



6 December 2022

Ref: 2103.02_02

Department of Planning and Environment (DPE)

Environmental Representative (ER) Quarterly Report
Project: SSD-10448 – Aspect Industrial Estate
Period: September to November 2022

Condition C31(k) of the Conditions of Approval for the Project requires the ER to prepare and submit to the Secretary and other relevant regulatory agencies, for information, an Environmental Representative Quarterly Report.

The attached report details the activities undertaken by the ER for the nominated period, in accordance with the Environmental Representative Protocol, May 2020.

Yours sincerely,

Maurice Pignatelli
Environmental Representative for Aspect Industrial Estate
OptimE Pty Ltd



Environmental Representative (ER) Quarterly Report

Project: SSD-10448 – Aspect Industrial Estate

Period: September to November 2022

- Key construction activities** Construction works during the reporting period included:
- Establishment of temporary compounds
 - Bulk earthworks across the entire site were ongoing
 - Demolition of existing buildings (houses and sheds) was completed
 - Vegetation removal and dewatering of the existing farm dams were ongoing.
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- Upcoming construction activities**
- Construction of access roads
 - Continuation of earthworks in future Lots 1, 2, 3, 8 & 9.
 - Construction of a warehouse at Lot 1
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- ER Activities (site inspections and audits)**
- 7/9/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
 - 12/9/22 Site inspection with ER, Mirvac, WEM, CPESC (M Pignatelli)
 - 19/9/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
 - 26/9/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
 - 5/10/22 Site inspection with ER, Mirvac, WEM (B Bracken)
 - 12/10/22 Site inspection with ER, Mirvac, WEM (B Bracken)
 - 17/10/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
 - 26/10/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
 - 30/10/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
 - 7/11/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
 - 14/11/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
 - 21/11/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)
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Complaints received by project No complaints were recorded during the reporting period.

Environmental Incidents Incidents are defined by the Approval as *“An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not cause non-compliance”*.

No incidents were recorded during the reporting period.

- Environmental non-compliances** Two non-compliances were identified during the reporting period.
- NC 221017-01 identified by the ER on 17/10/22 pertaining to discharge of water from the site (see below)
 - WEM self-reported noncompliance on 29/11/22 pertaining to a visitor accessing the site contrary to site rules.

Both non-compliances have been closed out by WEM and appropriate controls have been implemented.

**Lessons learnt/
Opportunities for
Improvement**

NIL

**Changes to
Project Plans/
Approvals**

The following updates to the Plans were submitted to DPE for approval:

- ASPECT INDUSTRIAL ESTATE Construction Environmental Management Plan, Stage 1 - BEW & Infrastructure, 610.19127-R04-v1.6, 23 Nov 2022
- ASPECT INDUSTRIAL ESTATE Construction Air Quality Management Plan, 610.19127-R03, Version No: -v1.4, November 2022
- ASPECT INDUSTRIAL ESTATE Construction Noise and Vibration Management Plan, 610.19127-R05, Version No: -v2.1, Nov 2022

**Meetings
attended by ER**

- Refer to site inspections
- Introduction telephone call to Gabriel Shaw-Peters (DPE) on 4/11/22

**Documents
received by ER
for review**

- AIE complaints register summary sheet (September-November 2022)
- WEM site conditions and weather report via email dated 6/10/22
- WEM site conditions and weather report via email dated 10/10/22
- Progressive ERSED control Plan dated 26/09/22
- WEM close out of non-compliance and corrective actions in the reporting period generated by ER inspections
- Notification to DPE of incident dated 17/10/22, ErSed letter dated 21/10/22
- Independent Inspection of Erosion and Sediment Control, Aspect Industrial Estate Stage 1, Kemps Creek; 18 October 2022 letter report by SEEC
- WEM Toolbox records and dewatering checklist following Non-compliance dated 17/10/22.
- ASPECT INDUSTRIAL ESTATE Construction Environmental Management Plan, Stage 1 - BEW & Infrastructure, 610.19127-R04-v1.6, 23 Nov 2022
- ASPECT INDUSTRIAL ESTATE Construction Air Quality Management Plan, 610.19127-R03, Version No: -v1.4, November 2022
- ASPECT INDUSTRIAL ESTATE Construction Noise and Vibration Management Plan, 610.19127-R05, Version No: -v2.1, Nov 2022
- ASPECT INDUSTRIAL ESTATE SSD 10448, Construction Compliance Report, 22004-RPT-CCR1-0-20221811, dated 18/11/22 including monitoring data for:
 - Noise and vibration
 - Air quality (Particulate)
 - Construction traffic and access
- SLR Reports, Dust Deposition Monitoring for:
 - 3 August 2022 to 31 August
 - 31 August 2022 to 4 October 2022.
 - 4 October 2022 to 1 November 2022
- DPE letter dated 28/11/22 - Aspect Industrial Estate - Construction Compliance Report - Nov 2022 (SSD-10448)
- DPE letter dated 29/11/22 - Aspect Industrial Estate – Extension Request in relation to Condition D7.

Documents issued by ER	<ul style="list-style-type: none"> • ER inspection reports (weekly) • 2103.02 AIE Quarterly Report June to August 2022 • Preliminary review (dated 3/12/22) of Construction Air Quality Management Plan, 610.19127-R03, Version No: -v1.4, November 2022
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Requests or CARs issued by ER

One non-compliance was raised during the reporting period:

NC 221017-01	Sediment laden water was discharging off the site via an unauthorised pumped flow from Dam 1.
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The non-compliance was reported to DPE and promptly closed out by WEM.

The following corrective actions were raised during the reporting period:

CA 221026-01	Review the constructed bunds to ensure they are consistent with the minimum structural requirements, as specified by the ESCP.
CA 221026-02	Provide a physical barrier along the eastern boundary (southern area), to prevent water from the site's dirty water catchments entering the clean water diversion channel. This may take the form of a formalised bund or grading the disturbed areas back into the site and away from the channel.
CA 221017-01	Toolbox the site's dewatering procedures to ensure unauthorised discharges do not re-occur.
CA 221017-02	Review the site's dewatering procedures to ensure more frequent and direct supervision of the dewatering process including, regular testing of the discharge to ensure it stays within the discharge criteria.
CA 221017-03	Seek advise from the WEM CPESC to establish an erosion and sediment control strategy for the north-western corner of the site, taking into consideration the high level of activity and the frequently changing site levels at this location. Implement the strategy.
CA 220919-01	<p>Review dust management on site including:</p> <ul style="list-style-type: none"> • the number of water carts operational at any one time • servicing of all dust generating activities including the scraper circuit (not just that haul road) • number and speed of haul vehicles • triggers for mobilisation of water carts to areas of need. <p>Please provide a response detailing the proposed additional controls</p>

All corrective action were promptly closed out by WEM.

**Review of
monitoring
results by ER**

Monitoring data reviewed was presented in ASPECT INDUSTRIAL ESTATE SSD 10448, Construction Compliance Report, Nov 2022 for the project up to 31/10/22.

Environmental monitoring on the site is undertaken by the Bulk Earthworks Contractor, Western Earth Moving (WEM).

Real time noise monitoring

WEM established a real time noise monitoring network (SiteHive) with six locations around the site and have been running continuously during the reporting period.

Average LAeq levels at L01 – L05 during the day period, when construction works are occurring, have exceeded the NML at the property boundary. However, the LAeq at the nearest sensitive receivers is being achieved. The LAeq levels at LO6 West Neighbours also exceeded the NML, however the noise levels are being impacted by traffic noise on Mamre Road.

The results indicate that the daytime noise levels (when construction activities are occurring) are occurring at an acceptable noise level. The evening and night-time averages are consistently above the evening and night period NML at all monitoring locations, however no works are occurring at this time. This is indicative of the background traffic noise impact of Mamre Road.

Attended noise monitoring

No attended noise monitoring was undertaken within the reporting period.

Vibration

No vibration monitoring was undertaken within the reporting period.

Dust Deposition (Available data August to October 2022)

A network of dust deposition gauges has been established to monitor for nuisance dust as NSW EPA Criterion of Nuisance Dust Deposition. In August 2022 and September 2022, dust deposition rates were above the project criterion of 4 g/m²/month at:

- DDG1. This location was established at the commencement of the project in the centre of the site and surrounded by construction activity therefore, not representative of off-site impacts. DDG1 was relocated to the eastern boundary at the commencement of October 2022.

Dust deposition rates in October 2022 were above the NSW EPA criterion of 4 g/m²/month at:

- DDG 2 (Southern boundary) with 5.5 g/m²/month
- DDG 3 (Northern boundary) 7.4 g/m²/month.

Whilst the EPA criterion is strictly applied for assessing the annual average dust deposition rate, it provides a good indicator of nuisance dust at the boundary of the site.

Particulate matter

WEM have established a real time dust monitoring network (SiteHive) with six unattended air particulate monitoring devices located around the site and have been running continuously during the reporting period. The SiteHive devices measure PM₁₀ and PM_{2.5} (ug/m³) in 15-minute increments 24hrs a day. The data is relayed to an online portal and provides notifications when the 1hr averaging period dust criteria (190ug/m³) is exceeded, allowing WEM to investigate and mitigate the causes of elevated dust generation in real time.

The SiteHive devices reported exceedances of the daily dust criteria at one or more locations on 31 days during the reporting period however, these were primarily attributable to misreading of condensation at night. Six days were identified from the dataset when the daily target was exceeded as a result of exceedance primarily during the construction hours. Four exceedances occurred directly adjacent to the main access driveway and two exceedances on the southern boundary.

WEM concluded that the scale of the earthworks and other contributing activities to local dust levels (Mamre Road and other construction works in the precinct) these results reflect good performance by WEM to control dust during the demolition works, topsoil stripping and commencement of bulk earthworks. In recognition of the instances where the dust criteria was not achieved, WEM advised they would continue to monitor performance and seek measures to further improve their dust control during the construction of the AIE.

Construction Traffic and Access

The number of vehicle movements experienced by the project on a daily basis were below the number forecast by the approved CTMP.

Photographs

Erosion and sediment control

WEM have established robust clean water diversion drains along its north-western and eastern boundary to delineate clean and dirty areas of the site (Photo 7/11/22).



Dust mitigation

Two water carts were on constant rotation wetting down haul roads and other work areas to minimise the generation of dust. (Photo 21/11/22).



Dust mitigation

Despite strong wind gusts, areas of the site that were not being worked, including the recently compacted Pad1, embankments and other disturbed areas were not generating dust (photo 21/11/22).



Dust mitigation

Localised dust was being generated at the site by plant and equipment. WEM advised that it monitors and applies triggers to "stop work" due to dust, if required (photo 21/11/22).



Dewatering

Dam 1 was almost completely dewatered (photo 21/11/22)



End.