weather information obtained from the Australian Bureau of Meteorology. Whilst there are no specific requirements to provide weather data in the monthly report, AIE has included the data for transparency and to assist with context for any monitoring results where required. | Section 6 |



3 Project activities

3.1 Project status

The project has progressed to Stage 2A: Marine Berth Construction – Land Based. The Stage 2A works include:

- Quay wall construction
- Installation of communications conduit, potable water line, and 11kV power cable and Pad-mount Substation within the Marine Berth Construction and Dredging (MBD) Site Compound
- Construction of the Onshore Receiving Facilities (ORF), which comprises three areas: Wharf Topside Area; Utility Area; and Common Area
- Pipeline construction and associated ancillary infrastructure within MBD Site Compound delivered as part of ORF scope

3.2 Project activities for the reporting month

- Installation of wharf king piles
- Installation of rear sheet pile wall

3.3 Project activities for the upcoming month

- Ongoing installation of wharf king piles
- Ongoing installation of rear sheet pile wall

4 Environmental monitoring data

The following sections present a summary of the air quality, water quality and weather monitoring data for the reporting month.

A copy of this report will be made available on the Project website at the following web-address:

<https://ausindenergy.com/environmental-information/>

4.1 Air quality

4.1.1 Air Quality Monitoring Locations and Frequency

Air quality monitoring equipment is installed to the north and south of the MBD site compound (Berth 101), and to the east and west and central portion of the Outer Harbour stockpile area.

A summary of the air quality monitoring locations are provided below in Table 4-1 and a monitoring location plan is provided in Appendix A.

Table 4-1 Air quality monitoring locations

| EPL Ref. | Monitoring location | Monitoring type | Monitoring parameter | Monitoring frequency |
|----------|--|--|---|---|
| 8 | Northern boundary of the premises, adjacent the southern boundary of Port Kembla Coal Terminal | Dust Deposition Gauge and Ambient Air Monitoring - High Volume Air Sampler | Particulates - Deposited Matter (gm/m ² /month) and Total suspended particles (TSP) (ug/m ³) | Monthly |
| 10 | Southern boundary of Berth 101 | | | |
| 12 | Southern side of emplacement area, Outer Harbour | | | |
| 14 | Eastern side of emplacement area, Outer Harbour | | | Special Frequency 1 (24-hour period every 6 days) |
| 22 | Northern side of emplacement area, Outer Harbour | | | |
| 9 | Northern boundary of the premises, adjacent the southern boundary of Port Kembla Coal Terminal | Real time dust monitoring | PM10 (ug/m ³) | Continuous |
| 11 | Southern boundary of Berth 101 | | | |
| 13 | Southern side of emplacement area, Outer Harbour | | | |
| 15 | Eastern side of emplacement area, Outer Harbour | | | |
| 23 | Northern side of emplacement area, Outer Harbour | | | |

4.1.2 Air Quality Monitoring Results

The air quality monitoring results for the reporting month are presented below in Table 4-2.

Table 4-2 Air quality monitoring results

| Monitoring Location (EPL Reference) | | Monitoring parameter | | | | | | Events above criteria ¹ | |
|-------------------------------------|--------|--|---|-------------------|-------------------|---|-----------------------------|------------------------------------|---------|
| | | Particulates Deposited Matter (Depositional dust gauge) ² | Total Suspended Particles (High Volume Air Sampler) | | | PM10 (Real-time tracker) | | | |
| | | | Average | Minimum | Maximum | Average | Minimum | | Maximum |
| Unit | | g/m ² /month | mg/m ³ | mg/m ³ | mg/m ³ | ug/m ³ /24 hours | ug/m ³ /24 hours | ug/m ³ /24 hours | No. |
| Criteria | | NA | NA | NA | NA | NA | NA | 200 | NA |
| Berth 101 North | EPL 8 | 2.70 | 0.14 | 0.07 | 0.25 | No PM10 monitoring required at this EPL Point | | | NA |
| | EPL 9 | No Dust Deposition Gauge or HiVol required at this EPL Point | | | | 49.50 | 22.71 | 121.13 | 0 |
| Berth 101 South | EPL 10 | 4.70 | 0.09 | 0.05 | 0.10 | No PM10 monitoring required at this EPL Point | | | NA |
| | EPL 11 | No dust gauge or HiVol required at this EPL Point | | | | 36.49 | 15.88 | 71.83 | 0 |
| Outer Harbour South | EPL 12 | 0.30 | 0.04 | 0.02 | 0.06 | No PM10 monitoring required at this EPL Point | | | NA |
| | EPL 13 | No dust gauge or HiVol required at this EPL Point | | | | 13.73 | 4.44 | 34.12 | 0 |
| Outer Harbour East | EPL 14 | <0.1 | 0.06 | 0.03 | 0.10 | No PM10 monitoring required at this EPL Point | | | NA |
| | EPL 15 | No dust gauge or HiVol required at this EPL Point | | | | 22.52 | 5.02 | 62.71 | 0 |
| Outer Harbour North | EPL 22 | 12.00 | 0.03 | 0.02 | 0.06 | No PM10 monitoring required at this EPL Point | | | NA |
| | EPL 23 | No dust gauge or HiVol required at this EPL Point | | | | 15.49 | 5.80 | 42.14 | 0 |

¹Includes individual number of times results recorded above Stage 2A performance criteria (200 ug/m³/24 hours). Refer to Appendix B for event above criteria reports.

²Assessed as Total Insoluble.

4.2 Water quality

4.2.1 Water Quality Monitoring Locations and Frequency

Water quality monitoring is undertaken at five (5) locations within the Port Kembla harbour. Each water quality monitoring location is securely anchored/moored in its location. Details of each of the water quality monitoring locations and corresponding EPL license reference is provided below in Table 4-3.

Table 4-3 Harbour water quality monitoring locations

| EPL Ref. | Monitoring location | Type of monitoring | Parameters | |
|----------|---|-------------------------------------|---|--------------------|
| | | | Continuous monitoring at 15 min intervals | Weekly grab sample |
| 1 | WQM1 - North of Berth 101 | Primary- impact works area receiver | - Turbidity - Temperature - pH - Salinity (EC) - Dissolved oxygen | - Aluminium |
| 16 | WQM2 - North of the emplacement cell, Outer Harbour. | Primary- impact works area receiver | | - Anthracene |
| 17 | WQM3 - South West of Berth 101 | Primary- impact works area receiver | | - Arsenic |
| 18 | WQM4 - Near the Pacific Ocean entrance to Outer Harbour | Background water quality | | - Benzo(a)pyrene |
| 19 | WQM5 - Near entrance to Allans Creek, near Bluescope Steel | Background water quality | | - Cadmium |
| | | | | - Chromium (total) |
| | | | | - Cobalt |
| | | | | - Copper |
| | | | | - Lead |
| | | | | - Mercury |
| | | | | - Naphthalene |
| | | | | - Nickel |
| | | | | - Total PAHs |
| | | | | - TSS |
| | | | | - Tributyltin |
| | | | | - Zinc |

In addition to the monitoring requirements listed above for the harbour, monitoring is also required for any discharge event from the on-site sedimentation basin located at the southern end of Berth 101. Details of the monitoring requirements associated with the sediment basin discharge point are included below in Table 4-4.

Table 4-4 Sediment basin discharge monitoring

| EPL Ref. | Monitoring location | Type of monitoring | Parameters | |
|----------|---|-------------------------------|---|---|
| | | | Prior to discharge | Daily grab sample during discharge |
| 20 | Sediment basin discharge point at the southern end of Berth 101 | Wet weather discharge quality | - Oil and grease (visual) - Total suspended solids (TSS) | - Aluminium - Arsenic - Cadmium - Chromium - Cobalt - Copper - Lead - Mercury - Nickel - Oil and grease (visual) - pH - Total PAHs - Tributyltin - TSS - Zinc |

4.2.2 Continuous Water Quality Monitoring Results

A summary of the results for the continuous water quality monitoring in the harbour is presented below in Table 4-5. Further details for exceedances as indicated below are provided in Appendix B.

Table 4-5 Harbour water quality – Continuous monitoring results

| Monitoring location | Statistic | Results - based on individual 15-minute median | | | | |
|-------------------------------|------------------------------------|--|----------------------|-----|---------------------------------|-------------------------|
| | | Turbidity (NTU) | Temperature (Deg. C) | pH | Electrical conductivity (uS/cm) | Dissolved Oxygen (%sat) |
| Criteria | | 50 + BG ¹ | N/A | N/A | N/A | N/A |
| WQM1 / EPL 1 | Average | 12.0 | 23.7 | 8.1 | 39483.7 | 86.6 |
| | Minimum | 2.6 | 20.9 | 7.4 | 3670.6 | 73.5 |
| | Maximum | 480.9 | 26.7 | 8.3 | 51013.8 | 102.0 |
| | Events above criteria ² | 6 | - | - | - | - |
| WQM2 / EPL 16 | Average | 4.4 | 23.4 | 8.2 | 46953.4 | 90.3 |
| | Minimum | 1.8 | 17.1 | 7.8 | 21471.3 | 79.9 |
| | Maximum | 37.0 | 26.0 | 8.3 | 49911.7 | 112.4 |
| | Events above criteria ² | 0 | - | - | - | - |
| WQM3 / EPL 17 | Average | 11.5 | 23.7 | 8.1 | 41273.2 | 90.2 |
| | Minimum | 1.3 | 17.7 | 7.3 | 7368.1 | 78.9 |
| | Maximum | 240.7 | 27.3 | 8.3 | 51137.3 | 108.7 |
| | Events above criteria ² | 7 | - | - | - | - |
| WQM4 / EPL 18 (Background) | Average | 6.9 | 23.4 | 8.1 | 45020.4 | 90.4 |
| | Minimum | 1.5 | 21.4 | 7.5 | 13553.0 | 80.0 |
| | Maximum | 305.3 | 25.6 | 8.3 | 51783.1 | 109.7 |
| WQM5 / EPL 19 (Background) | Average | 46.6 | 24.9 | 8.0 | 37660.5 | 93.9 |
| | Minimum | 0.0 | 19.4 | 7.3 | 3156.3 | 0.6 |
| | Maximum | 1348.4 | 31.0 | 8.5 | 51021.2 | 106.7 |

¹The Stage 2A performance criteria is only set for total suspended solids (TSS). This parameter is monitored in real time using turbidity in NTU and the NTU-TSS correlation as recommended in the current EPL No. 21529 or from in-field study approved by the EPA, whichever is more appropriate at the time of measurement.

²Includes number of days where results exceeded performance criteria. Refer to Appendix B for exceedance reports.



4.2.3 Water Quality Monitoring Results – Port Kembla Harbour Grab Samples

A summary of the results for the Port Kembla Harbour weekly grab samples is presented below in **Error! Not a valid bookmark self-reference.** Further details for exceedances as indicated below are provided in Appendix B.

Table 4-6 Harbour water quality – Weekly grab sample results summary

| Monitoring Location | Statistic | Aluminium ³ | Anthracene | Arsenic | Benzo(a)pyrene | Cadmium | Chromium (total) ³ | Cobalt | Copper ³ | Lead | Mercury | Naphthalene | Nickel ³ | Total PAHs | Total Suspended Solids (TSS) ³ | Tributyltin | Zinc ³ |
|---------------------|------------------------------------|------------------------|------------|---------|----------------|---------|-------------------------------|--------|---------------------|------|---------|-------------|---------------------|------------|---|-------------|-------------------|
| Unit | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | Ug/L | ug/L | ug/L | ug/L | mg/L | ngSn/L | ug/L |
| Criteria | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 50 + BG ² | N/A | N/A |
| WQM1/ EPL 1 | Average | 5.50 | <0.1 | 1.75 | <0.05 | <1 | 0.60 | <1 | 2.25 | <0.2 | <0.1 | <0.1 | 0.56 | <0.05 | 8.20 | <2 | 6.20 |
| | Minimum | <5 | <0.1 | 1.50 | <0.05 | <1 | <0.5 | <1 | <1 | <0.2 | <0.1 | <0.1 | <0.5 | <0.05 | <5 | <2 | <5 |
| | Maximum | 7.00 | <0.1 | 2.10 | <0.05 | <1 | 0.90 | <1 | 5.00 | <0.2 | <0.1 | <0.1 | 0.80 | <0.05 | 21.00 | <2 | 11.00 |
| | Events above criteria ¹ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WQM2/ EPL16 | Average | 6.25 | <0.1 | 1.78 | <0.05 | <1 | 0.45 | <1 | 2.35 | <0.2 | <0.1 | <0.1 | 0.70 | <0.05 | 6.40 | <2 | 4.80 |
| | Minimum | <5 | <0.1 | 1.60 | <0.05 | <1 | 0.30 | <1 | <1 | <0.2 | <0.1 | <0.1 | <0.5 | <0.05 | <5 | <2 | 4.00 |
| | Maximum | 10.00 | <0.1 | 2.10 | <0.05 | <1 | 0.50 | <1 | 6.40 | <0.2 | <0.1 | <0.1 | 1.50 | <0.05 | 12.00 | <2 | 5.00 |
| | Events above criteria ¹ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WQM3/ EPL17 | Average | 5.50 | <0.1 | 1.58 | <0.05 | <1 | 0.48 | <1 | 2.03 | <0.2 | <0.1 | <0.1 | 0.88 | <0.05 | 7.20 | <2 | 5.00 |
| | Minimum | <5 | <0.1 | 1.40 | <0.05 | <1 | 0.40 | <1 | <1 | <0.2 | <0.1 | <0.1 | <0.5 | <0.05 | <5 | <2 | <5 |
| | Maximum | 7.00 | <0.1 | 1.70 | <0.05 | <1 | 0.50 | <1 | 5.10 | <0.2 | <0.1 | <0.1 | 2.20 | <0.05 | 16.00 | <2 | 5.00 |
| | Events above criteria ¹ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WQM4/ EPL18 | Average | 6.00 | <0.1 | 1.73 | <0.05 | <1 | 0.48 | <1 | 1.75 | <0.2 | <0.1 | <0.1 | 0.84 | <0.05 | 9.80 | <2 | 5.00 |
| | Minimum | <5 | <0.1 | 1.60 | <0.05 | <1 | 0.40 | <1 | <1 | <0.2 | <0.1 | <0.1 | <0.5 | <0.05 | <5 | <2 | <5 |
| | Maximum | 9.00 | <0.1 | 1.90 | <0.05 | <1 | 0.50 | <1 | 4.00 | <0.2 | <0.1 | <0.1 | 1.80 | <0.05 | 29.00 | <2 | 5.00 |
| WQM5/ EPL19 | Average | 5.25 | <0.1 | 1.58 | <0.05 | <1 | 0.55 | <1 | 2.45 | <0.2 | <0.1 | <0.1 | 0.86 | <0.05 | 29.40 | <2 | 4.80 |
| | Minimum | <5 | <0.1 | 1.40 | <0.05 | <1 | <0.5 | <1 | <1 | <0.2 | <0.1 | <0.1 | <0.5 | <0.05 | <5 | <2 | 4.00 |
| | Maximum | 6.00 | <0.1 | 1.80 | <0.05 | <1 | 0.70 | <1 | 4.80 | <0.2 | <0.1 | <0.1 | 1.70 | <0.05 | 110.00 | <2 | 5.00 |

¹Includes individual number of times results exceeded background. Refer to Appendix B for exceedance reports.

²BG = Background (WQM4 / WQM5)

³In place of a non-detect, the Limit of Reporting (LOR) for this analyte and method has been substituted to calculate the listed statistics.



4.2.4 Water Quality Monitoring Results – Sediment basin discharge

During the reporting month, there were seventeen (17) authorised discharge events and three (3) discharge events as a result of excessive rainfall exceeding the design criteria of the basin (>43.5 mm in any 5-day period). Refer to Section 4.3 for site weather monitoring details. The date of the events and a summary of the water quality results for the authorised discharge events from the sediment basin is included below in Table 4-7.

Table 4-7 Sediment basin discharge water quality – Pre-discharge and daily grab sample results

| Date of discharge/ sampling | Aluminium | Arsenic | Cadmium | Chromium | Cobalt | Copper | Lead | Mercury | Nickel | Zinc | Tributyltin | TSS | pH | Oil & Grease | Total PAH | Overflow Discharge | Rainfall (mm) | Roll. 5-day |
|--------------------------------|-----------|---------|---------|----------|--------|--------|------|---------|--------|------|----------------|------|------|--------------|-----------|--------------------|---------------|-------------|
| | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | - | - | µg/L | - | mm | |
| Criteria | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 50 | NA | Visible | NA | NA | NA | NA |
| 01/03/2022 | 734 | 0.9 | <0.05 | 3.0 | <0.1 | 1.1 | <0.1 | <0.1 | <0.5 | <1 | <2 | <5 | 7.97 | <5 | <0.05 | N | - | |
| 02/03/2022 | 742 | 1.0 | <0.05 | 3.2 | <0.1 | 0.8 | <0.1 | <0.1 | <0.5 | <1 | <2 | 6 | 7.74 | <5 | <0.05 | Y | 138.6 | |
| 03/03/2022 | 196 | 0.4 | <0.05 | 2.6 | <0.1 | 1.7 | <0.1 | <0.1 | 0.6 | 2 | <2 | <5 | 7.27 | <5 | <0.05 | Y | 118.6 | |
| 04/03/2022 | 238 | 1.0 | <0.05 | 2.5 | <0.1 | 1.8 | <0.1 | <0.1 | <0.5 | <1 | <2 | <5 | 7.25 | <5 | <0.05 | N | - | |
| 05/03/2022 | 36 | 0.3 | <0.05 | 2.5 | <0.1 | 0.7 | <0.1 | <0.1 | 1.2 | 3 | <2 | <5 | 7.39 | <5 | <0.05 | N | - | |
| 08/03/2022 | 1340 | 1.2 | <0.05 | 2.0 | <0.1 | 0.8 | <0.1 | <0.1 | <0.5 | <1 | <2 | <5 | 8.66 | <5 | <0.05 | Y | 343.5 | |
| 09/03/2022 | 861 | 0.6 | <0.05 | 2.0 | 0.1 | 1.1 | <0.1 | <0.1 | <0.5 | <1 | <2 | <5 | 7.53 | <5 | <0.05 | N | - | |
| 10/03/2022 | 759 | 0.8 | <0.05 | 2.2 | <0.1 | 0.6 | <0.1 | <0.1 | <0.5 | <1 | <2 | <5 | 7.39 | 6 | <0.05 | N | - | |
| 11/03/2022 | 421 | 0.6 | <0.05 | 1.9 | <0.1 | <0.5 | <0.1 | <0.1 | <0.5 | 2 | <2 | <5 | 7.13 | <5 | <0.05 | N | - | |
| 14/03/2022 | 23 | 0.3 | <0.05 | 2.0 | <0.1 | 1.5 | <0.1 | <0.1 | <0.5 | 5 | <2 | 8 | 7.09 | <5 | <0.05 | N | - | |
| 15/03/2022 | 30 | 0.4 | <0.05 | 2.1 | 0.1 | 1.4 | <0.1 | <0.1 | <0.5 | 3 | - ¹ | 10 | 7.52 | <5 | <0.05 | N | - | |
| 16/03/2022 | 33 | 0.5 | <0.05 | 2.2 | 0.4 | 1.2 | <0.1 | <0.1 | 0.5 | 4 | - ¹ | 8 | 7.53 | <5 | <0.05 | N | - | |
| 21/03/2022 | 31 | 0.5 | <0.05 | 2.2 | <0.1 | 0.6 | <0.1 | <0.1 | 1.0 | 4 | <2 | <5 | 7.13 | <5 | <0.05 | N | - | |
| 22/03/2022 | 17 | 0.4 | <0.05 | 2.2 | <0.1 | 0.8 | <0.1 | <0.1 | <0.5 | 3 | <2 | <5 | 7.50 | <5 | <0.05 | N | - | |
| 24/03/2022 | 10 | 0.5 | <0.05 | 2.0 | 0.1 | 0.8 | <0.1 | <0.1 | <0.5 | 5 | <2 | <5 | 7.57 | <5 | <0.05 | N | - | |
| 25/03/2022 | 11 | 0.6 | <0.05 | 2.0 | <0.1 | 0.6 | <0.1 | <0.1 | <0.5 | 2 | <2 | 9 | 6.64 | <5 | <0.05 | N | - | |
| 28/03/2022 | 50 | 0.3 | <0.05 | 1.8 | <0.1 | 0.8 | <0.1 | <0.1 | <0.5 | 2 | <2 | <5 | 7.39 | <5 | <0.05 | N | - | |
| 29/03/2022 | 18 | 0.3 | <0.05 | 1.8 | <0.1 | 1.1 | <0.1 | <0.1 | 0.9 | 2 | <2 | 7 | 7.54 | <5 | <0.05 | Y | 158.8 | |
| 30/03/2022 | 23 | 0.2 | <0.05 | 1.4 | <0.1 | <0.5 | <0.1 | <0.1 | <0.5 | 1 | <2 | <5 | 7.15 | <5 | <0.05 | N | - | |
| 31/03/2022 | 33 | 0.3 | <0.05 | 1.7 | <0.1 | 1.0 | <0.1 | <0.1 | <0.5 | 2 | <2 | <5 | 7.71 | <5 | <0.05 | N | - | |

¹Not analysed due to insufficient sample volume.

4.3 Weather station results

Under the EPL (Condition M6.2), AIE is required to monitor and record temperature, humidity, wind direction, wind velocity and rainfall at either a project weather station, or through analysis of equivalent weather information obtained from the Australian Bureau of Meteorology.

AIE established and maintains a weather station for the project site located at the southern point of Berth 101 (EPL monitoring point 21) as shown in Figure of Appendix A. The data obtained from the onsite weather station for the reporting period is provided below in Table 4-8.

Table 4-8 Site weather station monitoring results summary

| Parameter | Unit of measure | Monthly statistic | Result EPL Point 21 |
|-----------------------|--------------------------|-------------------|------------------------|
| Wind velocity | m/s (15min average) | Average | 4.47 |
| | | Minimum | 0.03 |
| | | Maximum | 13.67 |
| Wind direction at 10m | Degrees (1hr average) | Average | 20.97 |
| Rainfall rate | mm/hr (1hr average) | Average | 0.98 |
| | | Minimum | 0.00 |
| | | Maximum | 32.00 |
| Rainfall (Total) | mm | Monthly total | 735.10 |
| Temperature | Degrees Celsius | Average | 20.97 |
| | | Minimum | 15.80 |
| | | Maximum | 26.50 |
| Humidity | % | Average | 84.74 |
| | | Minimum | 49.60 |
| | | Maximum | 100.00 |



5 Environmental complaints

A summary of environmental complaints received during the reporting month and follow-up close-out and or corrective actions are presented below in Table 5-1.

Table 5-1 Environmental complaints summary

| Date | Complaint No. | Nature of the complaint | Follow-up close-out and or corrective action |
|------|---------------|--|--|
| NA | NA | No environmental complaints received for the reporting month | NA |



Appendices

Appendix A - Monitoring location plan



| | | | | |
|---|--|--|---|---|
| <p>Paper Size ISO A4</p> <p>0 0.1 0.2 0.3 0.4 Kilometers</p> <p>Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 56</p> | | | <p>Australian Industrial Energy Port Kembla Gas Terminal</p> <p>EPL Licence Premises Stage 1</p> | <p>Project No. 21-27477 Revision No. - Date 04/06/2021</p> <p>FIGURE 1</p> |
|---|--|--|---|---|

Data source: Aerial imagery - nearmap, 2021 (image date 18/04/2018, date extracted 18/02/2019); General topo - NSW LPI DTD 2017 & 2015; Cadastre - NSW LPI DCDB 2017. Created by: sfoddy

Appendix B – Summary of Events Above Criteria

Each exceedance triggers an investigation including the evaluation of wind direction, comparison of upwind and downwind monitors at the time of the event. Dust prevention controls are continually being assessed to ensure their adequacy.

Air Monitoring Events Above Criteria

| Date | Location | Exceedance value (ug/m ³ /24 hours) | Investigation & Actions |
|--|----------|--|-------------------------|
| No events above criteria in reporting period | | | |

Water Monitoring Events Above Criteria

| Date | Location & Max. Value Recorded (NTU) | Max. Background Value (NTU) | Action Taken & Investigation Outcomes |
|------------|--------------------------------------|--------------------------------|--|
| 1/03/2022 | EPL1: 66 EPL17: 92 | EPL18: 15.66 EPL19: 226.58 | Reviewed background WQMB and shipping traffic. Elevated turbidity due to heavy rainfall. |
| 2/03/2022 | EPL1: 356 EPL17: 170 | EPL18: 36.13 EPL19: 872.49 | Reviewed background WQMB and shipping traffic. Elevated turbidity due to heavy rainfall. |
| 3/03/2022 | EPL1: 58 | EPL18: 23.01 EPL19: 306.19 | Reviewed background WQMB and shipping traffic. Elevated turbidity due to heavy rainfall. |
| 6/03/2022 | EPL1: 96 EPL17: 169 | EPL18: 62.61 EPL19: 835.76 | Reviewed background WQMB and shipping traffic. Elevated turbidity due to heavy rainfall. |
| 7/03/2022 | EPL1: 926 EPL17: 373 | EPL18: 36.35 EPL19: 654.89 | Reviewed background WQMB and shipping traffic. Elevated turbidity due to heavy rainfall. |
| 8/03/2022 | EPL1: 684 EPL17: 278 | EPL18: 305.29 EPL19: 402.49 | Reviewed background WQMB and shipping traffic. Elevated turbidity due to heavy rainfall. |
| 26/03/2022 | EPL17: 57 | EPL18: 12.38 EPL19: 163.22 | Reviewed background WQMB and shipping traffic. Elevated turbidity due to heavy rainfall. |
| 29/03/2022 | EPL17: 115 | EPL18: 16.47 EPL19: 547.60 | Reviewed background WQMB and shipping traffic. Elevated turbidity due to heavy rainfall. |