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Boral Recycling Widemere Annual Review

25 November 2021 - 24 November 2022

Lot 4001
DP 1173524
Widemere Road
Wetherill Park

Development Consent SSD 6525





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Ref	Prepared by	Approved by	Date	Amendments	Distribution
V1.0	Sharon Makin Environment Business Partner NSW/ACT	Phillip Patterson Recycling Manager NSW/ACT	May 2023		Initial draft for internal distribution for review



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Name of operation	Boral Recycling Widemere
Name of operator	Boral Resources (NSW) Pty Ltd
Development consent	SSD 6525
Name of holder of development consent	Boral Resources (NSW) Pty Ltd
Annual Review start date	25 November 2021
Annual Review end date	24 November 2022
I, Philip Paterson, certify that this audit is a true and accurate record of the compliance statuses of the Boral Recycling Widemere Project for the period of the 2022 Reporting Period and that I am authorised to make this statement on behalf of Boral Resources (NSW) Pty Ltd.	
<p>Note</p> <p>The annual review is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual \$250,000.</p>	
Name of authorised reporting officer	Sharon Makin on behalf Philip Paterson (Recycling Manager NSW/ACT)
Title of authorised reporting officer	Environment Business Partner
Signature	
Date	31/5/2023



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1. Introduction

1.1 Background

Boral's Widemere Recycling facility (the facility) is located on Widemere Road, Wetherill Park. The facility is a construction and demolition waste recycling facility and produces a range of recycled products including road bases, aggregates and sands.

On 25th November 2002, The Minister for Planning granted development consent for a Construction and Demolition Materials Recycling Facility DA-21-1-2002-I. This was subsequently constructed and Boral Recycling Pty. Ltd. (Boral) commenced operations in July 2003.

On 17 November 2005 the site's development consent was modified (MOD-126-8-2005-I) to increase the capacity of the facility, alter operating hours and gain approval to install a blending plant. The blending plant was installed in early 2008.

On 25 November 2016, a new state significant development consent (SSD 6525) was issued by the NSW Department of Planning and Environment. This consent increased the capacity of the facility to receive or process up to 1,000,000 tonnes of waste per annum.

The commencement of the expanded operations occurred in November 2021, triggering a number of environmental reviews.

1.2 Purpose/Scope

This report has been prepared to address Annual Review (AR) requirements in accordance with Schedule D, condition D9 of Development Consent SSD 6525. Condition D9 is outlined below in Table 1, with reference to the section where an Annual Review requirement has been addressed in this document. This report accounts for the 12-month period between 25th of November 2021 and 24th November 2022 (the 'reporting period').



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Table 1 Consent condition addressed in document

Condition	Condition Requirements	Where addressed in this report
D9	Within one year of the date of this consent, and every year thereafter, the Applicant shall review the environmental performance of the Development to the satisfaction of the Secretary. This review must:	Section 4
D9 (a)	Describe the Development that was carried out in the previous calendar year, and the Development that is proposed to be carried out over the next year;	Section 3
D9 (b)	(b) Include a comprehensive review of the monitoring results and complaints records of the Development over the previous calendar year, which includes a comparison of these results against the:	Section 4
D9 (b)(i)	The relevant statutory requirements, limits or performance measures/criteria;	Section 4
D9 (b)(ii)	Requirements of any plan or program required under this consent;	Section 4
D9 (b)(iii)	The monitoring results of previous years; and	Section 4.2
D9 (b)(iv)	(iv) The relevant predictions in the EIS;	Section 6
D9 (c)	Identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Section 5
D9 (d)	Identify any trends in the monitoring data over the life of the Development;	Section 8
D9 (e)	Identify any discrepancies between the predicted and actual impacts of the Development, and analyse the potential cause of any significant discrepancies; and	Section 8
D9 (f)	Describe what measures will be implemented over the next year to improve the environmental performance of the Development.	Section 3.4

2. Statement of Compliance

The statement of compliance for the current reporting period (25 November 2021 – 24 November 2022) is contained in Table 2 below:

Table 2 - Statement of Compliance

Were all conditions of the relevant approval(s) complied with?	
SSD 6525	Yes

No non-compliances with the conditions of SSD 6525 were identified in the reporting period arising from Widemere recycling development activities.

Therefore, the DPE Annual Review Guidelines Compliance Status key as outlined in Table 3 below, does not need to be applied.

Table 3 - DPE Annual Review Guidelines Compliance Status key

Risk Level	Colour Code	Description
High	Non-compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non-compliant	Non-compliance with: <ul style="list-style-type: none"> • potential for serious environmental consequences, but is unlikely to occur; or • potential for moderate environmental consequences, but is likely to occur
Low	Non-compliant	Non-compliance with: <ul style="list-style-type: none"> • potential for moderate environmental consequences, but is unlikely to occur; or • potential for low environmental consequences, but is likely to occur
Administrative	Non-compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

Copies of the AR will be submitted to the DPE and, once approved, made available to the public at on the Boral Recycling Widemere operations website.

<https://www.boral.com.au/locations/boral-recycling-widemere-wetherill-park>

Key contacts associated with the management of the Boral Recycling Widemere, environment, safety and stakeholder relationships are provided in Table 4.

Table 4 - Site contacts Widemere Recycling Facility

Contact	Position	Contact Details
Adrian Preece	Widemere Site Manager	(02) 9604 9101 Email: Adrian.Preece@boral.com.au
Philip Paterson	Recycling Operations Manager NSW/ACT	(02) 9604 9101 Email: Philip.paterson@boral.com.au
Lauren Sibigroth	Environment Business Partner NSW/ACT	Tel: (0401895790 Email: Lauren Sibigroth@boral.com.au
Kate Woodbridge	Stakeholder Relations Manager	Tel: (02) 9033 5215 Email: kate.woodbridge@boral.com.au

3. Development overview

3.1 Widemere Recycling Operations

The Widemere Recycling Facility, owned and operated by Boral Resources (NSW) Pty Ltd, is located at Widemere Road, Wetherill Park in the Fairfield Council Local Government Area. The facility covers approximately 8 ha and comprises a weighbridge, office and amenities, spotter stations, receivals area, stockpiles, processing areas, water management areas and internal haul roads.

The facility is a construction and demolition waste recycling facility and separates, crushes and blends construction and demolition waste with quarry material to produce a range of recycled products including road bases, aggregates and sands.

The site was formerly a quarry between 1924 and 2002. From around 1975 to 1997 there was also an asphalt plant and associated stockpiling on the site. The site was used for stockpiling gravel and other construction materials from 1997 to 2002.

During the reporting period 778653 tonnes of material was received with 855814 tonnes sold after processing. A maximum of 262, 805T tonnes of material was stored on site at any one time during the current reporting period, which occurred during April 2022.

The relevant features of the site during the reporting period, including site location, on-site elements and a map of the affected area are depicted in Figures 1, 2 and 3, respectively.

Figure 1 - Widemere Recycling Location Map



Figure 2 - Widemere Recycling Reference Map





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Figure 3 - Widemere Recycling – Map of Affected Areas





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3.2 List of Relevant Approvals

A summary of all the relevant approvals relevant to the Widemere Recycling Facility are provided in Table 5 below:

Table 5 - Widemere Recycling Facilities Approvals

Approval Type	Approval Authority	Approval No.	Date Granted
Development Consent	Department of Planning & Environment	SSD 6525	25/11/2016
Environment Protection Licence	Environment Protection Authority	11815	21/02/2003

3.3 Operations over reporting period

Production at Widemere Recycling Facility during the reporting period was recorded at 817 631 tonnes. During the reporting period 778653 tonnes of material was received with 855814 tonnes sold after processing. A maximum of 262, 805T tonnes of material was stored on site at any one time during the current reporting period, which occurred during April 2022.

A total of 166 loads were rejected during the reporting period for loads that contained material that could not be accepted at the site.

During the previous reporting period, activities that would trigger the commencement of expanded operations (defined in SSD 6525 as “The point at which throughput exceeds 750,000 tonnes per annum of waste and receipt of additional waste streams occurs at the site”) occurred, whereupon a volume exceeding 750,000 tonnes for the relevant reporting period was exceeded on the 05 November 2021

In response, Boral reviewed all plans and procedures to confirm they adequately addressed any potential increased impacts associated with the increased volumes processed at the site.

Several plans were required to be prepared within 3 to 6 months of the trigger of commencement of expanded operations.

During the previous reporting period, an independent audit was commissioned and prepared by Molino Stewart, in accordance with Condition 10 of Schedule D of SSD-6525. The independent audit report found that the environmental performance of the project was good, and that Boral’s management has solid systems in place for the management of the development. The audit considered a total of 206 conditions of



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consent of which there were 320 separately assessable items derived from the conditions of consent.

A number of actions were required from the Audit findings with a status update for actions not completed in the previous reporting period provided in Table 6 below.

Table 6 – Recommended Actions List

Item No.#	Action Item Description	Action taken	By Whom	By When	Date Closed
Corrective Actions against non-compliances					
M6.1	Discharge monitoring should have occurred during discharge event. the EPA currently does not permit discharges and as such the condition is effectively not required. Note that the intent was to be to monitor controlled discharges and as such this needs to be updated if controlled discharges are to continue to be prevented. This should be negotiated with the EPA. Boral to correspond with EPA to negotiate the permissibility of discharges following the upgrade of the two basins onsite.	The EPA advised on the 20 September 2022, that the requirements of the 3 PRPS had been satisfied. An additional PRP has been discussed for the “validation of Implemented mitigation measures”	Environment Business Partner	29 th February 2024	
Points for improvement					
C31	Requirements relating to the certification of clay liners have effectively been superseded by the construction of new sediment basins onsite. As such, the proponent should liaise with DPIE to arrange suitable resolution to the condition requirements	Boral to engage with DPE concerning the relevance of the condition given the removal of the clay liner and replacement with HDPE liner. Boral waits feedback from DPE in this regard.	Environment Business Partner	Ongoing (31 December 2023)	



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Item No.#	Action Item Description	Action taken	By Whom	By When	Date Closed
C38	The Groundwater Monitoring Program has not yet been approved. However, it was noted during this audit that consultation with the EPA had not yet occurred. It is recommended that the proponent incorporates consultation undertaken with EPA in the updated Groundwater Monitoring Program.	Boral has consulted with the EPA on the GMP, as well as DPE, following a request for further information in June 2022. Information was supplied.	Environment Business Partner	Complete	Closed
U1.7	The Surface Water Mitigation and Monitoring Plan has not yet been finalised or approved by the EPA. However, a preliminary review undertaken during this audit noted that the method of monitoring as required by condition c(vii) of U1.7 was not included. This should be amended to include all relevant items in the condition when the plan is finalised	The EPA advised on the 20 September 2022, that the requirements of the 3 PRPS, including the preparation of the SWMMP had been satisfied.	Environment Business Partner	Complete	

The 2021 AEMR, identified a number of items to be addressed in the following reporting period to which this AEMR refers. These items are listed in Table 7 – 2021 AEMR Actions.

Table 7 2021 AEMR Actions

Action	Status
Within three months of completion of six months of initial groundwater monitoring during expanded operations, a groundwater monitoring report will be prepared in accordance with Condition C38 of the facility's current development approval. A copy of the groundwater monitoring report will be submitted to the Secretary and the EPA.	The groundwater monitoring plan was submitted to the DPE and EPA in April 2022.
An air quality audit will be conducted within 6 months of the expanded operations trigger and submitted to the Secretary.	The Air quality audit was submitted to the DPE in August 2022. DPE acknowledged receipt of the report and implementation of the recommendations in November 2022.
Responsive noise monitoring will be undertaken during the next reporting period to confirm the expanded operations have not increased the potential noise impact to nearby sensitive receivers.	Noise monitoring was undertaken in November and December 2022 in preparation for the Modification application. Additional monitoring to assess the potential noise impact will be conducted in the 2023 reporting period.
The driver code of conduct for heavy vehicles will be implemented and submitted to the Secretary for approval within 3 months of the expanded operations trigger.	The Driver Code of Conduct was submitted to the DPE in February 2022.
The Pollution Reduction Program currently in place on EPL 11815 has been advanced to satisfy the relevant sub-conditions under condition U1 of the licence. Specifically a revised Surface Water Monitoring and Mitigation Plan (SWMMP) was submitted to the NSW EPA 11 August 2021 to satisfy conditions U1.5 to U1.9 of the EPL 11815	The EPA advised on the 20 September 2022, that the requirements of the 3 PRPS had been satisfied. An additional PRP has been discussed for the "validation of Implemented mitigation measures"



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Physical controls implemented on-site during the current reporting period are summarised below.

- Installation of southern haul road sprinklers (Figure 4)
- Installation of western haul road sprinklers (Figure 6)
- Regrade of eastern haul road (Figure 5)
- Targeted dust suppression at the impactor crusher
- Replacement of older heavy machinery with three (3) Front end loaders, which are more efficient and with less noise impacts.



Figure 4 – Additional Sprays on the Southern exit road



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Figure 5 Eastern exit road regrade



Figure 6 – Road sprays Haul road

Continued environmental compliance has been monitored through the use of the Environmental Permit Planner (EPP) tool, which is utilised as a monthly mini-audit tool covering environmental management, monitoring and regulatory compliance aspects relevant to the site. Further auditing of the process is achieved through EPP verifications, which are mini audits conducted by a non-site-based Boral employees to verify the EPP tasks are being conducted to an acceptable standard.

3.4 Proposed operations for next reporting period

Recycling operations are to continue without any proposed infrastructure changes for the 2022 – 2023 reporting period.



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An application for SEARs has been provided by the DPE in relation to a request for a modification in consideration of 24/7 operations and the installation of associated weighbridges and ancillaries.

A summary of the relevant conditions requiring further action in the next reporting period (2023 – 2024) is detailed in Section 9, Table 19. The results of which will be reported in the 2023 Annual Review.

4. Environmental monitoring results and complaints records

4.1 Relevant statutory requirements and performance criteria

4.1.1 Waste Monitoring

Appendix A of the OEMP, contains the waste monitoring program for the Widemere site.

The waste monitoring program addresses Condition C1 of SSD 6525 and details the methodologies and mitigation measures for waste monitoring at the site.

As materials are delivered to site, and prior to their acceptance and receipt on site, all materials are checked in accordance with the waste monitoring program along with the NSW EPA Minimum Standards for Managing Construction and Demolition Waste in NSW, including verification of their origin, as per the following checks:

- Undertaking independent checks on material origin prior to receipt on site. This includes ensuring compliance in relation to material separation and handling
- Verification of source materials by obtaining appropriate clearance certificates (e.g. site clearance audits, asbestos clearance) where required
- Monitoring and tracking of materials received on site by:
 - Truck registration; company name; driver signature; material origin and load weight
 - Visual inspection of loads (weighbridge & receipts area)
 - Rejecting and recording unsatisfactory loads and maintaining a 'rejected loads register' for loads that cannot be accepted on site



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The use of the Inspection and Receipts Protocol for recycling has been prepared for the site to ensure relevant legislative and approval requirements are met, this document is reviewed annually. The protocol details the actions to be taken in the event suspected contaminated material is encountered.

Boral Recycling retains the services of occupational hygiene contractors, to advise on matters relating to the safe handling of potential hazardous material in construction and demolition waste. The Widemere occupational hygiene contractor are Hibbs and Associates Pty Ltd.

A summary of the volumes of waste accepted at site for current reporting periods is summarised in Table 8. The table references the waste limits described in Condition L4 of EPL 11815.

Relevant condition	Waste Type	Limit	2022 data
L4.1	Garden waste	1,000 tonnes stockpiled onsite at any one time.	No garden waste is accepted on site. Any garden waste received is rejected and detailed in the rejected loads register
L4.1	Soils	Arsenic 40mg/kg; Cadmium 2mg/kg; Copper 200mg/kg; Mercury 1.5mg/kg; Zinc 600mg/kg; Petroleum Hydrocarbons C6-C9 150mg/kg; Petroleum Hydrocarbons C10-C36 1600mg/kg; Polycyclic aromatic hydrocarbons 80mg/kg; Polychlorinated biphenyls (individual) 1mg/kg. No Acid Sulfate Soil or Potential Acid Sulfate Soil is to be received at the Premises.	Yes 14962T received CT1 soil is pre-classified by an Independent geotechnical contractor prior to acceptance and copies of classification maintained and stored. No CT1 soils are accepted on site if they are not found to be compliant with limits described.
L4.2	The authorised amount of waste permitted on the premises cannot exceed 750,000 tonnes at any one time	750,000 tonnes of waste at any one time	Maximum amount stored onsite 262, 805 tonnes (April 2022)
L4.3	The Licensee must not receive on the Premises, more than 1,000,000 tonnes of waste per year.	1,000,000 tonnes of waste per year.	778653 tonnes of material was received during the 2022 reporting period.
L4.4	The height of any stockpile of any material on the Premises, must not exceed twenty (20) metres above ground level.	>20mAGL	Heights of stockpiles remain 20m below ground level, monitored using height marker on stabilisation plant, 6 monthly flyovers. Regular review identified in the EPP
L4.5	No asbestos waste is to be accepted or stored at the premises.	0	Any fibrous material detected during three point inspection protocol is rejected and details entered in the rejected load register stored on site.

Table 8—Compliance with EPL waste limits for material accepted and stored on site for the current reporting period



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4.1.2 Dust Management

Appendix C of the OEMP, contains the Dust Management Plan for the Widemere site (Ramboll Environ, November 2017). The Dust Management Plan addresses Condition C17 of SSD 6525 and details the methodologies and mitigation measures for dust and air quality management at the site.

Relevant monitoring requirements described in the Dust Management Plan are summarised below:

Condition M2 of the EPL identifies the air quality monitoring requirements for the facility, which are the monitoring of particulates (deposited matter), in accordance with method AM-19 (NSW EPA, 2007).

Dust deposition rates are recorded at two locations at the facility and are depicted in Figure 7:

DDG1 – southeast corner of site near the pond (site 2); and

DDG2 – southwest corner of the site (site 1).

For assessment against regulatory compliance, insoluble solids are compared to the criteria of $4\text{g}/\text{m}^2/\text{month}$ as an annual average. Therefore, a complete 12-month period of dust deposition monitoring is required to assess compliance.

For the purpose of the project, a sample with a high ash content relative to the insoluble solids may be indicative of the influence of emissions from the facility.

In the event of an insoluble solids result above the criteria obtained for an individual month, the following steps are taken:

- A review of the sample ash content is conducted,
- In the event that the sample information indicates that site operations were a contributing source (elevated ash content relative to insoluble solids content), meteorological conditions and operations during that month are reviewed, with the aim to identify the contributing emissions source or activity; and
- Applicable management practices will be reviewed and improved as required.

In regards to compliance with the requirements of the plan during the current reporting period, the data collected each month is presented as part of the pollution monitoring data for the site and uploaded to the Boral website (<https://www.boral.com.au/our-commitment/environmental-reporting>) within 14 days of the results being received from the NATA accredited laboratory.



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During the current reporting period, dust monitoring reporting was conducted in accordance with the Dust Management Plan with the data presented in Section 4.2.1. This includes review of the ash content of the samples when the insoluble content exceeded the 4g/m²/month criteria as described in Section 4.1.2.

Condition O6.3 of the EPL requires that a meteorological station is established and maintained onsite that complies with the requirements of the NSW EPA (2007). The location of the on-site meteorological station is depicted in Figure 7.

To ensure the ongoing effectiveness of measures described in the Dust Management Plan, the performance of all onsite mitigation measure technology is routinely checked and serviced to maintain ongoing performance to original specifications. Weekly site inspections are carried out by the site manager, site supervisors and leading hands, which are a visual inspection of sprays while they are operating. The weekly site inspections include checking that water sprays are on and that dust suppression measures are operating effectively in the stockpile yard. Any non-operational sprays are reported via the weekly inspection and repaired /replaced as required.

Mitigation of fugitive dust emissions on site has been an area of emphasis since the commencement of operations. Sources of dust include the crushing facility, materials stockpiles, vehicular movement on unsealed roads, and product transfer.

A number of existing controls are in place throughout the facility. The current dust controls used on site include:

- Watering all roads within the facility with a water cart. The water cart is equipped with a cannon which reaches to the vertical extent of stockpiles and power to wash and scrub hard surfaces
- Use of water sprays and sprinklers on stockpiles, receivals area, sales area, and on fixed plant
- Cessation or reduction in dust generating activities during periods of high potential for offsite dust migration e.g. high winds
- Wheel washing facilities (x 2), equipped with cattle grids, at raw materials exit (bottom wheel wash) and product sales exit (top wheel wash)
- Sealed internal roads from the wheel wash to the point of exit
- Primary feed bin sprays installed and operated manually
- Increased surface area of sealed internal roads and reparation of damaged roads (this is an ongoing process with the site undertaking works when a load of over-ordered, or out of RMS specification, hot mix asphalt is delivered to site)



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- Operational cameras installed around the site with video monitoring within the operations manager's office
- Impact crusher has been enclosed and fitted with a water misting system
- Water tank at receivals area to provide an independent water source to ensure adequate supply & coverage at all times
- Recycled water tanks installed on site to assist with site water management capacity and dust suppression
- The regular use of a street sweeper on the site and also along sections of Reconciliation Drive
- Back haul road use minimises dust creation from trucks
- Dust suppression pumps in dams to assist around the site
- New upgraded water collection/sediment dams have increased water storage capacity on site

As required upon the commencement of expanded operations, an air quality audit was conducted within 6 months of the expanded operations trigger (5 May 2022) and submitted to the Secretary.

The audit found

*“• mitigation measures implemented at the facility continue to align with accepted industry best practice, consistent with the findings of the 2017 BMPR;
• additional mitigation actions identified in the 2017 BMPR, specifically related to the secondary crusher and unpaved section of the perimeter haul road, have been included by Boral;
• Boral has included further mitigation measures at the facility, such as additional water sprays at the blending plant;
• based on limited data, the air quality predictions in the EIS appear to be generally consistent with recent monitoring results collected at the facility;
• no complaints have been received by Boral in relation to dust emissions or impacts from the facility since 2017; and
• several air quality actions and recommendation have been made for Boral’s consideration, including a review of existing dust deposition monitoring locations and rainfall monitoring, improvement to the secondary crusher spray system installation and the reduction of paved surface material loading.”*

The audit recommendations, status and Boral’s response are contained in Table 9.



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Table 9 Air Quality Audit recommendations and response

Audit recommendation	Boral's response	Action Timing
<p>6.1 Dust Deposition Monitoring Review the existing dust deposition monitoring network, including the ongoing value of undertaking the monitoring</p>	<p>Boral is currently reviewing options for the Dust deposition Monitoring Network, with the view that a more appropriate location, in the proximity of the current Meteorological Monitoring Station, will provide appropriate data and meet all installation guideline requirements of AS/NZS 3580.1.1:2016.</p> <p>Consultation is required with EPA to ensure new location is reflected in EPL</p>	<p>Revised timing of October 2024</p>
<p>6.2 Meteorological Monitoring Station A review of rainfall data indicated that there was potential for a sensor to be offline or faulty. This should be investigated by Boral and corrected as required</p>	<p>Boral can confirm that the Meteorological Monitoring Station was serviced and calibrated on the 11th August 2022 immediately following the Air Quality Audit and is fully functional</p>	<p>Completed</p>
<p>6.3 Secondary Crusher Water Spray It is recommended that a more robust permanent water spray solution is investigated for installation at the secondary crusher.</p>	<p>It is noted that following the 2022 site inspection, Boral have installed a robust, permanent spray bar system at the secondary crusher. While this spray system was not observed by EMM during the site inspection, it is considered that this installation by Boral will likely address the previous action recommendations</p>	<p>Completed</p>
<p>6.4 Secondary Crusher Water Spray It is recommended that priority is given to the clean-up of material around the processing circuit on an ongoing basis.</p>	<p>Boral has included the area around the processing circuit as part of the weekly inspection of the facility. Any build up of material in this area observed during these inspections are prioritised for clean up.</p>	<p>Completed</p>



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Boral provided a response to the recommendations to the DPE. All recommendations were addressed during the 2022 reporting period with the exception of the relocation of a dust monitoring gauge, which will be progressed in this reporting period.

4.1.3 Storm Water Management

The sedimentation basins installed in the south eastern corner of the site are designed to capture dry and wet weather flows. Markers have been installed to ensure that the capacities of the basins are maintained for a 90th percentile 5-day rainfall event.

No controlled discharges occurred over the reporting period (storm water detention basins are maintained to ensure adequate capacity to hold a 90th percentile rain event over 5 days). Water captured in the detention basins is reused on site for dust suppression or for use in the blending plant. The overflow pond, Dam 2, is maintained at levels that allow the maximum volume of water storage.

Water management system upgrades were completed in 2019, which included enhanced basins sizes with HDPE liners to meet the permeability requirements of the consent. Installation of an impervious HDPE liner, and additional water storage tank infrastructure have demonstrated that the water management system and operational practices are effective in restricting overflows to significant rainfall events, which generally comprise 120 mm or more of rainfall. When overflows do occur, they are expected and have been observed to cease within 1 to 2 days. As a result, overflows will only occur during periods of elevated streamflow in Prospect Creek, enabling rapid mixing and dilution to occur. Previous water sampling of Prospect Creek confirms this, providing evidence that any unmanaged discharge would be unlikely to cause or threaten material harm.

During the reporting period, unmanaged overflow events occurred on several occasions due to extreme rainfall events across the wider catchment when the 5-day rainfall event volume exceeded 120 mm. During this time, discharge water sampling from the designated discharge point was not possible due to safety concerns arising from the volume of water leaving the site due to the significant rainfall.

There is currently a Pollution Reduction Program (PRP) in place under the Environment Protection Licence EPL 11815, which prevents controlled discharge from occurring.

The EPA advised on the 20 September 2022, that the requirements of the 3 PRPS had been satisfied, including the SWMMP.



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An additional PRP associated with a licence variation is being discussed for the “validation of Implemented mitigation measures”, with a report due by the 29th February 2024.

4.1.4 Ground water

A groundwater monitoring network was installed in January 2017.

The objectives of the groundwater monitoring network were to assess the potential for leakage from the basins to groundwater and to gather baseline data to characterise the groundwater systems that the facility potentially impacts upon (alluvium and Bringelly Shale).

The monitoring network consists of four monitoring bores, two deep monitoring bores targeting the uppermost water bearing zones within the Bringelly Shale and two shallow monitoring bores to assess potential seepage from the basins.

A groundwater monitoring program commenced in January 2017. The program had the following two phases:

- **Initial Monitoring** – commenced in January 2017 and comprised five monthly samples collected from each of the four bores between January and May 2017. The objectives of the initial monitoring were to characterise the groundwater quality and identify any potential impacts to groundwater quality.
- **After Expanded Operations Monitoring** – The second phase of monitoring started close to the commencement of Expanded Operations and comprised three samples collected from each of the four bores between October 2021 and January 2022. The objectives of the monitoring were to identify:
 - any changes in groundwater quality due to the Expanded Operations or water management system modifications that were completed in mid-2019; and
 - any potential impacts to groundwater quality.

This second phase of monitoring complies with Condition C38 requiring a groundwater monitoring program to be undertaken within 6 months of the commencement of the expended operations.

The Groundwater Monitoring Program was issued to the DPE and the EPA in April 2022, in line with Condition C39 requiring the plan to be issued within 3 months of the completion of monitoring.

4.1.5 Noise Management

Initially noise modelling was undertaken and measured by EMM from 2nd to 15th May 2014 as part of the noise impact assessment (NIA) that accompanied the environmental impact statement, prepared to support the 2015 consent modification for increased capacity of the facility. Based on the NIA modelling results, it was determined that the noise emissions arising from the proposed modification would satisfy the project specific noise levels (PSNLs) at all assessment locations.

Operational noise limits provided in Condition C7 of Development Consent SSD 6525 are based on those limits provided in the NIA, as well as operational noise predictions and are consistent with those described in Condition L5.1 of EPL 11815. It is noted that there are no cumulative noise criteria specified in either the Development Consent SSD 6525 or EPL 11815 and no noise or vibration monitoring is required under EPL 11815.

The site-specific operational noise limits provided in the NMP and as per consent condition C.6 of SSD 6525 are outlined in Table 10 below.

Location	Day (7am – 6pm)	Evening (6pm – 10pm)	Night (10pm – 12am)		Morning shoulder (6am – 7am)
	L _{Aeq,15 minute}	L _{Aeq,15 minute}	L _{Aeq,15 minute}	L _{Fmax(15 minute)}	L _{Aeq,15 minute}
71 Munro St, Greystanes	39	38	35	50	39
146 Daruga Ave, Nelsons Ridge	35	35	35	50	35
Greystanes Estate – Future southern extent ¹	39	37	35	50	39

Notes:

1. Identified as Location R10 in Widemere Recycling Facility – Noise Impact Assessment (NIA) prepared by EMGA Mitchell McLennan (Ref J13127RP1 dated 27 April 2015).
2. Noise generated by the Development is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the Industrial Noise Policy.

Table 10 - Widemere Recycling Operational Noise Limits

There are a number of techniques that are used to minimise unnecessary noise on site. These are contained in the site's Noise Management Plan (NMP) which is included in Appendix B of the site Operational Environmental Management Plan (OEMP).

A number of noise management strategies in line with Condition C9 are employed on the site;

- Implementation of best management practices, including all reasonable and feasible noise management and mitigation measures to prevent and minimise operational, low frequency and traffic noise generated by the site.



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- Minimising the noise impacts of the development during adverse meteorological conditions.
- Maintaining the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired.
- Regularly assessing any noise monitoring data and relocate, modify and / or stop operations to ensure compliance.

From an operational perspective, some of the measures contained in the NMP, include:

- regular servicing and maintenance of fixed and mobile plant to ensure the equipment is operating to specification,
- incorporation of advanced and affordable technology to minimise noise from equipment, plant and machinery used on site,
- restricting movement of equipment on exposed areas,
- locating noisy equipment behind structures that act as barriers, or at the greatest distance from recognised noise sensitive areas,
- orienting equipment so that noise emissions are directed away from any sensitive areas,
- employing 'quiet' practices when operating equipment e.g. positioning idling trucks in appropriate areas,
- using low tonal reversing alarms (which limit the acoustic range of the warning) to warn of vehicles reversing,
- pursuing efficient muffler design on relevant equipment,
- barriers (in the form of freestanding walls, earth mounds or bunds or placing acoustically significant equipment in trenches or cuttings).

In November 2021, the expanded operations commenced, triggering the need to undertake noise monitoring to assess any potential impact of the operations.

Noise monitoring was undertaken in November and December 2022 as part of the assessment for Modification 2.

More monitoring will be undertaken in the 2023 reporting period focussed on assessing potential impacts from the expanded operations.



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4.1.6 Visual Controls

The OEMP covers the maintenance of bund walls, tree plantings, and minimising visual dust using water sprays. All of these have been managed over the last year, using landscape contractors to control weeds around the site and replant trees where required, and the use of sprinklers on exposed areas to reduce dust generation.

In accordance with the conditions of EPL 11815 (L4.4), the facility does not allow any stockpile heights greater than 20 m to ensure a safe working environment in operational areas and to maintain the visual amenity of the site.

The site previously planted a screen of trees to assist in enhancing the visual amenity along the site frontage. Weed control and regular plantings will be ongoing to ensure that this tree screen remains effective.

The site will continue to investigate other ongoing future planting and ongoing weed control.

4.1.7 Traffic Management

The OEMP covers internal traffic management and the loading and unloading of materials restricted to the property boundary. This is managed through the implementation of a traffic management plan which has separate internal routes for deliveries and sales. Additionally, there is a Transport Code of Conduct which identifies routes used by vehicles entering and exiting the site, as well as expected driver behaviour.

The OEMP stipulates that vehicle speeds on unsealed areas are to be kept to a practical minimum to avoid dust emissions and internal roads are continually sprayed using a water cart.

The Traffic and Pedestrian management system was updated for the site in 2020. This is to ensure pedestrians moving around the site are safe and separate to the traffic of vehicles driving around the site. Continuous improvements of the Traffic and Pedestrian management system continued during the 2022 reporting period.

As per the consent condition C54, the driver code of conduct for heavy vehicles was implemented and submitted to the Department for approval within 3 months of the commencement of expanded operations (5 February 2022).



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4.1.8 Site Security

All fencing around the site is maintained to restrict unauthorised access to the site as per the OEMP. A security contractor performs random patrols on the property and the facilities include back to base monitoring.

The site has also in operation surveillance cameras around the processing plant, picking huts, weighbridge, car parks and site stockpiling areas.

4.1.9 Refuelling

Refuelling of machinery and vehicles used on site is carried out as per the OEMP.

Absorbent materials are available to soak up minor spills. The site contains a 12,500L double skinned above ground diesel tank that is used for onsite refuelling of plant and equipment. The integrity of the 12,500L double skinned tank is inspected regularly.

During the previous reporting period, an assessment against the requirements of SEPP 33 - Hazardous and Offensive Development Application Guidelines and confirmed the volumes stored on site are below the SEPP 33 requirements. Therefore the development is not potentially hazardous and a PHA is not required.

Boral utilises the ChemAlert program and track thresholds using the program.

4.1.10 Waste Disposal and Sewage Management

Solid waste management includes non-recyclable raw materials, recyclable steel reinforcing materials, domestic garbage and spill material (if a spill was to occur). All these materials are disposed of at appropriately licensed waste facilities in accordance with the Waste Monitoring Program (EMM, May 2021). Less than 0.5% by weight of all materials received on site is disposed of at landfill.

The sewage management on site is controlled by an Econocycle unit which is inspected and maintained routinely by a qualified contractor. Treated water from the system is used as non-potable water around the site to irrigate tree and shrub plantings.



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4.2 Monitoring requirements

4.2.1 Dust Management

Gravimetric gauges have been placed in the following locations, which are illustrated in Figure 7;

- (1) At the south west corner of the site (EPL license point EPL ID1).
- (2) At the south east corner of the site, adjacent the sedimentation basins.



Figure 7 - Boral Recycling Widemere – Dust Deposition Monitoring and Meteorological Station Locations

Dust monitoring is undertaken in accordance with the requirements of Table 11 below, as per section 4.4 of the development consent.



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Pollutant/Parameter	Discharge Point	Method	Frequency
Particulate Matter (deposited matter)	g/m ² /month	AM-1, AM-19	Continuous

Table 11 - Dust Deposition Parameter Monitoring

Dust collection and testing is conducted as per the NSW EPA Approved Method 19 – AS 3580.10.1 *Methods of sampling and analysis of ambient air; Determination of particulate Deposited Matter – Gravimetric Method*.

Sample analysis was performed by Boral Materials Technical Services, which is a NATA Accredited Laboratory (No: 9968).

The 12-month rolling average for the current and past reporting periods is shown in Table 12, where a decrease in the rolling average for ash has been observed over subsequent reporting periods.



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Monitoring Points Test Method AM 19	Mar 2011 – End Feb 2012 Av (g/m2/mth): Ash	Mar 2012 – End Feb 2013 Av (g/m2/mth): Ash	Mar 2013 – End Feb 2014 Av (g/m2/mth): Ash	Mar 2014 – End Feb 2015 Av (g/m2/mth): Ash	Mar 2015 – End Feb 2016 Av (g/m2/mth): Ash	Mar 2016 – End Feb 2017 Av (g/m2/mth): Ash	Dec 2016 – Nov 2017 (g/m2/mth): Ash	Dec 2017 – Nov 2018 (g/m2/mth): Ash	Dec 2018 – Nov 2019 Av (g/m2/mth): Ash	Dec 2019 – Nov 2020 Av (g/m2/mth): Ash	Dec 2020 – Nov 2021 Av (g/m2/mth): Ash	Dec 2021 – Nov 2022 Av (g/m2/mth): Ash
1 SW Corner**	3.64	2.70	4.03	4.79	3.90	5.25	6.4	4.45	4.15	3.19	3.30	1.62
2. SE Corner near Sediment Basins	4.27	3.38	4.76	4.09	5.41	5.23	5.3	4.96	4.27	3.50	3.28	3.12

** EPL 11815 Licensed monitoring point
Table 12 - Boral Recycling Dust Deposition Results (ash content)



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In interpreting the results presented in Table 12, it is necessary to refer to the *NSW EPA Approved Methods and Guidance – For the Modelling and Assessment of Air Pollutants in NSW*. The impact assessment for dust is listed as the maximum annual average of deposited dust being 4g/m²/mth for insoluble solids. Section 10 of the Gravimetric Method standard indicates that the accuracy of the method is +/-20% on monthly average for insoluble solids.

Throughout the reporting period, the gauges have recorded insoluble solids above the limit of 4g/m²/month on 2 occasions. These gauges are located on the operating site and are on occasions influenced by localised dust generating activities. To that extent, the recorded fallout rates are not necessarily representative of off-site dust levels or even widespread dust levels on the site.

Due to the physical nature of construction and demolition materials, it is generally accepted that the ash level (sample heated to 850 degrees Celsius for 30 minutes, as per the standard), may be used as a measure to reduce the impact arising from detecting other sources of organic deposited matter. These organic sources usually include insects, bird droppings, pollen, grass seed etc. Ash in the standard is defined as 'the mass of that portion of the insoluble matter remaining after combustion.

When reviewing dust data obtained for the previous reporting periods and presented in Table 12, a decrease, or stabilisation of the ash level at dust gauge #1 (EPL location) and site #2 has been observed. This indicates that the dust generation minimisations activities at the site have been effective in reducing or maintaining the annual dust levels. Dust monitoring locations are located in highly active operational areas on site, within the surrounding tree screen, and are not necessarily considered indicative of offsite dust concentrations.

A summary of the monthly sampling results obtained from the dust deposition gauges for the current reporting period for Site 1 and Site 2 are presented in Figure 8 and Figure 9, respectively, below.

The site is surrounded to the west by the Prospect reservoir, to the south and north by commercial / industrial developments and to the east by open space and recreational land use. There are no sensitive or residential receptors in close proximity to the site and therefore, the risk of dust generating activities impacting human or ecological receptors is considered low. An illustration of the location of dust deposition gauges in reference to nearest residential receptors is provided in Figure 10 below.



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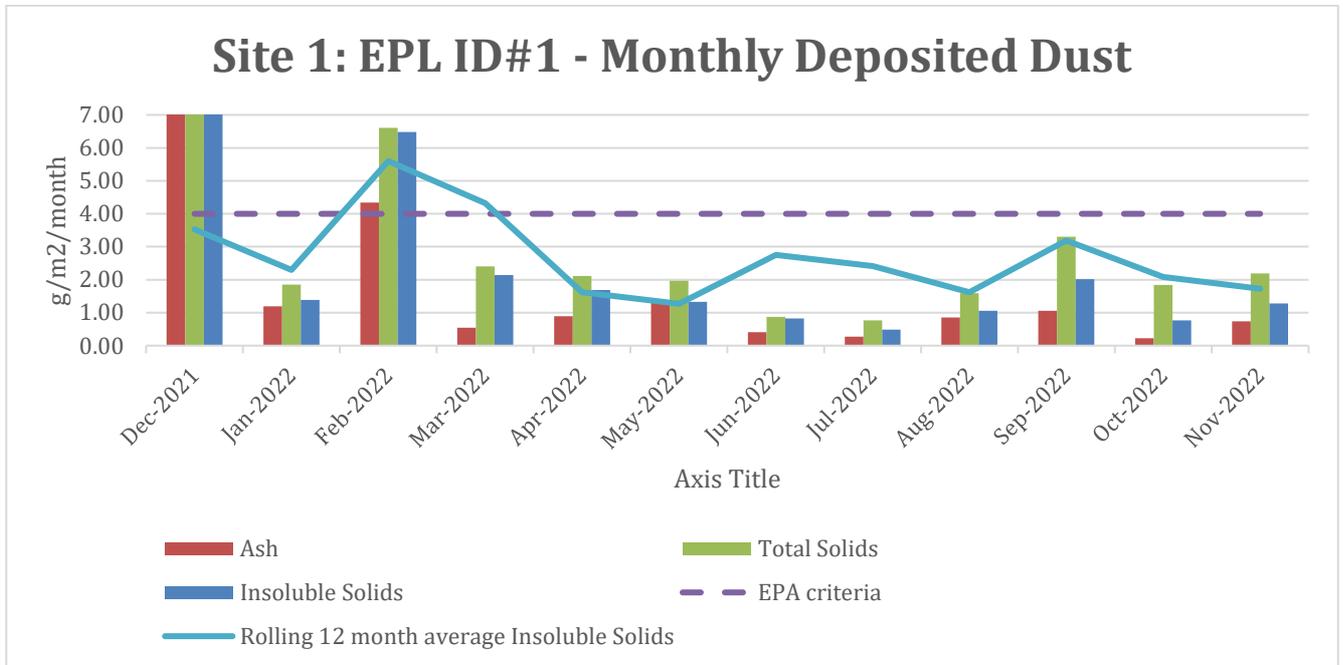


Figure 8 - Widemere Recycling monthly deposited dust results for Site 1

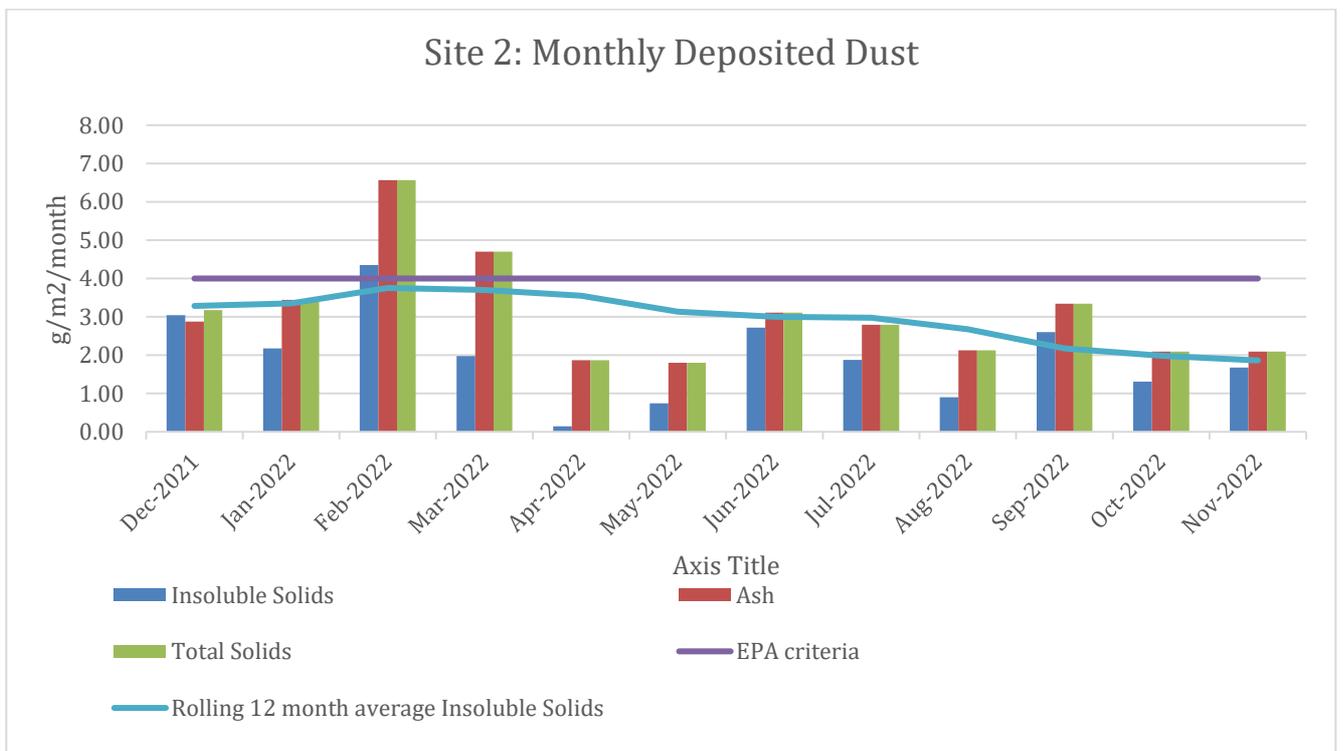


Figure 9 - Widemere Recycling monthly deposited dust results for Site 2



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Figure 10 - Location of dust gauges in relation to nearest residential receptors

4.2.2 Noise Monitoring

Noise monitoring is undertaken as required following noise related complaints or significant changes to site operations, as per the recommendations of the NMP (EMM, May 2021). This change to the NMP was based on subsequent years of compliant noise monitoring results.

Expanded operations occurred in November 2021, with background noise monitoring being conducted in November and December 2022 as part of the application for Modification 2. Monitoring will occur in 2023 to assess the potential for any impact from the expanded operations.



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4.2.3 Surface Water Quality

During the reporting period there were no controlled discharges of water off site. Storm water collected during rain events in the two basins and 13 x 30KL water tanks is harvested and re-used for dust suppression and/or used in the blending plant.

At present and during the reporting period, approval to undertake controlled discharges under EPL 11815 has been temporarily removed by the EPA in order to undertake further investigations into the sites detention water quality as per the Pollution Reduction Program (PRP) contained in Section U of EPL 11815. This was also the case for the previous reporting period; hence no water quality monitoring data is available to be presented in these reports.

Boral agreed to the inclusion of the following PRPs on their EPL as part of the licence variation issued 11 November 2016, which were subsequently submitted to the Department of Planning and Environment (DPE) and the NSW EPA on the 1st May 2017;

- Surface Water Characterisation Assessment (as per EPL 11815 PRP U1.2-U1.4).
- Surface Water Monitoring and Mitigation Plan (as per EPL 11815 PRP U1.5 – U1.9).

The Surface Water Characterisation Assessment was submitted to the EPA on 4 April 2017, with the Surface Water Monitoring and Mitigation Plan submitted to the EPA on 28 April 2017. Following the submission of the reports above it has been agreed with the EPA to undertake further investigations into measures to reasonably reduce potential contaminants of concerns from the potential point sources identified. Boral is currently working with the EPA to revise the documents, as required, in order to address some outstanding comments from the EPA on the original plans. Boral submitted an updated version of the Surface Water Monitoring and Mitigation Plan to the EPA on 11 August 2021, addressing the EPA's previous comments on the plan.

The EPA advised on the 20 September 2022, that the requirements of the 3 PRPS had been satisfied, including the SWMMP.

An additional PRP associated with a licence variation is being discussed for the “validation of Implemented mitigation measures”, with a report due by the 29th February 2024.

There were no controlled discharges of waters that occurred during the current reporting period. A number of overflow events occurred during the reporting period, due to extreme rainfall events across the wider catchment area. These were, reported to the EPA.



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4.2.4 Ground Water Quality

The monitoring network consists of four monitoring bores, two deep monitoring bores targeting the uppermost water bearing zones within the Bringelly Shale and two shallow monitoring bores to assess potential seepage from the basins. Details of the monitoring bores are provided in Table 13 and bore locations are shown in Figure 11.

Monitoring bore	Total depth (m bgl)	Total depth (m AHD)	Screened interval (m bgl)	Screened interval (m AHD)	Screened lithology	Purpose
MW01	25.5	14.95	17.5 – 23.5	23.0 – 17.0	Bringelly Shale	Regional groundwater level monitoring - downgradient
MW02	11.0	28.16	3.0 – 9.0	36.2 – 30.2	Alluvial clay	Basin 2 seepage monitoring
MW03	11.0	28.54	3.0 – 9.0	36.5 – 30.5	Alluvial clay	Basin 1 seepage monitoring
MW04	29.0	18.33	20.0 – 26.0	27.3 – 21.3	Bringelly Shale	Regional groundwater level monitoring - upgradient

Notes: m bgl = meters below ground level, m AHD = meters Australian Height Datum.

Table 13 Ground water bore details



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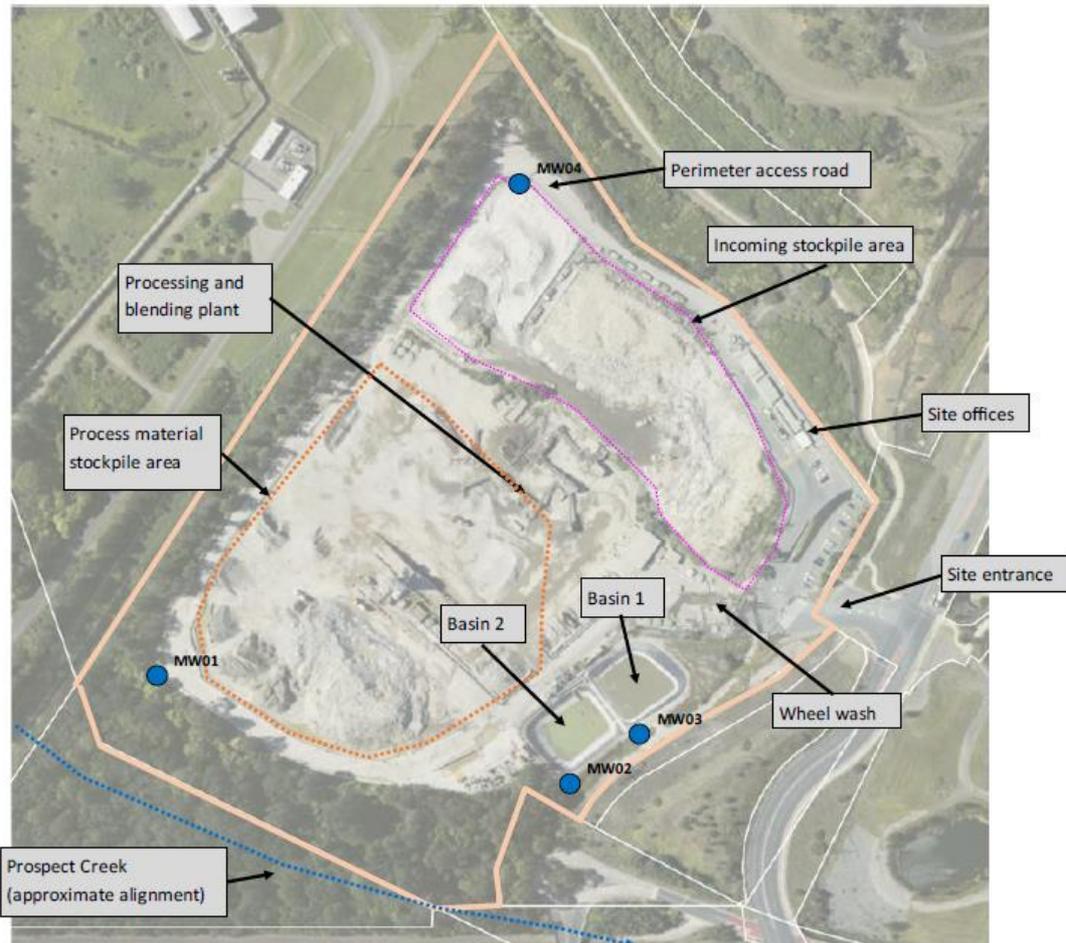


Figure 11 Groundwater Bore locations

Groundwater monitoring was undertaken over a period October 2021 to January 2022 in response to the commencement of expanded operations.

A number of parameters were measured as outlined in the Groundwater Monitoring plan and shown in Table 14 with the results being compared to DGVs for slightly-to-moderately disturbed freshwater ecosystem (ANZG 2018).



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Grouping	Parameters	
Physicochemical parameters (field / lab)	Electrical conductivity	Temperature
	pH	Total dissolved solids
	Total suspended solids	
Major ions	Calcium	Chloride
	Magnesium	Total alkalinity
	Sodium	Sulphate
	Potassium	Fluoride
Dissolved metals	Aluminium	Gallium
	Arsenic	Iron
	Beryllium	Lead
	Barium	Manganese
	Cadmium	Molybdenum
	Chromium (III + VI)	Nickel
	Cobalt	Vanadium
	Copper	Zinc
		Mercury
Nutrients	Ammonia	Total Kjeldahl nitrogen
	Nitrate	Total nitrogen
	Nitrite	Total phosphorus
	Nitrite + Nitrate	Reactive phosphorus
Hydrocarbons	Total Petroleum Hydrocarbons (TPH)	Benzene, toluene, Ethylbenzene, xylenes, naphthalene (BTEXN)
	Total Recoverable Hydrocarbons (TRH)	
		Polynuclear Aromatic Hydrocarbons (PAH)

Table 14 groundwater monitoring parameters

The results from the monitoring identified that groundwater quality was different at each of the monitoring bores and that concentrations of several metals exceed the DGVs on either a frequent or occasional basis.

Surface water at the facility is known to have concentrations of aluminium, copper, chromium and vanadium that are consistently above the DGV values.

Two of these metals, chromium and vanadium, were consistently below detection levels in all groundwater water samples collected, indicating that surface water from the facility is not impacting groundwater quality.

Hydrocarbon related chemicals were also consistently below detection levels at all monitoring locations.

The key conclusion from the results analysis is that there is no evidence of groundwater impacts due to the operation of the facility (both prior to an after Expanded Operations).



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In accordance with the Groundwater Monitoring Plan, groundwater quality monitoring will be undertaken on an annual basis from the four groundwater monitoring bores.

The annual monitoring is to be undertaken:

- at least three-months before the end of the Annual Environmental Management Report (AEMR) period to enable time for additional investigations (see Section 7.3) to be undertaken and incorporated into the AEMR, should they be required; and
- at least nine-months after the previous annual monitoring event.

4.2.5 Waste Monitoring

Waste monitoring is undertaken in accordance with the waste monitoring program for the Widemere site (EMM, May 2021). The program is described in Section 4.1.1.

A summary of the volumes of waste accepted at site for previous reporting periods is summarised in Table 15. The table references the waste limits described in Condition L4 of EPL 11815.

Relevant condition	Waste Type	Limit	2022 data	2021 data	2020 data	2019 data	2018 data
L4.1	Garden waste	1,000 tonnes stockpiled on site at any one time.	No garden waste is accepted on site. Any garden waste received is rejected and detailed in the rejected loads register	No garden waste is accepted on site. Any garden waste received is rejected and detailed in the rejected loads register	No garden waste is accepted on site. Any garden waste received is rejected and detailed in the rejected loads register	No garden waste is accepted on site. Any garden waste received is rejected and detailed in the rejected loads register	No garden waste is accepted on site. Any garden waste received is rejected and detailed in the rejected loads register
L4.1	Soils	Arsenic 40mg/kg; Cadmium 2mg/kg; Copper 200mg/kg; Mercury 1.5mg/kg; Zinc 600mg/kg; Petroleum Hydrocarbons C6-C9 150mg/kg; Petroleum Hydrocarbons C10-C36 1600mg/kg; Polycyclic aromatic hydrocarbons 80mg/kg; Polychlorinated biphenyls (individual) 1mg/kg. No Acid Sulfate Soil or Potential Acid Sulfate Soil is to be received at the Premises.	Yes 149621 received CT1 soil is pre-classified by an Independent geotechnical contractor prior to acceptance and copies of classification maintained and stored. No CT1 soils are accepted on site if they are not found to be compliant with limits described.	CT1 soil is pre-classified by an Independent geotechnical contractor to confirm compliance with the limits prior to acceptance on-site and copies of classification maintained and stored. CT1 soils are not accepted on site if they are not compliant with limits described.	CT1 soil is pre-classified by an Independent geotechnical contractor to confirm compliance with the limits prior to acceptance on-site and copies of classification maintained and stored. CT1 soils are not accepted on site if they are not compliant with limits described.	No soils accepted during this period	No soils accepted during this period
L4.2	The authorised amount of waste permitted on the premises cannot exceed 750,000 tonnes at any one time	750,000 tonnes of waste at any one time	Maximum amount stored onsite 262,805 tonnes (April 2022)	Maximum amount stored onsite 221,030 tonnes (August 2021)	Maximum amount stored onsite 143,614 tonnes (April 2020)	Maximum amount stored onsite 65,313 tonnes (April 2019)	Maximum amount stored onsite 107,110 tonnes (December 2017)
L4.3	The Licensee must not receive on the Premises, more than 1,000,000 tonnes of waste per year.	1,000,000 tonnes of waste per year.	778653 tonnes of material was received during the 2022 reporting period.	818,062 tonnes of material were received during the 2021 reporting period.	597,697 tonnes of material were received during the 2020 reporting period.	641,617 tonnes of material were received during the 2019 reporting period.	674,470 tonnes of material were received during the 2018 reporting period.
L4.4	The height of any stockpile of any material on the Premises, must	>20m AGL	Heights of stockpiles remain 20m below ground level, monitored	Heights of stockpiles remain 20m below ground level, monitored using height marker on	Heights of stockpiles remain 20m below ground level, monitored using height marker on	Heights of stockpiles remain 20m below ground level, monitored using height	Heights of stockpiles remain 20m below ground level, monitored using height marker on stabilisation plant, 6 monthly flyovers.

	not exceed twenty (20) metres above ground level.		using height marker on stabilisation plant, 6 monthly flyovers. Regular review identified in the EPP	stabilisation plant, 6 monthly flyovers.	stabilisation plant, 6 monthly flyovers.	marker on stabilisation plant, 6 monthly flyovers.	
L4.5	No asbestos waste is to be accepted or stored at the premises.	0	Any fibrous material detected during three point inspection protocol is rejected and details entered in the rejected load register stored on site.	Any fibrous material detected during three-point inspection protocol is rejected and details entered in the rejected load register stored on site.	Any fibrous material detected during three-point inspection protocol is rejected and details entered in the rejected load register stored on site.	Any fibrous material detected during three-point inspection protocol is rejected and details entered in the rejected load register stored on site.	Any fibrous material detected during three-point inspection protocol is rejected and details entered in the rejected load register stored on site.

Table 15—Historical compliance with EPL waste limits for material accepted and stored on site.



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4.2.6 Complaints Register

An environmental complaints register is available on site and online, however all hazards or incidents are recorded into Boral's HSEQ Incident Management System reporting system called SEquence. Once entered, actions can be allocated, investigation teams established, and closure of any incidents tracked to completion.

Complaints Management

The purpose of the complaints register is to:

- Ensure that complaints/concerns received regarding the facility are documented; and
- An appropriate response to complaints is initiated (this may include changing management practices/monitoring procedures or adopting new practices/monitoring procedures).

Complaints must be reported to the Production Supervisor within 24 hours of receipt. The Production Supervisor will log the complaint on the electronic complaints register (SEquence) and retain a copy on site.

The person reporting the complaint should where possible provide the Manager with the following information:

- Date of the complaint;
- Name of the person making the complaint;
- Telephone number of the person making the complaint;
- Reason for the complaint; and
- Actions taken in response to the complaint.

Upon being informed of a complaint the Manager must determine:

- Whether any further response actions are required; and
- Whether changes to site management procedures/monitoring programs are required.

Complaints Summary & Resolutions

There were no complaints received during the reporting period.



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4.2.7 Procedure for the Receival and Screening of Waste for Recycling

The Inspection and Receivals protocol is maintained by Boral and outlines in detail the steps and procedures for the receival and screening of waste for recycling. The procedure includes: Actions and Responsibilities, Screening Procedures, Procedures for handling suspected/confirmed asbestos products, Training, and Document review. This document is reviewed annually and updated as required.

State Government Legislation require recyclers of waste to test their products for a range of substances and materials. The site is complying with this requirement.

4.2.8 Landscape Management Plan

The main landscape management issues associated with the site are:

- Removal from the site of all noxious weeds as listed under the *NSW Noxious Weeds Act 1993*.
- Protection of existing vegetation at the southern end of the site.
- Timely re-establishment of landscaping as areas is completed.
- Ongoing maintenance of landscaped areas.
- Protection of the Swamp Oak Endangered Ecological Community listed under the TSC Act.

Contractors conduct ongoing chemical, mechanical and (where appropriate) biological weed removal controls and bush regeneration on site. Periodic inspections (monthly) are conducted to identify the early stages of weed infestation.

5. Compliance with conditions of consent

Table 16 below summarises all the conditions of consent, indicates compliance (if relevant) and provides comments if required. Where applicable, the conditions were considered for the reporting period of this Annual Review.

Table 16- Compliance with Conditions of Consent. Boral Recycling Pty Ltd – Construction and Demolition Materials Recycling Facility, Widemere Road, Wetherill Park. DA -SSD 6525

Condition No.	Condition Summary	Complied with Y/N	Comments
1. General			
A.1	Increase in processing capacity of an existing resource recovery facility to 1,000,000 tonnes per annum of non-putrescible construction and demolition waste.	Y	The site has processed 817 631tonnes within the current reporting period.
Obligation to Minimise Harm to the Environment.			
B.1	Implement all reasonable and feasible measures to minimise harm to the environment that may result from the development.	Y	On-going implementation of water management, dust management, noise management, hydrocarbon management practices.
Terms of Consent			
B.2	Carry out development in accordance with the: (a) EIS; (b) RTS; (c) Development layout plans and drawings in the EIS; and (d) The management and mitigation measures.	Y	Operations are carried out generally in accordance with the documents listed.
B.3	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.	N/A	No inconsistencies between the documents have been identified to date. The most recent document (SSD 6525) takes precedence in the event of any inconsistency.
B.4	The applicant shall comply with any reasonable requirement(s) of the secretary from the Department's assessment of: (a) Any reports, plans or correspondence that are submitted in accordance with this consent and;	Y	



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Condition No.	Condition Summary	Complied with Y/N	Comments
	(b) The implementation of any actions or measures contained within these reports, plans or correspondence.		
Limits of Consent			
B.5	This consent lapses every five years after the date from which it operates unless the Development has physically commenced on the land to which the consent applies.	N/A	Noted.
B.6	The applicant shall not receive or process on the site, more than 1,000,000 tonnes of waste (as expressly permitted by an EPL) per year.	Y	The throughput on site is managed by an online database system called QRS to track volumes of materials entering, leaving and being processed on site.
B.7	The Applicant shall not cause, permit or allow any materials or waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing or disposal on the site, except as expressly permitted by an EPL.	Y	The site undertakes inspections of incoming materials at the site weighbridge entrance, at the tipping point, during processing and is also monitored through CCTV footage to ensure the material is acceptable for receipt.
B.8	Virgin Excavated Natural Material (VENM), timber, metal, plastic, glass, paper, cardboard, tree cuttings and tree trunks when mixed with inert waste may only comprise up to 20% by mass of all the stockpiles on site at any one time.	Y	The volumes of each stockpile are continuously monitored by QRS.
B.9	Stockpiles of permitted waste and recycled products shall not be more than 20 meters above ground level.	Y	Utilising stab plant 18.5m as height indicator for lower stockpile & 16m pole at NE corner of site for top stockpiles.
Staged Submission of Plans or Programs			
B.10	With the approval of the Secretary, the Applicant may: (a) submit any strategy, plan or program required by this consent on a progressive basis; and / or (b) Combine any strategy, plan or program required by this consent.	N/A	Noted.
B.11	If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program shall	N/A	Noted.



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Condition No.	Condition Summary	Complied with Y/N	Comments
	clearly describe the specific stage to which the strategy, plan or program applies the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program.		
Evidence of Consultation			
B.12	Where consultation with any public authority is required by the conditions of this consent, the Applicant shall: <i>...comply with conditions (a) to (c)</i>	N/A	Noted.
Dispute Resolution			
B.13	In event of a dispute between applicant and Council or a public utility in relation to requirements under this consent, either party may refer the matter to the Secretary for resolution.	N/A	Noted. None to Date
Statutory Requirements			
B.14	The Applicant shall ensure that all licences, permits and approvals/consents are obtained as required by law and maintained as required throughout the life of the Development.	Y	Copies of the sites EPL, DA and other operating permits are maintained in both hard and digital copies in the site office and on internal Boral databases.
Meteorological Monitoring			
B.15	Within 3 months of the date of this consent, the Applicant shall ensure that there is a suitable meteorological station on the site that complies with the requirements in the latest version of the Approved Methods for Sampling of Air Pollutants in New South Wales. The meteorological station must be operated and maintained for the life of the Development.	Y	Site has an operational weather station installed on site. Results are downloaded monthly.



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Condition No.	Condition Summary	Complied with Y/N	Comments
Utilities and Services			
B.16	Prior to the construction of any utility works associated with the Development, the Applicant shall obtain relevant approvals from service providers.	N/A	No utility works have been conducted on site in the current reporting period.
Compliance			
B.17	The Applicant shall ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this consent relevant to their respective activities.	Y	The site conducts inductions, training, and toolbox talks and provides operational management plans for staff and contractors to comply with the conditions of this consent.
B.18	The Applicant shall be responsible for environmental impacts resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors and visitors.	Y	The site conducts site inductions for every person (employee, visitor or contractor) prior to entering site.
B.19	The Secretary at any time may require an update on compliance with all, or any part, of the conditions of this consent. Any such update shall meet the requirements of the Secretary and be submitted within such period as the Secretary may agree.	N/A	Noted.
B.20	The Applicant shall meet the requirements of the Secretary in respect of the implementation of any measure necessary to ensure compliance with the conditions of this consent, and general consistency with the EIS and those documents listed under Condition 82. The Secretary may direct that such a measure be implemented in response to the information contained within any report, plan, correspondence or other document submitted in accordance with the conditions of this consent, within such time as the Secretary may agree.	N/A	Noted.
Operation of Plant and Equipment			



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Condition No.	Condition Summary	Complied with Y/N	Comments
B.21	The Applicant shall ensure that all plant and equipment used for the Development is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Y	Regular maintenance of all fixed and mobile plant is organised through an automated management system (Maximo) and driver / operator qualifications and verification of competencies are maintained current on the site.
Development Contributions			
B.22	The Applicant must pay a levy of the percentage authorised by Fairfield City Council Indirect (Section 94A) Development Contributions Plan 2011, of the proposed cost of carrying out the development. The levy must be paid prior to the commencement of the expanded operations. A copy of the receipt for the payment must be submitted to the Department within two months of payment. The amount of the levy that is payable to Council, calculated as at the date of the grant of this development consent is \$1,641.12.	Y	Paid on the 18 January 2017.
Notification and Surrender of Consent			
B.23	Prior to the commencement of the expanded operations, the Applicant shall provide written notification in the manner prescribed by Clause 97 of the Environmental Planning and Assessment Regulations 2000, and surrender the following consent: (a) DA No. 21-1-2002-1 granted by the Minister for Planning on 25 November 2002 for the construction and operation of a construction materials recycling facility.	N/A	Consent has been surrendered.
Waste Management / Waste Monitoring Program:			
C.1	The Applicant shall prepare a Waste Monitoring Program for the Development. This program must:	Y	A waste monitoring program has been devised by external consultants (EMM) and is included in Appendix A of the site's OEMP. The plan fulfils the requirements of the conditions.



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Condition No.	Condition Summary	Complied with Y/N	Comments
	(a) be prepared in consultation with the EPA by a suitably qualified and experienced expert within 3 months of the date of this consent; (b) include suitable provision to monitor the: (i) quantity, type and source of waste received on site; and (ii) quantity, type and quality of the outputs produced on site. (c) ensure that: (i) all waste that are controlled under a tracking system have the appropriate documentation prior to acceptance at the site; and (ii) staff receive adequate training in order to be able to recognise and handle any hazardous or other prohibited waste including asbestos.		
C.2	The Applicant shall carry out the Development in accordance with the Waste Monitoring Program approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.	Y	The site carries out all operations in accordance with the waste management plan referred to in item C.1.
Construction And Operation Hours			
C.3	The Applicant shall comply with the construction and operation hours in Table 1 unless otherwise agreed to in writing by the Secretary. CONSTRUCTION: Monday to Friday; 7 am to 6 pm, Saturday 8 am to 1 pm, Sunday & Public Holidays; Nil. OPERATION: Processing, Reveal and Dispatch Activities; Monday to Saturday - 6 am to midnight, Sunday 6 am to 6 pm (one Sunday per calendar month), Public Holidays - Nil. Ancillary Operations; Monday to Saturday - 6 am to midnight, Sunday - 6 am to 6 pm, Public Holidays - Nil.	Y	The site carries out all operations within the consented hours discussed in the consent condition.



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Condition No.	Condition Summary	Complied with Y/N	Comments
C.4	The Applicant must keep a record of Sunday works as identified in Table 1.	Y	The site maintains records on site of any works conducted on Sundays in hard copy on site.
C.5	Condition C.3 does not apply to any activity that is required to be performed by police or other authorities for safety reasons; and/or if there is an on-site emergency that poses an immediate danger to personnel or equipment; and/or the operation or personnel or equipment is endangered. In such circumstances, prior notification shall be provided to the EPA and any affected residents as soon as possible, or within a reasonable period in the case of emergency.	Y	Noted.
Operational Noise Limits			
C.6	The Applicant shall ensure noise from the operation does not exceed the limits in Table 2 below. (Refer to 'Development Consent')	Y	No operational noise has exceeded the acceptable site criteria and no complaints pertaining to noise issues have been recorded during the reporting period. Implementation of noise mitigation strategies outlined in the site's NMP will help to maintain compliance of the operation.
Noise and Vibration Monitoring			
C.7	The Applicant shall carry out noise and /or vibration monitoring in accordance with any requirements in the EPL. This shall include verification that the facility is operating in accordance with the criteria outlined in Condition C6.	Y	Noise and vibration monitoring is carried out as per the EPL and a noise management plan (NMP) is included in Appendix B of the site's OEMP.
Vibration Criteria			
C.8	The Applicant shall ensure that vibration resulting from the development does not exceed the continuous or impulsive vibration criteria in the EPA's Assessing Vibration: A Technical Guideline (February 2006) at residential receivers.	Y	Noted. No excessive vibration has been detected due to site operations to date.
Noise Mitigation			



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Condition No.	Condition Summary	Complied with Y/N	Comments
C.9	The Applicant shall: (a) implement best management practice, including all reasonable and feasible noise management and mitigation measures to prevent and minimise operational, low frequency and traffic noise generated by the development; (b) minimise the noise impacts of the development during adverse meteorological conditions; (c) maintain the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired; and (d) regularly assess any noise monitoring data and relocate, modify and/or stop operations to ensure compliance with the relevant conditions of this consent.	Y	(a) Noise mitigation measures are implemented as per the NMP.. (b) Meteorological conditions are monitored using the onsite weather station. (c) Maintenance to plant and machinery is arranged through the automated Maximo system to prevent excessive operational noise emissions. (d) Noise monitoring will be conducted as required as per the NMP.
Noise Management			
C.10	As part of the OEMP for the Development, required under Condition D2 of this consent, the Applicant shall prepare a Noise Management Plan. The Plan must: <i>...comply with sections (a) to (i) of the condition.</i>	Y	A NMP was prepared and included in the site OEMP, containing the relevant information.
C.11	The Applicant shall carry out the Development in accordance with the Noise Management Plan approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.	Y	The site carries out operations as per the conditions of the NMP.
Odour			
C.12	The Applicant shall ensure the Development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).	Y	The site operations or materials stored and processed on site do not emit offensive odour.
Air Quality			



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Condition No.	Condition Summary	Complied with Y/N	Comments
C.13	The Applicant shall carry out all reasonable and feasible measures to minimise dust generated by the Development.	Y	The site operates a street sweeper to maintain internal roads and a water cart wet suppresses unsealed areas; sprinklers have been set up along all stockpile / operational areas and throughout the processing plant area; vehicle speeds on site are reduced to prevent the suspension of particulates; dust monitoring is conducted on a monthly basis at Point 1 to AM-19 (sampling method) as per EPL M2.2 Point # 1; and unsealed internal roads and operational areas are systematically covered with asphalt or hardstand to reduce the exposed surface area of the site. Back haul road has been concreted to minimise dust generation.
C.14	The Applicant shall carry out air quality monitoring in accordance with any requirements in the EPL.	Y	Dust monitoring is conducted at Point 1 to AM-19 (sampling method) as per EPL M2.2 Point # 1. Dust bottles are collected monthly and sent to BTMS for testing & analysis. Method of sampling is to AS 3580.10.1-2003- Methods for sampling and analysis of ambient air method 10.1- Determination of particulate matter, Deposited matter- Gravimetric method.
C.15	The Applicant shall ensure the development complies with any air quality limits in the EPL.	N/A	No air quality limits were established in the EPL.
Air Quality Mitigation			
C.16	The Applicant shall: (a) operate the Development so that air emissions are minimised during all meteorological conditions; (b) implement best management practice, including all reasonable and feasible air emissions mitigation measures to minimise emissions from the Development, including but not limited to: (i) limiting vehicle speed on-site to 30 kilometres per hour;	Y	All of the mentioned dust mitigation measures in condition C.16 are employed on site at all times.



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Condition No.	Condition Summary	Complied with Y/N	Comments
	(ii) ensuring all loaded vehicles entering or leaving the site have their loads covered; (iii) ensuring all loaded vehicles leaving the site are cleaned of dirt, sand and other materials before they leave the site, to avoid tracking these materials on public roads; and (iv) dust sprays through chemical suppressants, water sprays/misters.		
Dust Management			
C.17	As part of the OEMP for the Development, required under Condition D2 of this consent, the Applicant shall prepare a Dust Management Plan. The Plan must: <i>...comply with conditions (a) to (i).</i>	Y	A dust management plan (DMP) has been devised by EMM and is included in Appendix C of the OEMP and fulfils the requirements outlined in condition C.17.
C.18	The Applicant shall carry out the Development in accordance with the Dust Management Plan approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.	Y	The development is carried out in accordance with the DMP.
Air Quality Audit			
C.19	The Applicant shall carry out an Air Quality Audit of the Development no later than six months after the commencement of the expanded operations.	Y	A "Best Practice Dust Management Benchmarking Study" was conducted by external contractor (Ramboll) and supplied to the DPE on 30 th June 2017. An Air Quality audit was conducted in 2022 following the commencement of expanded operations.
C.20	Within three months of commissioning this audit, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Y	The Air quality audit was submitted to the DPE in August 2022. DPE acknowledged receipt of the report and implementation of the recommendations in November 2022



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Condition No.	Condition Summary	Complied with Y/N	Comments
C.21	The Applicant shall comply with any reasonable requirement(s) of the Secretary arising from the Air Quality Audit.	N/A	Noted.
Pollution of Waters			
C.22	The Development shall comply with Section 120 of the POEO Act, which prohibits the pollution of waters, except as expressly provided in an EPL.	Y	Site operations are conducted in accordance with the Surface Water Mitigation and Monitoring Plan (SWMMP), currently under review by NSW EPA, and the site's EPL requirements to prevent the pollution of waters.
C.23	Any discharge or water quality criteria specified under the EPL must be complied with.	Y	The site has not undertaken any controlled discharge events during the current reporting period.
C.24	Surface water must only be discharged from the location specified in the EPL.	Y	There have been no controlled discharges during the current reporting period due to EPL 11815 licence condition U1
C.25	Discharges of turbidity and/or suspended solids to waters from discharge point identified in condition EPL is only permitted when the discharge occurs solely as a result of rainfall exceeding a total of 45 mm over any consecutive 5-day period	Y	The only discharges from the site have been the result of rainfall exceeding 45 mm over a 5 consecutive day period.
C.26	The Applicant shall undertake water quality monitoring at the discharge point and in accordance with the monitoring requirements described under this consent and the EPL.	Y	The only discharges from the site have been the result of rainfall exceeding 45 mm over a 5 consecutive day period. During these periods of unmanaged overflow, water quality results have not been obtained due to safety concerns.
C.27	All soil and / or vegetation disturbed or removed from the site shall be disposed of to, or stored at, an appropriate location where it cannot be washed off the site.	Y	All sediment / vegetation is stored in a location where it will not run off site
Erosion and Sediment Control			
C.28	All construction vehicles exiting the site, having had access to unpaved areas, shall depart via a wheel-wash facility.	Y	An operating wheel wash is provided for all vehicles exiting the site from operational areas. Wheel wash facilities have been introduced



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Condition No.	Condition Summary	Complied with Y/N	Comments
			on the back road leading to the weighbridge to provide extra wash facilities throughout the site.
C.29	The Applicant shall implement erosion and sediment control measures during construction in accordance with Landcom's Managing Urban Stormwater: Soils and Construction guideline.	Y	Erosion and sediment control measures have been implemented on site including vegetation of the site boundaries and adequate surface runoff retention capacities on site. Outlined in the OEMP.
Bunding			
C.30	The Applicant shall store all chemicals, fuels and oils used on-site in appropriately banded storage areas in accordance with the requirements of all relevant Australian Standards and the EPA's Storing and Handling Liquids: Environmental Protection - Participants Manual 2007.	Y	Chemicals are stored in hardstand areas, on bunds with adequate storage capacity to contain leaks. The workshop is enclosed and banded. All machinery servicing is completed in the workshop. A rollover bund has also been installed at the self banded diesel tank.
Site Drainage and Surface Water Management			
C.31	Within six months of the expanded operations, the Applicant shall provide certification from a suitably qualified engineer that the internal surfaces of the surface water detention basins have been maintained to the equivalent to, or better than, a clay liner with a permeability of 1×10^{-9} ms ⁻¹ or less and a thickness of no less than 900 mm and whether any repairs are necessary. The documentation of the certification shall be provided to the EPA and Secretary.	N/A	Clay liner has been removed and replaced with HDPE liner. Boral has confirmed the geomembrane meets or exceeds the EPA Victoria's Best Practice Environmental Management Publication Siting, design, operation and rehabilitation of landfills (Landfill BPEM), which requires the hydraulic conductivity of the liner to be less than 1×10^{-9} m/s.
C.32	Should the certification as per Condition C31 identify that repairs are required; these repairs shall be carried out within two months of the certification.	Y	Clay liner has been removed and replaced with HDPE liner. Boral has confirmed the geomembrane meets or exceeds the EPA Victoria's Best Practice Environmental Management Publication Siting, design, operation and rehabilitation of landfills (Landfill BPEM), which requires the hydraulic conductivity of the liner to be less than 1×10^{-9} m/s.



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Condition No.	Condition Summary	Complied with Y/N	Comments
C.33	The Applicant shall maintain all surface water infrastructure to direct all surface water runoff to the site's surface water detention basins.	Y	Site drainage lines are cleaned regularly and kept free of blockages or obstructions.
C.34	Only water contained in the site's secondary surface water detention basin (sediment basin 2- as identified in Appendix 1) is permitted to be applied to land and stockpiles within the site. Spray from the application of this water must not drift beyond the boundary of the area to which it is applied.	Y	The spray from sediment basin 2 does not extend beyond the site boundary.
C.35	The Applicant shall maintain the surface water detention basins on site with a minimum capacity to contain 45 millilitres of rainfall over any consecutive 5-day period. The capacity requirements of the sediment basins may be modified by the EPL.	Y	The site undertakes daily visual monitoring and recording of the water levels in the detention basins to ensure adequate storage capacity is maintained. The dams have a collective volume of 5.1ML and possesses a HDPE liner.
C.36	The Applicant shall ensure that a visible marker is installed in each sediment retention basin in a position that shows the freeboard in the basin that equates to the volume required to contain all rainfall and runoff in the catchment from a 45 mm rainfall event over any consecutive 5 day period or as modified by the EPL.	Y	Red and yellow lines painted on HDPE liner to indicate water level in the new water collection/sediment dams.
C.37	The sediment basin liner shall be monitored every 3 years to ensure a clay liner of permeability of 1×10^{-9} ms ⁻¹ or less and a thickness of no less than 900 mm is maintained.	Y	The liner has now been changed from clay to HDPE (impermeable plastic). The new impermeable plastic liner is easier to manage and inspect than the clay liner and therefore is deemed an upgrade.
Groundwater			
C.38	Within six months of the commencement of the expanded operations. The Applicant shall conduct a Groundwater Monitoring Program.	Y	A groundwater monitoring program (Appendix D, OEMP) has been developed and is being implemented. The program was reviewed with the commencement of the expanded operations



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Condition No.	Condition Summary	Complied with Y/N	Comments
C.39	Within three months of the completion of the Groundwater Monitoring Program, the Applicant shall submit a copy of the Groundwater Monitoring Program as identified in Condition C38 to the Secretary and the EPA.	N/A	The groundwater monitoring program was submitted to the DPE on April 2022.
C.40	The Applicant shall comply with any reasonable requirement(s) of the Secretary arising from the Groundwater Monitoring Program.	N/A	Noted.
Surface Water Mitigation and Monitoring Plan			
C.41	Prior to any controlled discharges permitted under the EPL the Applicant must provide a Surface Water Monitoring and Mitigation Plan.	Y	Submitted and the EPA advised on the 20 September 2022, that the requirements of the 3 PRPS had been satisfied.
C.42	The Applicant shall carry out the Development in accordance with the Surface Water Mitigation and Monitoring Plan (including the implementation of mitigation measures) approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.	N/A	Noted
Water Quality Validation			
C.43	Within three months of implementing the Surface Water Mitigation and Monitoring Plan, the Applicant shall provide a Surface Water Validation Report.	N/A	Submitted and the EPA advised on the 20 September 2022, that the requirements of the 3 PRPS had been satisfied.
C.44	Any alterations to the surface water management system identified in the Surface Water Validation Report must be implemented prior to any further controlled discharges to the satisfaction of the Secretary.	N/A	Noted.



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Condition No.	Condition Summary	Complied with Y/N	Comments
C.45	The Applicant must comply with any amended water quality criteria and discharge limits identified in the EPL.	N/A	There have been no controlled discharges during the current reporting period.
Surface Water Audit			
C.46	The Applicant shall carry out an independent Surface Water Audit of the Development, in consultation with the EPA, following completion of the Surface Water Validation Report or as directed by the Secretary.	N/A	Noted. Not yet triggered.
C.47	Within three months of commissioning this audit, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	N/A	Noted. Not yet triggered. Due May to June 2024
C.48	The Applicant shall comply with any reasonable requirement(s) of the Secretary arising from the Surface Water Audit.	N/A	Noted. Not yet triggered.
Contamination			
C.49	Prior to the commencement of construction of the realigned haul road as identified in Appendix 1, the Applicant shall prepare an unexpected finds protocol to ensure that potentially contaminated material is appropriately managed. Any material identified as contaminated shall be disposed offsite, with the disposal location and results of testing submitted to the Secretary, prior to its removal from the site.	Y	Construction works were completed in the 2019 reporting period
C.50	The Applicant shall implement the unexpected finds protocol developed under Condition C49 for the duration of construction works.	N/A	Noted.
Parking			
C.51	The Applicant shall maintain provision for 37 car parking spaces on the site. The spaces must conform to the relevant	Y	The site provides 37 car spaces of acceptable dimensions.



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Condition No.	Condition Summary	Complied with Y/N	Comments
	specifications in the latest version of Australian Standard 2890.1.		
C.52	Accessible, visitor and service vehicle parking spaces must be clearly signposted and designated in accordance with the relevant Australian Standards.	Y	Adequate signage is displayed for visitor and service vehicle parking spaces.
Operating Conditions			
C.53	<p>The Applicant shall ensure that:</p> <p>(a) the Development does not result in any vehicles parking or queuing on the public road network;</p> <p>(b) the realigned haul road (as identified in Appendix 1) is constructed and maintained in accordance with the relevant Australian Standards;</p> <p>(c) all vehicles are wholly contained on site before being required to stop;</p> <p>(d) all loading and unloading of heavy vehicles is carried out on-site, in particular, all materials when first received at the site shall be unloaded at the receivals area in the north of the site as identified in Appendix 1;</p> <p>(e) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times;</p> <p>(f) all heavy vehicles associated with the Development have their loads covered and do not track dirt onto public roads;</p> <p>(g) all vehicles enter and leave the site in a forward direction; and</p> <p>(h) all vehicles exiting the site that have accessed unpaved areas shall depart via a wheel wash facility.</p>	Y	<p>(a) Adequate parking is provided on site, therefore no cars are parked outside;</p> <p>(b) All internal roads and haul roads are maintained to acceptable standards;</p> <p>(c) The driveway to the site has sufficient room to accommodate several vehicles to avoid stopping before being wholly within the site;</p> <p>(d) Driver inductions and signage stress the requirement for unloading to take place only in the receivals area;</p> <p>(e) A clear turning circle for vehicles in the car park is maintained at all times;</p> <p>(f) Driver inductions and toolbox talks identify the requirement to have loads covered at all times except when loading and unloading;</p> <p>(g) The site traffic management plan and site signage promote the entrance and exit to site in a forward direction only; and</p> <p>(h) An operational wheel wash is available for all vehicles exiting site from operational areas.</p>



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Condition No.	Condition Summary	Complied with Y/N	Comments
C.54	The Applicant shall implement a Driver Code of Conduct for heavy vehicle drivers associated with the Development.	Y	The site does have a Driver Code of Conduct issued to all drivers. A copy is within the OEMP. The document was reviewed in response to the expanded operations trigger with a copy being provided to the DPE in February 2022.
Heritage			
C.55	The Applicant shall cease all works on site in the event that any Aboriginal cultural object(s) or human remains are uncovered onsite. The NSW Police, the Aboriginal Community and the OEHL are to be notified. Works shall not resume in the designated area until consent in writing from the NSW Police and/or the OEHL has been obtained.	N/A	Noted. No heritage items have been identified to date.
Lighting			
C.56	All external lighting associated with the Development shall be mounted, screened, and directed in such a manner so as not to create a nuisance to the surrounding environment, properties and roadways. The lighting shall be the minimum level of illumination necessary and shall comply with Australian Standard AS4282 1997- Control of the Obtrusive Effects of Outdoor Lighting.	Y	All lighting is installed and maintained in accordance with the consent and does not generate nuisance glare.
Signage			
C.57	The Applicant shall not install any advertising signs on site without the written consent of the Secretary.	Y	No advertising signs are displayed on the site.
Flora and Fauna			
C.58	The Applicant shall: (a) avoid clearing the Swamp Oak Floodplain Forest EEC (with the exception of the 12 juvenile Swamp Oaks identified in the EIS) at the southern end of the site and ensure this	Y	(a) No mature Swamp Oaks have been removed from the site; (b) Regular weed control is conducted by an external contractor; and



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Condition No.	Condition Summary	Complied with Y/N	Comments
	stand is protected and maintained during construction and operation of the Development; (b) implement suitable measures to manage and prevent the spread of notifiable weeds on site as defined in the Noxious Weeds Act 1993; and (c) ensure landscaping along the eastern boundary of the site is maintained throughout the life of the Development.		(c) Landscaping along the site boundaries are regularly managed by external landscaping contractors.
Security			
C.59	The Applicant shall: (a) install and maintain a perimeter fence and security gates on the site; and (b) ensure that the security gates on site are locked whenever the site is unattended.	Y	The site is surrounded by a perimeter fence which is inspected on a monthly basis for signs of damage or disrepair and security gates are locked when the site is non-operational as dictated by site operating procedures and inductions.
Hazards and Risk			
C.60	The quantities of dangerous goods stored and handled at the site shall be below the threshold quantities listed in the Department of Planning's Hazardous and Offensive Development Application Guidelines - Applying SEPP 33 at all times.	Y	Quantities of hazardous chemicals stored on site don't flag the threshold quantities for the application of SEPP 33.
Construction Environmental Management Plan			
D.1	The Applicant shall implement a Construction Environmental Management Plan during construction work for the Development.	N/A	No construction works have taken place on site during this reporting period.
Operational Environmental Management Plan			
D.2	The Applicant shall implement an Operational Environmental Management Plan for the Development b) Be submitted to and approved by the Secretary prior to the commencement of expanded operations	Y	An OEMP for expanded operations was compiled by an external consultant and submitted to the DPE in December 2017. Aspects of this were approved by the Department on 28 May 2018.



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Condition No.	Condition Summary	Complied with Y/N	Comments
Management Plan Requirements			
D.3	The Applicant shall ensure that the environmental management plans required under this consent are prepared in accordance with any relevant guidelines...	Y	The OEMP for the site contains all the relevant information contained in condition D.3.
D.4	The Secretary may waive some of the requirements in Condition D3 if they are unnecessary or unwarranted for particular management plans.	N/A	Noted.
Incident Reporting			
D.5	The Applicant shall notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the Development, the Applicant shall notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	N/A	The site has not experienced any incidents that have resulted or threatened to result in material harm to the environment during the reporting period.
Regular Reporting			
D.6	The Applicant shall provide regular reporting on the environmental performance of the Development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Y	Environmental reporting of monitoring results and updated Pollution Incident Response Management Plans are updated on the Boral website on a regular basis.
Independent Environmental Audit			



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Condition No.	Condition Summary	Complied with Y/N	Comments
D.7	Within 1 year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the Development.	Y	Molino Stewart was engaged in October 2020 to undertake an independent audit. This auditor was approved by the Secretary on 27 October 2020.
D.8	Within three months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Y	The audit report was submitted to the Department 25 February 2021, after seeking an extension to the submission date, which was approved by the Department. The final audit report was submitted to the Department 13 July 2021 and accepted by the Department 3 August 2021. The next independent audit will be conducted October 2023.
Annual Review			
D.9	<p>Within one year of the date of this consent, and every year thereafter, the Applicant shall review the environmental performance of the Development to the satisfaction of the Secretary. This review must:</p> <p>(a) describe the Development that was carried out in the previous calendar year, and the Development that is proposed to be carried out over the next year;</p> <p>(b) include a comprehensive review of the monitoring results and complaints records of the Development over the previous calendar year, which includes a comparison of these results against the: NSW Government & Department of Planning and Environment</p> <p>(i) the relevant statutory requirements, limits or performance measures/criteria;</p> <p>(ii) requirements of any plan or program required under this consent;</p> <p>(iii) the monitoring results of previous years; and</p>	Y	This annual review satisfies the requirements of condition D.9.



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Condition No.	Condition Summary	Complied with Y/N	Comments
	(iv) the relevant predictions in the EIS; (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the Development; (e) identify any discrepancies between the predicted and actual impacts of the Development, and analyse the potential cause of any significant discrepancies; and (f) describe what measures will be implemented over the next year to improve the environmental performance of the Development.		
Revision of Strategies, Plans and Programs			
D.10	Within three months of the submission of an: (a) annual review under Condition D9 above; (b) incident report under Condition D5 above; (c) audit under Condition D7 above; or (d) any modification to this consent, the Applicant shall review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Secretary.	N/A	A review of the OEMP will be initiated during the next reporting period to address the commencement of expanded operations & this annual review. The Surface Water Management Plans for the development are currently with the NSW EPA for comment.
D.11	The Applicant shall ensure that the operation of the Development is undertaken in accordance with all relevant updated and/or amended strategies, management plans and programs approved by the Secretary (or as revised and approved by the Secretary), unless otherwise agreed by the Secretary.	Y	The site's Environmental Permit Planner, toolbox talks, site inductions and internal audits ensure that the site operations are compliant with the management plans referred to in condition D.11.



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Condition No.	Condition Summary	Complied with Y/N	Comments
Access to Information			
D.12	<p>The Applicant shall:</p> <ul style="list-style-type: none"> (a) make copies of the following publicly available on its website: <ul style="list-style-type: none"> (i) the documents referred to in Condition D2; (ii) all current statutory approvals for the Development; (iii) all approved strategies, plans and programs required under the conditions of this consent; (iv) a comprehensive summary of the monitoring results of the Development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; (v) a complaints register, updated on a monthly basis; (vi) minutes of any community meetings held by the Applicant; (vii) the annual reviews of the Development; (viii) any independent environmental audit of the Development, and the Applicant's response to the recommendations in any audit; (ix) any other matter required by the Secretary; and (b) keep this information up to date and to the satisfaction of the Secretary. 	Y	<p>Access to information for this development can be found at the website below:</p> <p>https://www.boral.com.au/our-commitment/environmental-reporting</p> <p>https://www.boral.com.au/locations/boral-recycling-widemere-wetherill-park</p>

6. Comparison of impacts and performance against EIS predictions

A summary of the impacts and performance of the Widemere site against the EIS predictions is presented in Table 18 below.

Table 18 - Comparison of impacts and performance against EIS predictions

Impact	EIS Prediction	Performance November 2021 - November 2022
Air Quality	Cumulative annual average within the site of 4 g/m ² /month.	The mean result for the annual average of Ash at site 1 from November 2021 to November 2022 is 1.62 g/m ² /mth. The mean result for the rolling average of Ash at site 2 from November 2021 to November 2022 is 3.12 g/m ² /mth. In comparison with the previous reporting figures, this indicates a decrease at dust levels measured at sites 1 and 2 such that levels are now below the cumulative annual average predicted in the EIS of 4g/m ² /mth.
Noise	See Table 1 of the EIS report.	Noise monitoring was last undertaken in November & December 2022 to allow prediction of extended hours of operation. Predictions forecasted that all would be in compliance. Additional monitoring will occur in 2023 reporting period.. Noise monitoring indicates compliance with the values predicted in the EIS
Water Quality	Stormwater Discharge Quality TSS <50mg/L pH 6.5-8.5 Oil and Grease <5mg/L	There were no controlled discharges from the site during the current reporting period. However, there were a number of unmanaged overflow events when the 5-day rainfall event volume exceeded 45mm.



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Impact	EIS Prediction	Performance November 2021 - November 2022
Traffic and Transport	Based on 750,000 tpa and 343 days operation. *Light Vehicle 2-way total: 40 *Trucks 2-way total: 451	Light vehicle movements average 38 movements per day. Truck movements average 316.8 movements per day. A truck movement tracking register has been implemented.
Flora and Fauna	No runoff flowing into southern stand of Swamp She-oak Forest.	All onsite water is diverted into the stormwater detention basins to the SW of the site.
Visual Impact	Visibility of the site is limited, stockpiles may be up to 20m high. The existing vegetation along southern boundary provides an effective visual screen	Transit-way vegetation, natural growth in Prospect Creek and trees within Boral land screens the operation. Earth bund is erected along the SE boundary. Planting screening trees is ongoing, as required.
Resource Consumption	Water Supply: Anticipated that stormwater reuse will provide the site water demand for wet and medium years. *During drought years, anticipated off-site water requirements to be only 500m ³ or 14 days site water usage.	The primary water use on site for dust suppression comes from the surface water detention pits and 10 x 30 kL recycled water storage tanks on site. Town water is used on occasion.
Waste Management	Impurities from crushing process taken to recycling centres where possible.	Domestic garbage, plastics etc. to landfill. Less than 0.5% taken to landfill. Reinforcing materials (metals) and paper are recycled.
Potential Hazards	Above ground diesel storage tank to be banded to AS1940-1993 requirements.	Bund can contain >110% of volume. Further, a roof over the self-banded tank & bund has been installed; a rollover bund was installed around the fill point; and the workshop is banded.
Social and Economic	Benefits community, consistent with NSW Government aims to reduce amount of C&D waste going into landfill.	Yes. A large volume of C&D waste received, processed and recycled over the last 12 months, diverting waste away from landfill.



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7. Details when performance goals not achieved

For this reporting period, all comparisons between impacts and performance goals against predictions made in the EIS were compliant.

8. Monitoring data trends

The monitoring data trends available for the life of the project are limited to gravimetric dust deposition at monitoring Site 1 and water quality results for discharge from the sediment basin at EPL point 2 (prior to the 2017 period when EPL 11815 was revised to insert a cessation of discharge condition (condition U1)). The water quality results are presented in the pollution of monitoring data uploaded to the Boral website and are reproduced below for reference (refer to Table 18).

Figure 12 provides a graphical representation of Site 1 gravimetric dust monitoring results for the life of the project. It is evident that the monitoring results were elevated during the 1st year (2003) of operation and monthly spikes are not uncommon during the summer months. Higher levels during summer are not unusual for any operation considering the potential offsite impacts.

Figure 12 also illustrates that the trends, for all parameters measured, have decreased over the life of the project. The Ash trend line is shown on the graph. This decrease is a result of improvements to the facility's processing, handling and dust management over



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Water Discharge	Lab samples - Site 1 (EPL ID # 2)					
	pH	Turbidity	O & G	TSS	KL discharged	5 day Prior Rainfall
	pH	NTU	mg/L	mg/L	KL	mm
Date Sampled	6.5 - 8.5	50	10	150.0	100	>45
2/04/2015	7.9	6.4	1.4	6.4	94.0	59.4
4/04/2015	8.1	6.5	1.5	6.4	6	81.9
21/04/2015	7.8	90.0	1.7	88.0	93	119.7
22/04/2015	8.1	34.0	2.2	63.0	97	207.1
23/04/2015	8.2	42.0	2.9	67.0	93	250.3
24/04/2015	8.1	29.0	3	55.0	86	245.6
19/06/2015	7.9	25.0	1.5	17.0	52	56.9
5/01/2016	7.2	20.0	0.8	33.0	95	74.7
6/01/2016	7.5	45.0	0.6	82.0	99	134.5
7/01/2016	7.5	40.0	0.7	101.0	98	153.5
8/01/2016	7.5	23.0	1.1	32.0	93	153.5
9/01/2016	7.5	24.0	0.8	47.0	90	110.8
18/01/2016	7.7	35.0	1.3	54.0	35	42.5
31/01/2016	7.2	13.0	0.8	12.0	100	66.3
1/02/2016	7.3	17.0	0.5	15.0	813	66.3
2/02/2016	7.3	14.0	0.4	6.4	100	66.6
3/02/2016	7.4	27.0	0.9	10.0	100	64.4
6/06/2016	7.7	20.0	0.8	21.0	97	256.6
7/06/2016	7.0	27.0	1	24.0	99	255.2
8/06/2016	6.9	7.1	0.7	11.0	99	255.2
9/06/2016	7.1	5.7	0.7	14.0	99	245.2

Table 18 – Historical water quality results obtained from EPL discharge point 2

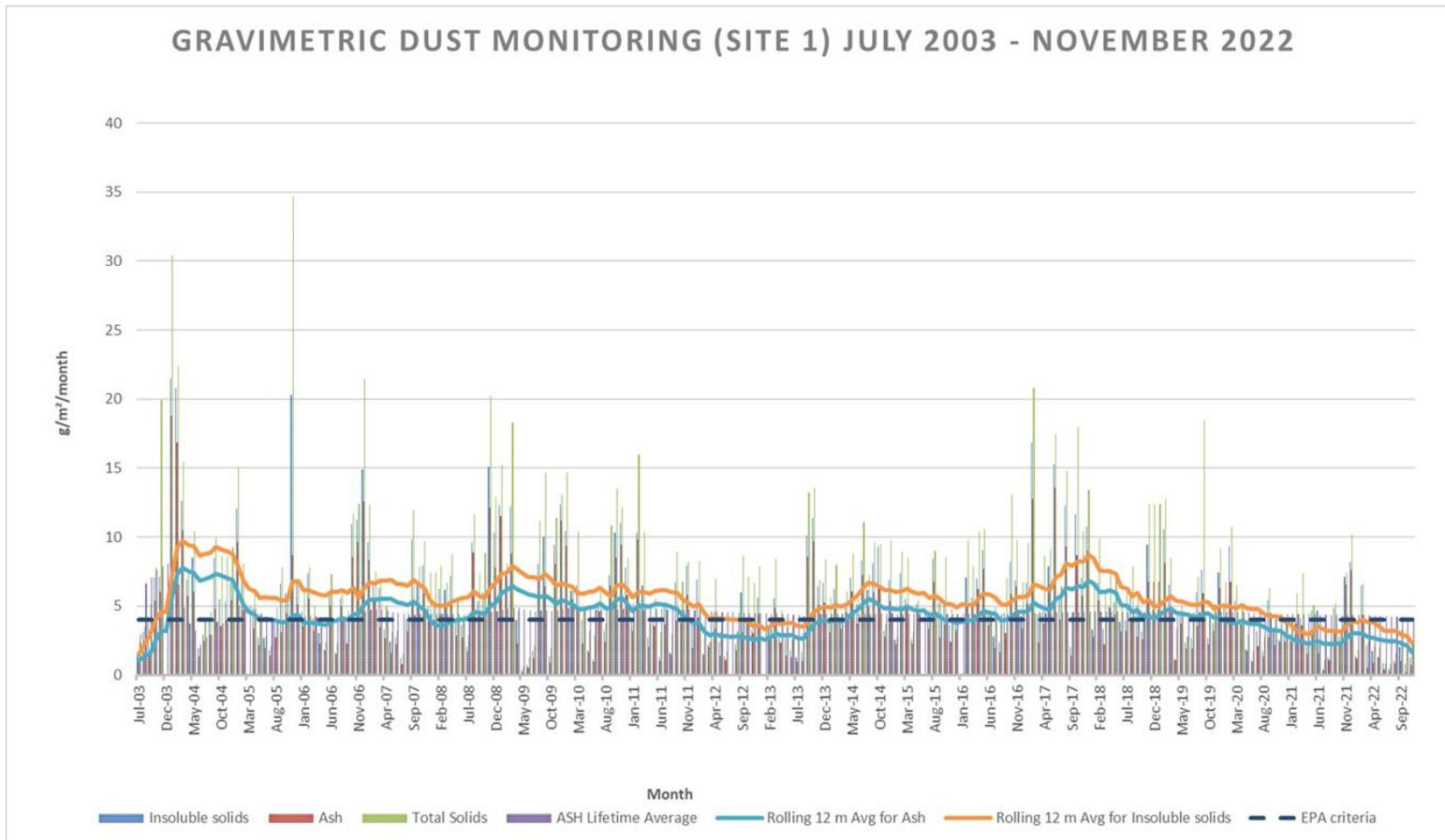


Figure 12 - Gravimetric dust monitoring (Site 2) July 2003 – November 2022

9. Environmental management targets and strategies for the following 12 months

Arising from the commencement of expanded operations, a number of conditions of consent have been triggered. In response, a review of the OEMP and its sub-plans will be undertaken to confirm they are appropriate for the increased operations. A summary of the review requirements is described below.

Table 19 2023 Proposed Actions

	Action
1	Review and update OEMP and sub-plans, as required, including air quality management plan and groundwater monitoring program.
2	Completion of proposed PRP :Validation of implemented mitigation measures” and submission of report to the EPA planned for 29 February 2024
3	Undertake Surface water audit (3 months after item 2 is complete)
4	Develop Water Management Plan
5	Air quality audit recommendation to relocate the dust deposition bottle will be progressed following discussion with the EPA and DPE.
6	Noise monitoring to be conducted to assess expanded operations
7	Boral’s Inspection and Receivals Protocol will be reviewed and updated, as required.
8	Independent audit to be undertaken Oct 2023
9	Boral to engage with DPE concerning the relevance of the condition (C31) given the removal of the clay liner and replacement with HDPE liner
10	As part of the site’s continual improvement program, the site will monitor the current control methods relating to dust, noise, waste management and traffic management and where necessary update and modify existing controls.



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11	Undertaken annual ground water monitoring at least three-months before the end of the Annual Environmental Management Report (AEMR) period at least nine-months after the previous annual monitoring event.
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