Build something great™

Boral Recycling Widemere Annual Review

25 November 2018 - 24 November 2019

Lot 4001
DP 1173524
Widemere Road
Wetherill Park

Development Consent SSD 6525

Prepared by	Reviewed by	Date
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1. Introduction

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 products including recycled 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 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.

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 quoted below, with **bold** text showing where an Annual Review requirement has been addressed in this document. This report accounts for the 12 month period between 25th of November 2018 and 24th November 2019 (the 'reporting period').

'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:

(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 2)**

(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:

(i) The relevant statutory requirements, limits or performance measures/criteria; ***(Section 3.1)***

(ii) Requirements of any plan or program required under this consent; ***(Section 3.2)***

(iii) The monitoring results of previous years; ***(Section 3)*** *and*

(iv) The relevant predictions in the EIS; ***(Section 5)***

(c) Identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; ***(Section 3)***

(d) Identify any trends in the monitoring data over the life of the Development; ***(Section 7)***

(e) Identify any discrepancies between the predicted and actual impacts of the Development, and analyse the potential cause of any significant discrepancies; ***(Section 6)*** *and*

(f) Describe what measures will be implemented over the next year to improve the environmental performance of the Development. ***(Section 8)***

2. Development overview

Development in 2018-2019

Throughout the last 12 months, a number of initiatives have been introduced to improve the facility. These include:

- The upgrade of the on-site water collection/sediment dams to have a 4 mega litre (ML) capacity. This upgrade allows the site to capture more water, as well as move water around the site quicker and more efficiently.

Figure 1: Left dam

Figure 2: Bridge in between dams

Figure 3: Right dam

Figure 4: Photo of the old dam that was upgraded.

- A wedge pit has been installed to capture water that flows around the back haul road of the site. This water will also capture water from the future truck wash which will be installed next to the wedge pit. The water in the wedge pit will also filter through to the water collection/sediment dam

Figure 5: Wedge pit

- Various new sprinklers have been installed to improve dust suppression area around the site.
- Continued environmental compliance through the use of the Environmental Permit Planner (EPP)

Proposed developments for 2019-2020

Further controls are proposed for the site in the current reporting period. These include:

- Complete the installation of a truck washing bay on the back haul road
- As part of the site's continual improvement program, the site will monitor the current control methods and where necessary update and modify existing controls

3. Environmental monitoring results and complaints records

3.1 Relevant statutory requirements and performance criteria

3.1.1 Materials Management

All materials are checked and their origin verified prior to receival on site as per the following checks:

- Communicating the Boral Recycling inspection and receivals protocol to contractors prior to entering site
- Undertaking independent checks on material origin prior to receival 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 & receivals area)
- Rejecting and recording unsatisfactory loads and maintaining a 'rejected loads register' for loads that cannot be accepted on site

A separate procedure for the receival and screening of waste for recycling has been prepared for the site. The current version is within the sites Operational Environmental Management Plans (OEMP).

3.1.2 Dust Management

Fugitive dust control on site has been an area of emphasis since the commencement of operations. Sources of dust include the crushing facility, 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)
- 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 minimises dust creation from trucks
- Dust suppression pumps in dams to assist around the site
- New upgraded water collection/sediment dams increase water capacity on site

3.1.3 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 contain 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 is always maintained at levels acceptable for discharge.

3.1.4 Noise Management

Noise modelling was undertaken and measured by EMM from 2nd to 15th May 2014 as part of the 2015 consent modification for increased capacity of the facility. Based on the modelling results, the noise emissions from the proposed modification would satisfy the PSNLs at all assessment locations.

The noise impact assessment conducted by EMM included noise monitoring at 10 locations in the vicinity of the operation with the following results:

- Operational noise modelling results were assessed and found to be below the Project Specific Noise Levels (PSNLs) at all 10 locations;
- Sleep disturbance assessment results for operations between 10pm and 6am were below the relevant criteria at all 3 of the monitoring locations assessed for sleep disturbance;
- Construction noise assessment results were assessed against operational PSNLs + 5 dB(A) and the results showed that that the construction noise levels associated with the facility would be below the relevant construction noise criteria at all residential assessment locations;
- A cumulative noise (intrusive noise + 3 dB (A)) assessment was conducted to assess the worst case noise generated from site, combined with estimated background industrial noise in the area. The results indicated a noise level increase of 1 dB (A) associated with the proposed upgrades which is considered negligible and within the acceptable criteria;
- A traffic noise assessment was conducted for the nearest residential receptors to the site in Hassall Road. Additional traffic generated noise associated with the proposal was expected to be less than 1 dB which is considered negligible.
- The conclusion of the noise assessment was that any changes to noise emissions from the site as a result of the proposed changes to the DA conditions would be negligible to minimal. Furthermore, all results from the noise assessments conducted were within the acceptable relevant criteria.

- 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 was compiled by EMM and was included in Appendix B of the site Operational Environmental Management Plan (OEMP) approved on 28 May 2018. Some of the measures include:
    - implementation of a noise management program to increase employee awareness of noise issues;
    - 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;
    - scheduling the loading of material which are potentially noisier to occur at the least sensitive time of the day or night
    - siting noisy equipment behind structures that act as barriers, or at the greatest distance from the noise sensitive area;
    - 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;
    - 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).

The site specific operational noise limits provided in the NMP and as per consent condition C.6 of SSD 6525 are outlined in Table 1 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 1: Widemere Recycling Operational Noise Limits

The NMP includes site noise management strategies in line with Condition C9 of SSD 6525 including but not limited to:

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

3.1.5 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, through the use of 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.

The facility does not allow any stockpile heights greater than 20m to ensure a safe working environment in operational areas and to maintain the visual amenity of the site.

The site continues to assess visibility from Reconciliation Rd, assess feasibility to plant extra trees and introduce more species of the Sydney Coastal River Flat Forest variety in around the surrounds of the site.

Due to the changes to the prospect reservoir bike track and development of Reconciliation Drive past the facility site entrance, a small section of the site has become visible to the public. The site previously planted a screen of trees to assist in enhancing the visual amenity along the Prospect Highway 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.

3.1.6 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 2018. 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 was completed during the 2019 reporting period.

3.1.7 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.

3.1.8 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 bunded diesel tank with bowser and a 9,500 L double skinned above ground diesel tank. The 12,500 L diesel tank and associated bunding is connected to an oil/water separator which is serviced by Eclipse on a six monthly basis. Integrity of the 9,500L double skinned tank is inspected regularly. A bund for the oil storage was installed in 2018 ensuring any leakage would be captured.

3.1.9 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. 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.

3.2 Monitoring requirements

3.2.1 Dust Management

Gravimetric gauges have been placed in the following locations;

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

Dust monitoring is undertaken in accordance with the requirements of Table 2 below, section 4.4 of the development consent.

Pollutant/Parameter	Discharge Point	Method	Frequency
Particulate Matter (deposited matter)	g/m²/month	AM-1, AM-19	Continuous

Table 2: Dust Deposition Parameter Monitoring

NSW EPA Approved Method 19 – AS 3580.10.1 Methods of sampling and analysis of ambient air; Determination of particulate Deposited Matter – Gravimetric Method.

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

The annual average, (g/m²/month) for ash at the current sites are listed in the Table below.

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
2. SW Corner**	3.64	2.70	4.03	4.79	3.90	5.25	6.4	4.45
3. SE Corner near Sediment Basins	4.27	3.38	4.76	4.09	5.41	5.23	5.3	4.96

Monitoring Points Test Method AM 19	Dec 2018 – Nov 2019 Av (g/m2/mth) Ash
2. SW Corner**	4.15
3. SE Corner near Sediment Basins	4.27

** EPL 11815 Licensed monitoring point

Table 3: Boral Recycling Dust Deposition Results

In interpreting the results 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 with 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, on a number of occasions the gauges have recorded insoluble solids above the goal of 4g/m2/month. These gauges are located on the operating site and are on occasions influenced by very 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 for 30 minutes as per the standard), be used as a measure to reduce 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.

The dust data for the previous calendar year indicates a decrease of the ash level at dust gauge #2 (EPL location) and site #3. This indicates that the dust generation and minimization activities of the site have been effective. 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.

Figure 6: Boral Recycling Widemere – Dust Deposition Monitoring Locations November 2018 – November 2019.

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.

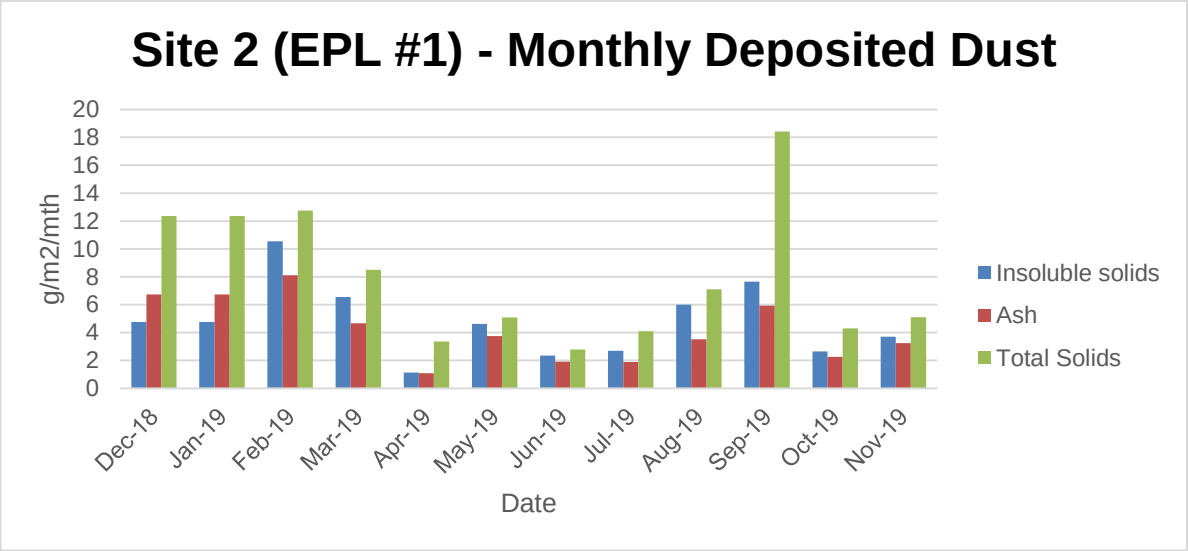

Figure 7: Widemere Recycling annual deposited dust results for Site 2

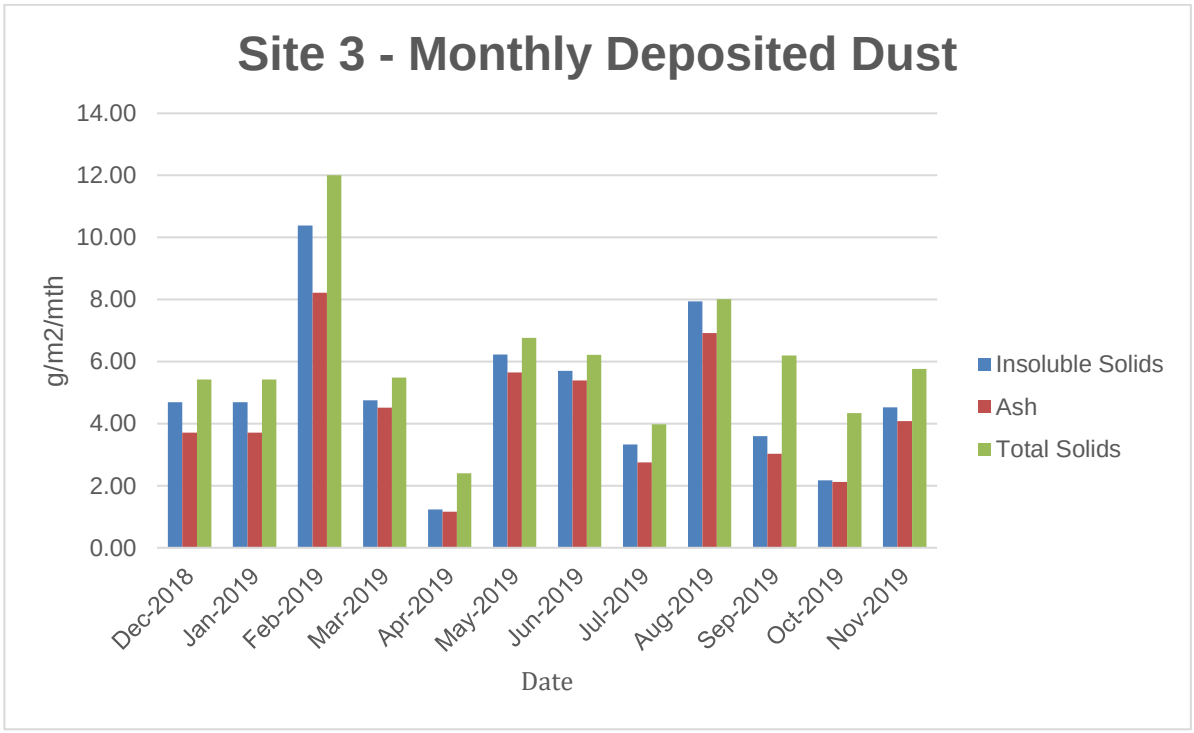

Figure 8: Widemere Recycling annual deposited dust results for Site 3

Figure 9: Location of dust gauges in relation to nearest residential receptors

3.2.1 Noise Monitoring

Noise monitoring is undertaken at least annually and as required following noise related complaints or significant changes to site operations as per the recommendations of the NMP. The OEMP and NMP plan was approved by the Department on 28 May 2018 and the first round of attended noise monitoring was undertaken in May 2019. Results are outlined below.

Table 4.1 Attended noise monitoring results – 18 April 2019

Location ID	Period	Start time	Meteorological condition[1] EPL limits apply (Y/N)	Total noise levels, dB				Estimated site contribution, dB		DA/EPL Limits, dB		Exceedance, dB	Notes
				L_{Amin}	L_{A90}	$L_{Aeq,15\,min}$	L_{Amax}	$L_{Aeq,15min}$	L_{Amax}	$L_{Aeq,15min}$	L_{Amax}		
3	Morning shoulder	6:00am	1.5 m/s, N, clear skies, category D Y	45	47	50	71	IA	IA	39	50	Nil	Site inaudible. Other noise sources include constant traffic on Gipps Road (48-56 dB), intermittent birdsong (46-52 dB), constant industrial hum to north (~45 dB), occasional dog barking (~69 dB) and distant truck reversing alarms to north.
	Day	7:26am	1.5 m/s, N, clear skies, category D Y	43	47	58	81	IA	n/a	39	n/a	Nil	Site inaudible. Other noise sources include local traffic pass-bys (~69 dB), constant birdsong (~45 dB), crows (~53 dB), neighbour activities in yard (~60 dB), occasional dog barking (64-78 dB), traffic on Gipps Road (~50 dB) and distant industrial hum to north (~43 dB).
	Evening	9:02pm	2.5 m/s SE, light clouds, category D Y	40	42	48	67	n/a	n/a	38	n/a	n/a	Site not operating. Other noise sources include local traffic (55-65 dB), traffic on Gipps Road (45-50 dB) and constant insects (~48 dB).
	Night	10:19pm	1.5 m/s SE, light clouds, category D Y	37	40	44	63	n/a	n/a	35	50	n/a	Site not operating. Other noise sources include traffic on Gipps Road (41-48 dB), constant insects (~40 dB) and an aircraft over flight (~48 dB).

Location ID	Period	Start time	Meteorological condition[1] EPL limits apply (Y/N)	Total noise levels, dB				Estimated site contribution, dB		DA/EPL Limits, dB		Exceedance, dB	Notes
				L_{Amin}	L_{A90}	$L_{Aeq,15\,min}$	L_{Amax}	$L_{Aeq,15min}$	L_{Amax}	$L_{Aeq,15min}$	L_{Amax}		
4	Morning shoulder	6:50am	1.5 m/s, N, clear skies, category D Y	42	44	51	75	IA	IA	39	50	Nil	Site inaudible. Other noise sources include persistent birdsong (45-55 dB), distant traffic (42-44 db), industrial district collisions and truck movements (~40 db), bicycle pass-bys (46-56 dB), helicopter over flight (~48 db), two aircraft over flights (~52 db) and local traffic on Hyland Road (55-75 db).
	Day	7:05am	1.5 m/s, N, clear skies, category D Y	41	44	48	62	IA	n/a	39	n/a	Nil	Site inaudible. Other noise sources include constant birdsong (45-55 dB), one aircraft over flight (~55 dB), excavators in industrial area to SW (~45 dB) and distant reversing alarms.
	Evening	9:42pm	2.5 m/s SE, light clouds, category D Y	43	47	51	75	n/a	n/a	37	n/a	n/a	Site not operating. Other noise sources include two aircraft over flights (51-53 dB), constant insects (~49 dB), Distant traffic (~44 db), Distant reversing alarms and industrial hum to south, occasional local traffic on Hyland Road (57-71 dB).
	Night	10:00pm	1.5 m/s SE, light clouds, category D Y	44	47	49	59	n/a	n/a	35	50	n/a	Site not operating. Other noise sources include constant insects (~49 dB), distant traffic (~45 dB), an aircraft over flight (~52 dB) and distant industrial noise to the south.

Location ID	Period	Start time	Meteorological condition[1] EPL limits apply (Y/N)	Total noise levels, dB				Estimated site contribution, dB		DA/EPL Limits, dB		Exceedance, dB	Notes
				L_{Amin}	L_{A90}	$L_{Aeq,15\,min}$	L_{Amax}	$L_{Aeq,15min}$	L_{Amax}	$L_{Aeq,15min}$	L_{Amax}		
5	Morning shoulder	6:23am	1.5 m/s, N, clear skies, category D Y	43	44	53	72	IA	IA	35	50	Nil	Site inaudible. Other noise sources include intermittent birdsong (~65 dB), intermittent insects (~50 dB), industrial hum to west (<42 dB), constant running water in sewerage pump 15m away (~42 dB) and occasional local traffic pass bys (~60dB).
	Day	7:48am	1.5 m/s, N, clear skies, category D Y	42	47	58	78	IA	n/a	35	n/a	Nil	Site inaudible. Other noise sources include constant birdsong (47-70 dB), occasional local traffic pass bys (60-70 dB), distant traffic, industrial hum to west and cockatoos (~66 dB).
	Evening	8:38pm	2.5 m/s SE, light clouds, category D Y	42	44	46	59	n/a	n/a	35	n/a	n/a	Site not operating. Other noise sources include constant insects (~46 dB), running water in sewerage pump (~43 dB), local traffic pass bys (~50 dB) and skateboarders pass by (~55 dB).
	Night	10:41pm	1.5 m/s SE, light clouds, category D Y	40	42	44	59	n/a	n/a	35	50	n/a	Site not operating. Other noise sources include running water in sewerage pump (~43 dB), constant insects (43-47 dB), distant traffic, local traffic pass bys (50-60 dB).

Notes: 1. Meteorological data was taken as an average over 1 hour from the site's weather station.
2. Aircraft over-flights and car pass-bys are reported as the average of peak recorded values
3. The site was not in operation during the evening and night periods

Table 4: Results of the attended noise monitoring in April 2019

Attended noise monitoring observations and results demonstrate that operational noise from the site was inaudible during all monitoring periods when the site was operating. If a noise source is inaudible, it is generally 10 dB below the background (LA90) noise level. The site was not in operation during the evening and night periods. In summary, the measured site LA eq (15 min) noise contribution was found to satisfy the relevant DA/EPL noise limits at all locations. Further, the DA/EPL night period maximum (LA max) limit of 50 dB was satisfied during the morning shoulder period as the site was inaudible and was not relevant during the night period as the site was not operating.

3.2.2 Surface Water Quality

During the reporting period there were no controlled discharges of water off site. Storm water is harvested and re-used for dust suppression and/or used in the blending plant. All discharges to Prospect Creek are recorded in the EPA annual return.

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.

Boral agreed to the inclusion of the following Pollution Reduction Programs on their EPL which were 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).

Following the submission of the reports above it has been agreed with the EPA to undertake further monitoring of waters within the site to identify potential point sources of potential contaminants of concerns. As this requires a large rain event for sampling, and the required amount has not been obtained due to lack of rain, this is still to be completed.

There were no controlled discharges of waters occurred during the current reporting period.

3.2.3 Complaints Register

An environmental complaints register is available on site and online, however all hazards or incidents are recorded into Boral's Safety Incident Management System (SIMS) reporting system.

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 (SIMS) 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.

3.2.4 Procedure for the Receival and Screening of Waste for Recycling

This procedure outlines in detail the steps for, the procedure 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.

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

3.2.5 Storm Water Management Plan

The main water management issues associated with the activities carried out on site are:

- Sediment from stockpiles and open areas being transported from the site in uncontrolled storm water; and
- pH increase in storm water following percolation through recycling concrete stockpiles.

The site is well protected by the storm water detention basins and these are managed as per the sites OEMP.

During the reporting period, approval to undertake controlled discharges under EPL 11815 was temporarily removed by the EPA in order to undertake further investigations into the site's detention water quality. In turn, Boral agreed to the inclusion of the following Pollution Reduction Programs on their EPL which were submitted to the DPE and EPA in April (SWWMP) and May (WCA) 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).

3.2.6 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.

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

4. Compliance with conditions of consent

Table 5 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 5: 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 639,396 tonnes 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; (b) The implementation of any actions or measures contained within these reports, plans or correspondence.	Y	Copies of the SWMMP and Water Characterisation Assessment were submitted to the DPE in the specified timeframe during the current reporting period.

Condition No.	Condition Summary	Complied with Y/N	Comments
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 receival.
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 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.	N/A	Noted.

Condition No.	Condition Summary	Complied with Y/N	Comments
Evidence of Consultation			
B.12	Where consultation with any public authority is required by the conditions of this consent, the Applicant shall: *…comply with conditions (a) to (c)*	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.
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			

Condition No.	Condition Summary	Complied with Y/N	Comments
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			
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 (eAM) 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	Y	Paid on the 18 January 2017.

Condition No.	Condition Summary	Complied with Y/N	Comments
	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.		
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	This condition is applicable once the expanded operations commence.
Waste Management / Waste Monitoring Program:			
C.1	The Applicant shall prepare a Waste Monitoring Program for the Development. This program must: (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	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.

Condition No.	Condition Summary	Complied with Y/N	Comments
	(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, Receival 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.
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			

Condition No.	Condition Summary	Complied with Y/N	Comments
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			
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 eAM system to prevent excessive operational noise emissions. (d) Noise monitoring will be conducted as required as per the NMP.

Condition No.	Condition Summary	Complied with Y/N	Comments
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: *…comply with sections (a) to (i) of the condition.*	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			
C.13	The Applicant shall carry out all reasonable and feasible measures to minimise dust generated by the Development.	Y	The site operates a water cart to spray down internal roads and unsealed areas; sprinklers have been set up along all stockpile / operational areas; 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.

Condition No.	Condition Summary	Complied with Y/N	Comments
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; (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.	Y	All of the mentioned dust mitigation measures in condition C.16 are employed on site at all times.
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: *…comply with conditions (a) to (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 30th June 2017.

Condition No.	Condition Summary	Complied with Y/N	Comments
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 audit was submitted to the EPA on 30th June 2017.
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) and the site's EPL monitoring 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	Discharge from the detention basins only occurs at EPL Identification Point #2. All other surface water from the site is captured and retained in the detention basin.
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…..	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	All monitoring at the discharge point is undertaken in accordance with Section M2.3 of the EPL.
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 removed from the sediment basins are contained in sealed LDPE liner bags to prevent runoff from the 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 on the back road leading to the weighbridge to provide extra wash facilities throughout the site.

Condition No.	Condition Summary	Complied with Y/N	Comments
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 bunded 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 now bunded. All machinery servicing is completed in the workshop. A rollover bund has also been installed at the 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 x 1 o-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	Not yet applicable. Expanded operations is defined as the point that throughput exceeds 750 000t per annum. This reporting period only reached 639,396t.
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.	N/A	Noted.
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.

Condition No.	Condition Summary	Complied with Y/N	Comments
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. EMM has completed final designs for the new dam including 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 now painted on plastic 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 x 1 o-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 DPC (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	Not yet applicable. Expanded operations is defined as the point that throughput exceeds 750 000t per annum. This reporting period only reached 639,396t. However a groundwater monitoring program has been developed as part of the site SWMMP.
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	Noted. The groundwater monitoring program is yet to be completed.
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 Mitigation.	Y	A SWMMP was compiled by an external consultant and the final document was submitted to the DPE on 30th April 2017. The

Condition No.	Condition Summary	Complied with Y/N	Comments
			Department stated in a letter dated 28 May 2018 that the SWMMP was not approved, based on further baseline monitoring being required. The required number of samples is still outstanding as of January 2020 due to limited rainfall events. The SWMMP will be resubmitted following collection and assessment of the required samples.
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	The site SWMMP is not yet approved. Monitoring is occurring where possible.
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	The surface water validation report is currently awaiting data from a significant rainfall event prior to finalisation.
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.
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.
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.

Condition No.	Condition Summary	Complied with Y/N	Comments
C.48	The Applicant shall comply with any reasonable requirement(s) of the Secretary arising from the Surface Water Audit.	N/A	Noted.
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	An unexpected finds protocol was completed in the Construction Environmental Management Plan for the Haul Road upgrade.
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 specifications in the latest version of Australian Standard 2890.1.	Y	The site provides 37 car spaces of acceptable dimensions.
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	The Applicant shall ensure that: (a) the Development does not result in any vehicles parking or queuing on the public road network; (b) the realigned haul road (as identified in Appendix 1) is constructed and maintained in accordance with the relevant Australian Standards; (c) all vehicles are wholly contained on site before being required to stop; (d) all loading and unloading of heavy vehicles is carried out on-site, in particular, all materials when first received at the	Y	(a) Adequate parking is provided on site, therefore no cars are parked outside; (b) All internal roads and haul roads are maintained to acceptable standards; (c) The driveway to the site has sufficient room to accommodate several vehicles to avoid stopping before being wholly within the site; (d) Driver inductions and signage stress the requirement for unloading to take place only in the receivals area;

Condition No.	Condition Summary	Complied with Y/N	Comments
	site shall be unloaded at the receivals area in the north of the site as identified in Appendix 1; (e) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times; (f) all heavy vehicles associated with the Development have their loads covered and do not track dirt onto public roads; (g) all vehicles enter and leave the site in a forward direction; and (h) all vehicles exiting the site that have accessed unpaved areas shall depart via a wheel wash facility.		(e) A clear turning circle for vehicles in the car park is maintained at all times; (f) Driver inductions and toolbox talks identify the requirement to have loads covered at all times except when loading and unloading; (g) The site traffic management plan and site signage promote the entrance and exit to site in a forward direction only; and (h) An operational wheel wash is available for all vehicles exiting site from operational areas.
C.54	The Applicant shall implement a Driver Code of Conduct for heavy vehicle drivers associated with the Development.	Y	Not yet applicable. Expanded operations is defined as the point that throughput exceeds 750 000t per annum. This reporting period only reached 677,165t. The site does have a Driver Code of Conduct issued to all drivers. A copy is within the recently submitted OEMP.
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 OEH are to be notified. Works shall not resume in the designated area until consent in writing from the NSW Police and/or the OEH 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			

Condition No.	Condition Summary	Complied with Y/N	Comments
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 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.	Y	(a) No mature Swamp Oaks have been removed from the site; (b) Regular weed control is conducted by an external contractor; and (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			

Condition No.	Condition Summary	Complied with Y/N	Comments
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.
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 of 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.

Condition No.	Condition Summary	Complied with Y/N	Comments
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 results and updated Pollution Incident Response Management Plans are updated on the Boral website on a regular basis.
Independent Environmental Audit			
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	Element Environment was engaged in November 2017 to undertake an independent audit. This auditor was approved by the Secretary on 21 December 2017. The audit was completed in March 2018
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	Noted.
Annual Review			
D.9	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: (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; (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 (i) the relevant statutory requirements, limits or performance measures/criteria;	Y	This annual review satisfies the requirements of condition D.9.

Condition No.	Condition Summary	Complied with Y/N	Comments
	(ii) requirements of any plan or program required under this consent; (iii) the monitoring results of previous years; and (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	Noted.
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.

Condition No.	Condition Summary	Complied with Y/N	Comments
Access to Information			
D.12	The Applicant shall: (a) make copies of the following publicly available on its website: (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	Access to information for this development can be found at the website below: https://www.boral.com.au/locations/boral-recycling-widemere-wetherill-park

5. Comparison of impacts and performance against EIS predictions

Table 6: Comparison of impacts and performance against EIS predictions

Impact	EIS Prediction	Performance November 2018 - November 2019
Air Quality	Cumulative annual average within the site of 4 g/m²/month.	The mean result for the rolling average of Ash at site 2 since July 2003 is 4.15 g/m²/mth. The mean result for the rolling average of Ash at site 3 since January 2015 is 4.27 g/m²/mth. In comparison with the previous reporting figures, this indicates a decrease at site 2 and 3. Both results are above the EIS prediction, however, both dust monitoring locations are in close proximity to highly active operational areas which can easily influence dust deposition results and these results are not necessarily considered indicative of offsite dust conditions.
Noise	See Table 1 of this report.	Noise monitoring was undertaken in April 2019 and operations adjusted as appropriate. Results are outlined in Table 4 in Section 3.2.1. Noise monitoring indicates compliance which was predicted in the EIS – info about how we comply with noise monitoring
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.
Traffic and Transport	Based on 750, 000 tpa and 300 days operation. *Light Vehicle 2-way total: 40 *Trucks 2-way total: 468	Light vehicle movements average 38 movements per day. Truck movements average 421 movements per day, which is generally in accordance with the EIS prediction. 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.

Impact	EIS Prediction	Performance November 2018 - November 2019
Visual Impact	Visibility of the site is limited, stockpiles maybe 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. Changes to the cycle-way and opening of Reconciliation Road will make areas visible. Planting screening trees is ongoing.
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 bunded to AS1940-1993 requirements.	Bund can contain >110% of volume. Further, a roof over the tank & bund has since been installed; a rollover bund was installed around the fill point; and the workshop is now bunded.
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.

6. Details when performance goals not achieved

Air quality

During the reporting period the annual average for ash at the deposited dust monitoring sites were above the EIS prediction for onsite annual average air quality (4 g/m2/month). It is noted that these predictions were made at receiver locations, whereas site dust gauges are located on the operating site and are on occasions influenced by very 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. The site is continually surfacing unsealed areas of the site with road base and aggregates to minimise fugitive dust emissions and this process will continue in the next reporting period. Section 2 of this review also discusses various new sprinklers and water management measures that have been installed to improve dust suppression around the site.

Furthermore, there are no nearby residential neighbours within a 1 km radius of the site, therefore the risk of dust emissions from the site impacting nearby residents is considered low. The nearest residential receptor to the site is located at 71 Munro Street (see **Figure 8**) which is located approximately 1.4 km from the dust monitoring location Site 2 and approximately 1.0 km from the nearest (north eastern) boundary of the site operation.

7. Monitoring data trends

The only monitoring data trends available for the life of the project are those for gravimetric dust deposition at monitoring Site 2.

Figure 10 provides a graphical representation of Site 2 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 10 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 time.

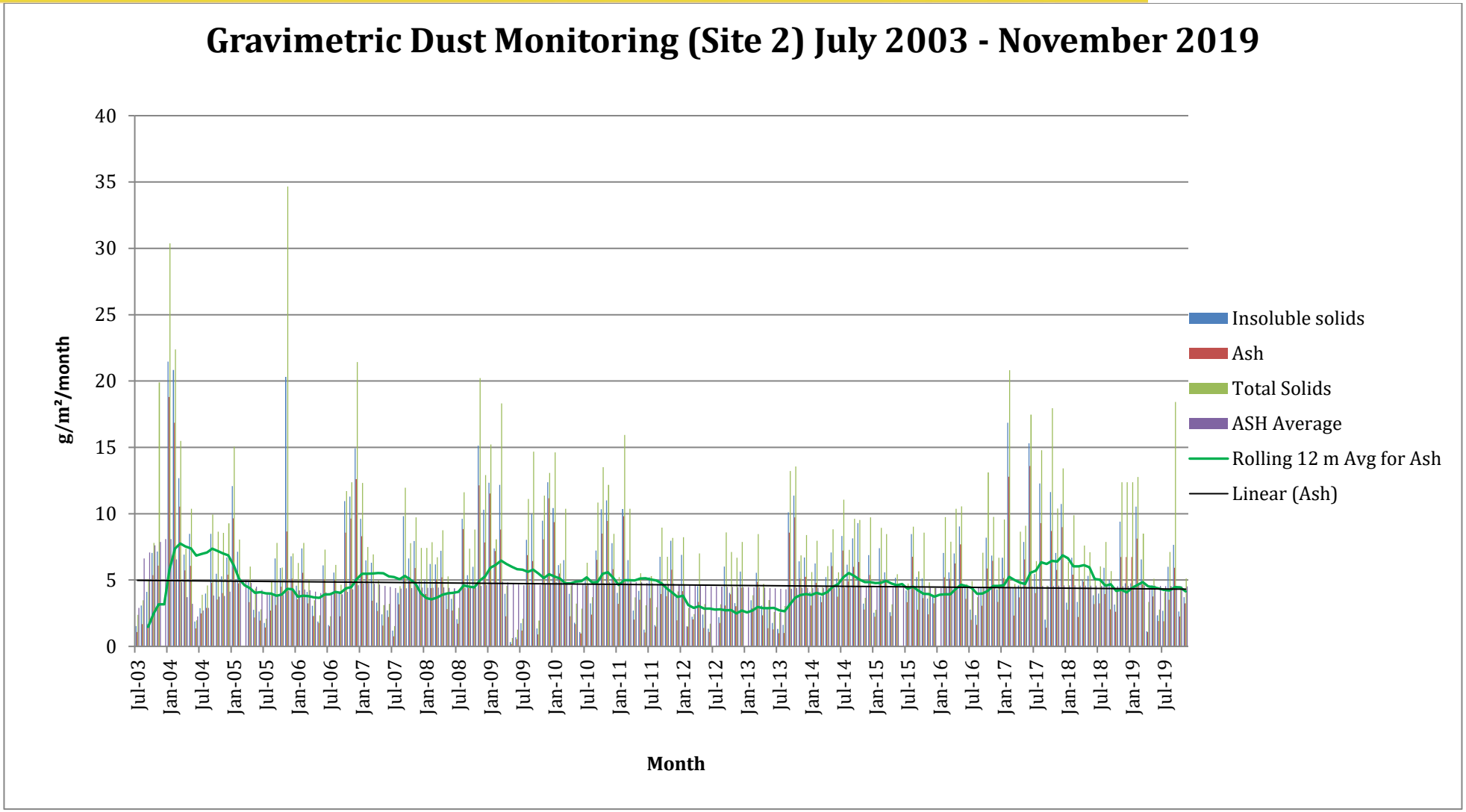

Figure 10 – Gravimetric dust monitoring (Site 2) July 2003 – November 2019

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

8.1 Water Management

Due to the processing capacity of 1,000,000 tonnes per annum of non-putrescible construction and demolition waste, the site is constantly implementing measures to manage or reduce the volumes of surface water runoff from operational areas.

A truck washing area is currently being built next to the back haul road with a washout bay to be installed to minimise run off. The wedge pit next to the washout bay will collect surface run off, and assist filtration of water on site. The new washout area and wedge pit, combined with the concreted road and drainage system, will improve surface runoff throughout the site and assist with recycling extra water. These improvements also assist with dust generation and management for the site.

The upgrade of the new sediment dams allow the site to hold additional capacity of water up to 4 mega Litres which will be beneficial to the site meeting environmental management targets in the next 12 months.