

CONCRUSH PTY LIMITED

ENVIRONMENTAL MANAGEMENT AND MITIGATION MEASURES

TERALBA FACILITY

JULY 2020

PUBLIC



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Environmental Management and Mitigation Measures

Teralba Facility

Concrush Pty Limited

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| REV | DATE | DETAILS |
|-----|-------|---------------------------|
| A | Draft | For Client Review/Comment |
| B | Final | Final |

| | NAME | DATE | SIGNATURE |
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| Prepared by: | Hugh Madden | 19 June 2020 |  |
| Reviewed by: | Hugh Madden | 17 July 2020 |  |
| Approved by: | Johan Goosen | 17 July 2020 |  |

NOISE

Concrush must implement the following plans, programs and strategies during the operational phase of the facility in addition to ensuring the environmental management and mitigation measures detailed in the following table are implemented and/or maintained.

- Operational Noise Management Plan (Condition B47).

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|---|---------------------|---|
| Development Consent Conditions | | | |
| <p>Operation of Plant and Equipment</p> <p>Condition A26 - All plant and equipment used on site, or to monitor the performance of the development must be:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p> | <p>Business Manager</p> <p>Yard Manager</p> <p>Employees</p> <p>Sub-Contractors</p> | <p>At all times</p> | <p>Plant and Equipment Maintenance Schedules.</p> <p>Plant and Equipment Maintenance Records.</p> <p>Operator Daily Pre-Start Checklist / Log Book.</p> |
| <p>Hours of Work</p> <p>Condition B42 – Stage 1 and Stage 2 Operations:</p> <p>Monday to Saturday: 7am to 10pm</p> <p>Sunday and Public Holidays: 8am to 6pm</p> <p>Note – Daytime is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm on Sundays.</p> <p>Note – Evening is defined as the period from 6pm to 10pm.</p> | <p>Business Manager</p> <p>Yard Manager</p> <p>Employees</p> <p>Sub-Contractors</p> | <p>At all times</p> | <p>Site Diary or Daily Work Record.</p> <p>Environmental Checklist (e.g. daily, weekly).</p> <p>Complaints Register.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|---|--|--|
| <p>During the evening period operations are limited to screening and stockpiling or the loading and dispatch of trucks. No crushers can be used during the evening period.</p> | | | |
| <p>Out of Hours Work</p> <p>Condition B43 – Works outside of the hours identified in Condition B42 may be undertaken in the following circumstances:</p> <p>(a) works that are inaudible at the nearest sensitive receivers;</p> <p>(b) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or</p> <p>(c) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>Out of Hours Work</p> | <p>Site Diary or Daily Work Record.</p> <p>Environmental Checklist (e.g. daily, weekly).</p> <p>Noise Monitoring Results/Report.</p> <p>NSW Police Force or other Authority Directive.</p> <p>Complaints Register.</p> <p>Incident Register.</p> |
| <p>Noise Wall</p> <p>Condition B45 - Prior to the commencement of Stage 1 operations, the Applicant must construct a concrete block noise wall on the eastern and southern perimeters of the ‘raw material stockpiles and processing area’, as shown in Figure 1 at Appendix 1 of this consent (i.e. Development Consent SSD 8753). The noise wall must be maintained during the life of the development.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>Prior to commencement of Stage 1 operations</p> | <p>Works as Executed Drawings (including construction completion date of noise walls).</p> <p>Concrush notification to DPIE regarding commencement date of Stage 1 operations.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|---|---|--|
| <p>Operational Noise Limits</p> <p>Condition B46 – The Applicant must install and operate equipment in line with best practice to ensure that the development does not exceed the noise limits as specified in the Environment Protection Licence (EPL) applicable to the site.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>Plant and Equipment Maintenance Schedules.</p> <p>Plant and Equipment Maintenance Records.</p> <p>Operator Daily Pre-Start Checklist / Log Book.</p> <p>Environmental Checklist (e.g. daily, weekly)</p> <p>Noise Monitoring Results/Reports.</p> <p>EPL Annual Return.</p> |
| <p>Operational Noise Management Plan</p> <p>Condition B48(b) – The Applicant must implement the most recent version of the Operational Noise Management Plan approved by the Planning Secretary for the duration of operations.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>DPIE approval of Operational Noise Management Plan.</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified by Operational Noise Management Plan.</p> <p>Records / Compliance Evidence as specified by Operational Noise Management Plan.</p> |
| <p>Concrush’s Management and Mitigation Measures (Appendix 2 of Development Consent)</p> | | | |
| <p>Concrush will undertake a noise monitoring program to assess the effectiveness of the proposed mitigation measures in achieving the predicted noise levels.</p> <p>Concrush will undertake initial noise monitoring of day and evening time activities to compare the actual noise levels against the predicted noise levels.</p> | <p>Business Manager</p> | <p>During operations as specified in Operation Noise Management Plan</p> | <p>Noise Monitoring Results and Reporting.</p> |
| <p>Concrush is committed to looking to improve noise performance across its operations to minimise potential disturbance to the community.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>Following completion of the following:</p> <p>Annual Review</p> <p>Independent Environmental Audit</p> <p>Internal Environmental Audit</p> | <p>Noise Monitoring Results and Reporting.</p> <p>Development Consent Annual Review.</p> <p>Independent Environmental Audit Report.</p> <p>Internal Environmental Audit Report.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|---|---|
| | | | Annual Review of ONVMP (unless triggered earlier). EPL Annual Return. Complaints Register. Incident Register. Non-Compliance Register. Actions Register. |
| <p>Construct a concrete bund wall to 3.5 m above finished ground level along the eastern side of the 'Raw Material Stockpiles and Processing Area'. The bund is required to block line of sight. The bund will be formed using concrete blocks.</p> <p>Crushers and screens (except for the trommel screen used for green waste) will not be used outside this area.</p> <p>The bund should meet the wall along the southern boundary described below.</p> | Business Manager Yard Manager | Prior to commencement of Stage 1 operations | Works as Executed Drawings (including construction completion date of noise walls). Concrush notification to DPIE regarding commencement date of Stage 1 operations. |
| Construct a concrete block wall to 3 m above finished ground level along the southern boundary of the 'Raw Material Stockpiles and Processing Area' | Business Manager Yard Manager | Prior to commencement of Stage 1 operations | Works as Executed Drawings (including construction completion date of noise walls). Concrush notification to DPIE regarding commencement date of Stage 1 operations. |
| The noise bund and wall will be installed prior to commencing operation of the Project. | Business Manager Yard Manager | Prior to commencement of Stage 1 operations | Works as Executed Drawings (including construction completion date of noise walls). Concrush notification to DPIE regarding commencement date of Stage 1 operations. |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|--|--------------------|--|
| Crushers will not be used after 6pm. | Business Manager Yard Manager Employees Sub-Contractors | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Complaints Register. Incident Register. Non-Compliance Register. Actions Register. Noise Monitoring Results and Reporting. Development Consent Annual Review. Independent Environmental Audit Report. Internal Environmental Audit Report. |
| The cone crusher will not be used when green waste shredding is occurring. | Business Manager Yard Manager Employees Sub-Contractors | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Non-Compliance Register. Actions Register. Noise Monitoring Results and Reporting. Development Consent Annual Review. Independent Environmental Audit Report. Internal Environmental Audit Report. |
| Only one activity, either 'screening and stockpiling' or 'loading and dispatch of trucks' would be undertaken at any one time during the evening period. | Business Manager Yard Manager Employees | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Non-Compliance Register. |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|-----------------|--------------------|---|
| | Sub-Contractors | | Actions Register. Noise Monitoring Results and Reporting. Development Consent Annual Review. Independent Environmental Audit Report. Internal Environmental Audit Report. |

AIR QUALITY (ODOUR & DUST)

Concrush must implement the following plans, programs and strategies during the operational phase of the facility in addition to ensuring the environmental management and mitigation measures detailed in the following table are implemented and/or maintained.

- Operational Air Quality Management Plan (Condition B39).

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|---|---------------------|--|
| Development Consent Conditions | | | |
| <p>Operation of Plant and Equipment</p> <p>Condition A26 - All plant and equipment used on site, or to monitor the performance of the development must be:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p> | <p>Business Manager</p> <p>Yard Manager</p> <p>Employees</p> <p>Sub-Contractors</p> | <p>At all times</p> | <p>Plant and Equipment Maintenance Schedules.</p> <p>Plant and Equipment Maintenance Records.</p> <p>Operator Daily Pre-Start Checklist / Log Book.</p> |
| <p>Dust Minimisation</p> <p>Condition B36 - The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.</p> | <p>Business Manager</p> <p>Yard Manager</p> <p>Employees</p> <p>Sub-Contractors</p> | <p>At all times</p> | <p>DPIE approval of Operational Air Quality Management Plant</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified by Operational Air Quality Management Plan.</p> <p>Records / Compliance Evidence as specified by Operational Air Quality Management Plan.</p> |
| <p>Condition B37 – The Applicant must ensure that:</p> | | | |
| <p>(a) all on-site carparking areas are sealed;</p> | <p>Business Manager</p> | <p>At all times</p> | <p>Site Diary or Daily Work Record.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|--|--|
| | Yard Manager | | Environmental Checklist (e.g. daily, weekly). |
| (b) water sprinklers at the stacker above the processed stockpile and transfer points are utilised at all times when then the plant is operational; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |
| (c) the wheel wash at the heavy vehicle egress points is operational at all times; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |
| (d) exposed surfaces and stockpiles are suppressed by regular watering; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |
| (e) sealed roads are swept regularly; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |
| (f) the seal on the main access road from the wheel wash and weighbridge is maintained; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |
| (g) a water cart will remain onsite for use on manoeuvring areas in hot and dry weather; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |
| (h) cease operations during adverse weather conditions as identified in the Response to Submissions (RtS) Report. Cessation of dust emitting activities shall occur during the following conditions: <ul style="list-style-type: none"> • An average wind speed greater than 36km/h is recorded continuously over a 15 minute | Business Manager Yard Manager | During weather conditions as specified | On-Site Weather Station with alarm and SMS notification function. Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|--|--------------------|---|
| <p>period from a north or north westerly direction, or</p> <ul style="list-style-type: none"> Dust suppression measures appear visually ineffective. | | | |
| (i) all trucks entering or leaving the site with loads have their loads covered; and | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. |
| (j) trucks associated with the development do not track dirt onto the public road network. | Business Manager Yards Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. |
| <p>Air Quality Discharges</p> <p>Condition B38 - The Applicant must install and operate equipment in line with best practice to ensure that the development complies with all load limits, air quality criteria/air emission limits and air quality monitoring requirements as specified in the EPL applicable to the site.</p> | Business Manager Yard Manager Employees Sub-Contractors | At all times | Plant and Equipment Maintenance Schedules. Plant and Equipment Maintenance Records. Operator Daily Pre-Start Checklist / Log Book. Air Quality Monitoring Results/Reports. EPL Annual Return. |
| <p>Operational Air Quality Management Plan</p> <p>Condition B40(b) – The Applicant must implement the most recent version of the Operational Air Quality Management Plan approved by the Planning Secretary for the duration of operations.</p> | Business Manager Yard Manager | At all times | DPIE approval of Operational Air Quality Management Plan. Inspections, Calibrations, Monitoring and Reporting as specified by Operational Air Quality Management Plan. Records / Compliance Evidence as specified by Operational Air Quality Management Plan. |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|---|--|--|
| <p>Odour Management</p> <p>Condition B41 - The Applicant must ensure the development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>Complaints Register</p> <p>Incident Register</p> <p>Environmental Checklist (e.g. daily, weekly).</p> |
| <p>Concrush's Management and Mitigation Measures (Appendix 2 of Development Consent)</p> | | | |
| <p>General</p> <p>Update the existing AQMP (operational) to reflect the Project changes.</p> | <p>Business Manager</p> | <p>Prior to commencement of Stage 1 operations</p> | <p>DPIE approval of Operational Air Quality Management Plan.</p> |
| <p>Odour Management</p> <p>Avoid conducting potential odour generating activities when the wind direction is blowing towards nearby residential areas</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>During weather conditions as specified</p> | <p>Site Diary or Daily Work Record (noting weather conditions when conducting potential odour generating activities).</p> <p>Environmental Checklist (e.g. daily, weekly).</p> <p>Complaints Register.</p> |
| <p>Avoid conducting potential odour generating activities during early morning periods under low wind speed conditions.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>During weather conditions and timing as specified</p> | <p>Site Diary or Daily Work Record (noting weather conditions when conducting potential odour generating activities).</p> <p>Environmental Checklist (e.g. daily, weekly).</p> <p>Complaints Register.</p> |
| <p>Cover transported loads leaving the Project site to aid in the control of fugitive emission of odours during transport of potential odour generating products.</p> | <p>Business Manager</p> <p>Yard Manager</p> <p>Vehicle Driver</p> | <p>At all times</p> | <p>Site Diary or Daily Work Record.</p> <p>Environmental Checklist (e.g. daily, weekly).</p> <p>Incident Register.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|---|---|---|
| Turning of windrows during pasteurisation. | Yard Manager | At all times | Site Diary or Daily Work Record. |
| Odour monitoring. | Business Manager | During operations as specified in Operation Air Quality Management Plan | Odour Monitoring Results/Reports. |
| Odour complaint investigation. | Business Manager Yard Manager | In response to odour complaint | Complaints Register and investigation. Incident Register. Non-Compliance Register. Actions Register. |
| Investigative odour monitoring. | Business Manager | In response to odour complaint | Odour Monitoring Results/Reports. |
| Dust Management The use of atomising water sprays on crushing and screening equipment. These shall be attached to the crushing point and conveyor belt discharge point to control point source dust emissions. | Business Manager Yard Manager | At all times | Operator Daily Pre-Start Checklist / Log Book. |
| Two coat seal on haul roads. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |
| Minimisation of the drop heights between the excavator or loader bucket and trailers/truck during loading to reduce dust generation. | Yard Manager Plant/Equipment Operators (e.g. employees or sub-contractors) | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|---|---|--|
| <p>Dust suppression of stockpiles by water spraying on an as needed basis or when the following meteorological conditions occur:</p> <ul style="list-style-type: none"> An average wind speed greater than 18km/h is recorded continuously over a 15 minute period from a north or north westerly direction. | <p>Business Manager Yard Manager</p> | <p>As needed and during weather conditions as specified</p> | <p>On-Site Weather Station with alarm and SMS notification function. Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register.</p> |
| <p>Maintenance of clean entry drive as required to minimise dry dust on road.</p> | <p>Business Manager Yard Manager</p> | <p>At all times</p> | <p>Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly).</p> |
| <p>The use of a water cart to water roads and hardstand areas to assist in the control of fugitive dust emissions on an as needed basis, or when the following meteorological conditions occur:</p> <ul style="list-style-type: none"> An average wind speed greater than 18km/h is recorded continuously over a 15 minute period from a north or north westerly direction. | <p>Business Manager Yards Manager</p> | <p>During weather conditions as specified</p> | <p>On-Site Weather Station with alarm and SMS notification function. Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register.</p> |
| <p>Cessation of dust emitting activities shall occur during the following conditions:</p> <ul style="list-style-type: none"> An average wind speed greater than 36km/h is recorded continuously over a 15 minute period from a north or north westerly direction, or Dust suppression measures appear visually ineffective. | <p>Business Manager Yard Manager</p> | <p>During weather conditions as specified</p> | <p>On-Site Weather Station with alarm and SMS notification function. Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|--|--|---|
| <p>In the event that an engineered dust control measure was to fail, Concrush is committed to stopping operation of the relevant machine or to cease specific dust generating activities within the potentially affected part of the site.</p> | <p>Business Manager Yard Manager</p> | <p>At all times</p> | <p>Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. Actions Register. Plant and Equipment Maintenance Records.</p> |
| <p>The monitoring for deposited dust and PM10 emissions will be undertaken at strategic and representative locations (e.g. the four site boundaries). Monitoring will be undertaken for at least a period of 24 months following the commencement of the expanded operations. This will allow the following:</p> <ul style="list-style-type: none"> • Comparison of monitoring results with compliance levels and the dust modelling predictions. • Review of the effectiveness of the mitigation measures. | <p>Business Manager</p> | <p>During operations (2 years) as specified in Operation Air Quality Management Plan</p> | <p>Depositional Dust and PM10 Air Quality Monitoring Results and Reporting. Development Consent Annual Review. Independent Environmental Audit Report. Internal Environmental Audit Report.</p> |

TRAFFIC & ACCESS

Concrush must implement the following plans, programs and strategies during the operational phase of the facility in addition to ensuring the environmental management and mitigation measures detailed in the following table are implemented and/or maintained.

- Traffic Management Plan (Condition 34).

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|----------------------------------|--------------------|---|
| Development Consent Conditions | | | |
| Receipt, Storage and Handling of Waste Condition B6 - The Applicant must ensure that the waste screening and inspection protocols operate in a manner which does not cause trucks to queue onto Racecourse Road. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. Complaints Register. |
| Parking Condition B31 – Parking is only permitted within designated parking spaces. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. Complaints Register. |
| Operating Conditions Condition B33 – The Applicant must ensure: | | | |
| a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the development are constructed and maintained in accordance with the latest version of | Business Manager Yard Manager | At all times | Works as Executed Drawings. Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|--------------------|---|
| AS 2890.1:2004 Parking facilities Off-street car parking (Standards Australia, 2004) and AS 2890.2:2002 Parking facilities Off-street commercial vehicle facilities (Standards Australia, 2002); | | | |
| (b) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTROADS guidelines; | Business Manager | At all times | Works as Executed Drawings. Environmental Checklist (e.g. daily, weekly). |
| (c) vehicles no larger than 19 m (truck and dog and/or semi-trailer vehicles) are permitted to access the site; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. |
| (d) the development does not result in any vehicles queuing or parking on Racecourse Road; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Complaints Register. Incident Register. |
| (e) heavy vehicles and bins associated with the development are not parked on local roads or footpaths in the vicinity of the site; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Complaints Register. Incident Register. |
| (f) all vehicles are wholly contained on site before being required to stop; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|--|--------------------|---|
| | | | Complaints Register. Incident Register. |
| (g) all loading and unloading of materials/waste is carried out on site; | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Complaints Register. Incident Register. |
| (h) all trucks entering or leaving the site with loads have their loads covered and do not track dirt onto the public road network; and | Business Manager Yard Manager Vehicle Driver | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Complaints Register. Incident Register. |
| (i) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. |
| <p>Traffic Management Plan</p> <p>Condition B35 (b) – The Applicant must implement the most recent version of the Traffic Management Plan approved by the Planning Secretary for the duration of operations.</p> | Business Manager Yard Manager | At all times | DPIE approval of Traffic Management Plan. Inspections, Calibrations, Monitoring and Reporting as specified by Traffic Management Plan. Records / Compliance Evidence as specified by Traffic Management Plan. |
| Concrush’s Management and Mitigation Measures (Appendix 2 of Development Consent) | | | |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|--|---|---|
| <p>The main site entry/exit will be initially widened to 15 metres. Within 12 months of approval the main site entry/exit will be upgraded to consist of an auxiliary left turn with a short turning lane (AUL(s)) and a basic right turn (BAR) treatment to accommodate the anticipated increased movements into and out of the site from Racecourse Road which has an 80 kilometre per hour speed limit. Cycle lane provisions will be accommodated in the turning treatment design.</p> | <p>Business Manager Yard Manager</p> | <p>Prior to commencement of Stage 1 operations and then within 12 months of approval (i.e. prior to 27 March 2021).</p> | <p>Works as Executed Drawings (initial works, including date) Works as Executed Drawings (upgrade works, including date).</p> |

SOIL & WATER

Concrush must implement the following plans, programs and strategies during the operational phase of the facility in addition to ensuring the environmental management and mitigation measures detailed in the following table are implemented and/or maintained.

- Discharge Verification and Mitigation Plan (Condition B14).
- Surface Water Management System including Waste Water System (Condition B16).
- Groundwater Management Plan (Condition B20).
- Erosion and Sediment Control Plan (Condition B22).
- Acid Sulfate Soil Management Plan (Condition B25).
- Long Term Environmental Management Plan (in relation to management of site contamination)
- Pollution Incident Response Management Plan (PIRMP) as per requirement of Environment Protection Licence.

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|---|--------------------|---|
| Development Consent Conditions | | | |
| Operation of Plant and Equipment | | | |
| <p>Condition A26 - All plant and equipment used on site, or to monitor the performance of the development must be:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p> | <p>Business Manager</p> <p>Yard Manager</p> <p>Employees</p> <p>Sub-Contractors</p> | At all times | <p>Plant and Equipment Maintenance Schedules.</p> <p>Plant and Equipment Maintenance Records.</p> <p>Operator Daily Pre-Start Checklist / Log Book.</p> |
| <p>Discharge Limits</p> <p>Condition B11 – The development must comply with section 120 of the POEO Act, which prohibits the</p> | <p>Business Manager</p> <p>Yard Manager</p> | At all times | <p>Environmental Checklist (e.g. daily, weekly).</p> <p>EPL Annual Return.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|---|--|
| pollution of waters, except as expressly provided for in an EPL. | Employees Sub-Contractors | | Incident Register. Non-Compliance Register. Water Quality Monitoring Results/Reports. |
| <p>Discharge Verification and Mitigation Plan</p> <p>Condition B15(c) - implement the most recent version of the Discharge and Verification Mitigation Plan approved by the Planning Secretary for the duration of the development (i.e. operational phase).</p> | Business Manager Yard Manager | At all times | <p>DPIE approval of Discharge Verification and Mitigation Plan.</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified Discharge Verification and Mitigation Plan.</p> <p>Records / Compliance Evidence as specified by Discharge Verification and Mitigation Plan.</p> |
| <p>Surface Water Management System (including Waste Water System)</p> <p>Condition 17 – The Water Management System must be operated and maintained for the duration of the development.</p> | Business Manager Yard Manager | At all times | <p>DPIE approval of Surface Water Management System.</p> <p>Inspections, Calibrations, Monitoring and Reporting as relevant to Surface Water Management System.</p> <p>Records / Compliance Evidence as relevant to Surface Water Management System.</p> |
| <p>Design Verification and Mitigation Report</p> <p>Condition B19 - Within 12 months of commencement of Stage 1 operations, the Applicant must prepare a Discharge Verification and Mitigation Report (DVMR) to the satisfaction of the Planning Secretary. The DMVR must:</p> <p>(a) be prepared by a suitably qualified and experienced person(s) in consultation with the EPA; whose appointment has been endorsed by the Planning Secretary;</p> | Business Manager | Within 12 months of commencement of Stage 1 operations. | <p>Discharge Verification Mitigation Report and date submitted to DPIE.</p> <p>DPIE acceptance of Discharge Verification Report.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|---|---------------------|--|
| <p>(b) be prepared consistent with the methodology in condition B14(a); and</p> <p>(c) detail where management triggers have been exceeded and associated mitigation measures implemented.</p> | | | |
| <p>Surface Water Management System</p> <p>Condition B17 - The Water Management System (WMS) must be operated and maintained for the duration of the development.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>Water Management System.</p> <p>Operation and Maintenance Records required by Water Management Systems.</p> |
| <p>Ground Water Management Plan</p> <p>Condition B21 (b) – The Applicant must implement the most recent version of the Ground Water Management Plan approved by the Planning Secretary for the duration of the development.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>DPIE approval of Groundwater Management Plan.</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified by Groundwater Management Plan.</p> <p>Records / Compliance Evidence as specified by Groundwater Management Plan.</p> |
| <p>Concrush’s Management and Mitigation Measures (Appendix 2 of Development Consent)</p> | | | |
| <p>General</p> | | | |
| <p>Water quality measures will be implemented for the Project to minimise impact on the surrounding environment. These controls are designed and constructed to a standard consistent with:</p> <ul style="list-style-type: none"> Managing Urban Stormwater Soils and Construction, Volume 1 (the Blue Book) (Landcom, 2004). | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>Details of Designer (qualifications and experience).</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|------------------|---|---|
| <ul style="list-style-type: none"> Managing Urban Stormwater Soils and Construction, Volume 2E: Mines and Quarries (DECC, 2008). | | | |
| <p>Operation</p> <p>The operational water management system will incorporate a range of water quality control measures including erosion and sediment control (ESC) measures and will include:</p> | Business Manager | | |
| <ul style="list-style-type: none"> construction of appropriately designed and managed Type D sediment basins (Sediment Dam 1 and Sediment Dam 2) | Business Manager | Prior to the commencement of Stage 1 operations | Details of Designer (qualifications and experience). Works as Executed Drawings. Water Management System. |
| <ul style="list-style-type: none"> separation of the green waste storage and processing catchment and the construction of the Leachate Dam to capture a 1 in 10 year 24 hour duration storm event from the Green Waste Catchment | Business Manager | Prior to the commencement of Stage 1 operations | Details of Designer (qualifications and experience). Works as Executed Drawings. Water Management System. |
| <ul style="list-style-type: none"> installation of a Constructed Wetland to treat water captured in the Leachate Dam | Business Manager | Prior to the commencement of Stage 1 operations | Details of Designer (qualifications and experience). Works as Executed Drawings. Water Management System. |
| <ul style="list-style-type: none"> roofing the retail area mulch storage bays | Business Manager | Prior to the commencement of Stage 1 operations | Details of Designer (qualifications and experience). Works as Executed Drawings. Water Management System. |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|---|---|
| <ul style="list-style-type: none"> increased on-site stormwater storage to increase reuse of captured stormwater and the prioritised reuse of water discharged from the Constructed Wetland | Business Manager | Prior to the commencement of Stage 1 operations | Details of Designer (qualifications and experience). Works as Executed Drawings. Water Management System. |
| <ul style="list-style-type: none"> a leachate barrier system for Project green waste storage and handling area and the lining of the Leachate Dam and Constructed Wetland | Business Manager | Prior to the commencement of Stage 1 operations | Details of Designer (qualifications and experience). Works as Executed Drawings. Water Management System. |
| <ul style="list-style-type: none"> containment of the concrete wash out bay catchment and reuse of the reclaimed water | Business Manager | Prior to the commencement of Stage 1 operations | Details of Designer (qualifications and experience). Works as Executed Drawings. Water Management System. |
| <ul style="list-style-type: none"> monthly inspections of long-term erosion and sediment controls will be undertaken as well as inspections prior to and after forecasted rainfall events greater than or equal to 10 mm. | Business Manager Yard Manager | Monthly Prior to wet weather (10 mm or more forecasted) Post wet weather (10 mm or more actual) | Pre-Wet Weather (10mm or more forecasted) Inspection Records. Post-Wet Weather (10mm or more actual) Inspection Records. Monthly Inspection Record. |
| <ul style="list-style-type: none"> an inspection and maintenance regime to ensure all control measures are maintained in proper working order at all times during their operational lives. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Inspections Records. Actions Register. |
| Monitoring | | | |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|------------------|--|--|
| <p>Monthly surface water quality monitoring of the constructed wetland for the following parameters: Total Suspended Solids (TSS), Electrical Conductivity (EC), pH, Total Nitrogen (TN), Total Phosphorus (TP), Nitrite and Nitrate (NOx), Ammonia</p> | Business Manager | Monthly | <p>DPIE approval of Discharge Verification and Mitigation Plan.</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified Discharge Verification and Mitigation Plan.</p> <p>Records / Compliance Evidence as specified by Discharge Verification and Mitigation Plan.</p> |
| <p>Monthly surface water quality monitoring of the sediment basins (Sediment Dam 1 and Sediment Dam 2) the drainage depression downstream of the Sediment Dam 1 (to the north) and Sediment Dam 2 (to the south) for the following parameters: TSS, EC, pH, TN, TP, NOx, Ammonia Aluminium, Arsenic, Boron, Cadmium, Chromium III, Chromium VI, Cobalt, Copper, Lead, Nickel, Selenium, Zinc</p> | Business Manager | Monthly | <p>DPIE approval of Discharge Verification and Mitigation Plan.</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified Discharge Verification and Mitigation Plan.</p> <p>Records / Compliance Evidence as specified by Discharge Verification and Mitigation Plan.</p> |
| <p>Monthly during discharge surface water quality monitoring of Sediment Dam 1 spillway and Sediment Dam 2 spillway for the following parameters: TSS, EC, pH, TN, TP, NOx, Ammonia Aluminium, Arsenic, Boron, Cadmium, Chromium III, Chromium VI, Cobalt, Copper, Lead, Nickel, Selenium, Zinc.</p> | Business Manager | Monthly | <p>DPIE approval of Discharge Verification and Mitigation Plan.</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified Discharge Verification and Mitigation Plan.</p> <p>Records / Compliance Evidence as specified by Discharge Verification and Mitigation Plan.</p> |
| <p>Groundwater monitoring bores will be installed up and down the hydraulic gradient from the green waste storage and processing area in accordance with the Environmental Guidelines for Composting and</p> | Business Manager | <p>Prior to commencement of Stage 1 operations.</p> <p>Monthly</p> | <p>DPIE approval of Discharge Verification and Mitigation Plan.</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified Discharge Verification and Mitigation Plan.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|--|---------------------|--|
| <p>Related Organics Processing Facilities (NSW Department of Conservation, 2004).</p> <p>Water quality samples will be collected from the monitoring bores on a monthly basis and analysed for TSS, EC, pH, TN, TP, NOx and Ammonia.</p> | | | <p>Records / Compliance Evidence as specified by Discharge Verification and Mitigation Plan.</p> |
| <p>Concrush will monitor the following water volumes:</p> <ul style="list-style-type: none"> • monthly potable water imported via water cart • monthly water storage inventories • water inventories of Sediment Dam 1 and Sediment Dam 2 following rainfall monthly during discharge flows at the Sediment Dam 1 spillway and Sediment Dam 2 spillway • monthly during spill at the Leachate Dam spillway (note that the Leachate Dam spills to Sediment Dam 2 rather than directly off-site) | <p>Business Manager Yard Manager</p> | <p>At all times</p> | <p>Water Volumes Records as specified.</p> |

ECOLOGY

Concrush must implement the following environmental management and mitigation measures.

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|---|--|---|
| Development Consent Conditions | | | |
| <p>Pests, Vermin and Noxious Weeds Management</p> <p>Condition B10 - The Applicant must:</p> <ul style="list-style-type: none"> (a) implement suitable measures to manage pests, vermin and declared noxious weeds on the site; and (b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or noxious weeds are not present on site in sufficient numbers to pose an environmental hazard or cause the loss of amenity in the surrounding area. <p>Note - For the purposes of this condition, noxious weeds are those species subject to an order declared under the Noxious Weed Act 1993.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> <p>Monthly (inspections)</p> | <p>Environmental Checklist (e.g. daily, weekly).</p> <p>Records of pest and vermin control treatments.</p> <p>Record of noxious weeds control treatments.</p> <p>Monthly Site Inspection (Pest, Vermin and Noxious Weeds Management).</p> |
| Concrush's Management and Mitigation Measures (Appendix 2 of Development Consent) | | | |
| <p>The Project design has taken into account the wetland area in the western part of the site which will not be disturbed.</p> <p>Mitigation and management measures for other environmental aspects such as soil and water and air</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>Safety Barrier Flagging or Fencing installed and maintained to protect wetland area.</p> <p>Sign-posting of wetland area (No Go Zone).</p> <p>Environmental Checklist (e.g. daily, weekly).</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|--|---------------------|--|
| <p>quality will minimise the potential for indirect offsite impacts such as sedimentation of waterways, nutrient discharge and dust impacts.</p> | | | |
| <p>The following mitigation and management measures will be implemented for the Project:</p> <ul style="list-style-type: none"> • Areas to be protected during including the wetland area will be clearly marked. • Any landscape planting will consist of native species. | <p>Business Manager Yard Manager</p> | <p>At all times</p> | <p>Safety Barrier Flagging or Fencing installed and maintained to protect wetland area.</p> <p>Sign-posting of wetland area (No Go Zone).</p> <p>Environmental Checklist (e.g. daily, weekly).</p> <p>Record of plant species used for landscaping (installation and maintenance).</p> |

BUSHFIRE & FIRE

Concrush must implement the following plans, programs and strategies during the operational phase of the facility in addition to ensuring the environmental management and mitigation measures detailed in the following table are implemented and/or maintained.

- Pollution Incident Response Management Plan (PIRMP) as per requirement of Environment Protection Licence.
- Emergency Management Plan Fire (Condition B55).

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|---|--|
| Development Consent Conditions | | | |
| Note – Condition B55 requires an Emergency Management Plan (Fire) for the operations of the facility. | Business Manager | Prior to commencement of Stage 1 operations | Emergency Management Plan (Fire) Training Records (as specified by the Emergency Management Plan – Fire). Incident Register. |
| Note – Condition B56 requires that FRNSW compatible fittings are installed on the water storage tanks near the garden and wood waste and ensure the provision of fire extinguishers on all machinery. | Business Manager | Prior to commencement of Stage 1 operations | Record of installation. Details of fittings installed. |
| Concrush’s Management and Mitigation Measures (Appendix 2 of Development Consent) | | | |
| Concrush have an existing Pollution Incident Response Management Plan (PIRMP) which includes the relevant evacuation procedure for staff and the public in relation to bushfire threat. Threat of the combustion of product on site is managed through appropriate storage of materials and | Business Manager Yard Manager | At all times | Pollution Incident Response Management Plan (requirement of EPL). Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|----------------------------------|--|---|
| <p>implementation of separation distances between stockpiles.</p> <p>During hot conditions stockpiles are wetted down and all operators are trained in firefighting techniques.</p> <p>Note – the PIRMP is a requirement of the Environment Protection Licence (EPL 13351)</p> | | | <p>Training Records (operators trained in firefighting techniques).</p> <p>Incident Register.</p> |
| <p>The following specific bushfire management measures are to be implemented at the site to manage the risk associated with the bushfire hazard:</p> | | | |
| <ul style="list-style-type: none"> Installation of Fire and Rescue NSW compatible fittings on the water storage tanks near the green waste area | Business Manager | Prior to commencement of Stage 1 operations. | <p>Record of installation.</p> <p>Details of fittings installed.</p> |
| <ul style="list-style-type: none"> Management of the pasteurisation process within green waste stockpiles | Business Manager Yard Manager | At all times | <p>Procedure for conducting green waste pasteurisation and voiding combustion events.</p> <p>Training Records (Pasteurisation Procedure).</p> <p>Incident Register.</p> |
| <ul style="list-style-type: none"> Ensure machinery is available on site to break up green waste stockpiles in the event of combustion during pasteurisation | Business Manager Yard Manager | At all times | <p>Record of plant/equipment maintained on site.</p> <p>Environmental Checklist (e.g. daily, weekly).</p> |
| <ul style="list-style-type: none"> Continued management of vegetation across the site to manage fuel loads and prevent the spread of bushfire across the site | Business Manager Yard Manager | At all times | <p>Record of vegetation management activities undertaken.</p> <p>Site Diary or Daily Work Record.</p> <p>Environmental Checklist (e.g. daily, weekly).</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|--------------------|---|
| <ul style="list-style-type: none"> Continued provision of fire extinguishers on all machinery | Business Manager Yard Manager | At all times | Fire Extinguisher Register. Servicing Records for Fire Extinguishers. |
| <ul style="list-style-type: none"> Ensuring access to the site is maintained at all times. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. |

ABORIGINAL ARCHAEOLOGY & CULTURAL HERITAGE

Concrush must implement the following environmental management and mitigation measures.

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|---|---------------------|---|
| Development Consent Conditions | | | |
| Unexpected Finds Protocol | | | |
| <p>Condition B66 - If any item or object of Aboriginal heritage significance is identified on site:</p> <p>(a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;</p> <p>(b) a 10 m wide buffer area around the suspected item or object must be cordoned off; and</p> <p>(c) the DPIE (EES) must be contacted immediately.</p> | <p>Business Manager</p> <p>Yard Manager</p> <p>Employees</p> <p>Sub-Contractors</p> | <p>At all times</p> | <p>Site Diary or Daily Work Record.</p> <p>Incident Register.</p> <p>Notification of DPIE (EES)</p> |
| <p>Condition B67 - Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the National Parks and Wildlife Act 1974.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>Confirmation from DPIE (EES) that work can recommence.</p> <p>Aboriginal Heritage Consultant reports and advice.</p> |
| Concrush's Management and Mitigation Measures (Appendix 2 of Development Consent) | | | |
| <p>Concrush will ensure that its employees and contractors are aware that it is an offence under Section 86 of the National Parks and Wildlife Act 1974 to harm or desecrate an Aboriginal object unless</p> | <p>Business Manager</p> | <p>At all times</p> | <p>Training / Induction Records.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|----------------------------------|--------------------|--|
| that harm or desecration is the subject of an Aboriginal Heritage Impact Permit. | | | |
| In the unlikely event that an Aboriginal object or objects are uncovered during the proposed construction works, ground disturbance works should cease within 20 m of the object and an archaeologist, DPIE (EES/OEH) and the local Aboriginal parties should be contacted to determine an appropriate management strategy. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Incident Register. DPIE (EES/OEH) Notification. |

HISTORICAL HERITAGE

Concrush must implement the following environmental management and mitigation measures.

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|--|--------------------|--|
| Development Consent Conditions | | | |
| No specific Development Consent Conditions. | Not Applicable | Not Applicable | Not Applicable |
| Concrush's Management and Mitigation Measures (Appendix 2 of Development Consent) | | | |
| If during the course of proposed works previously unknown historical archaeological material or heritage items are discovered, all work in the area of the item(s) shall cease immediately and Heritage NSW, DPIE (EES/OEH) and a qualified heritage consultant will be consulted, in accordance with Section 146 of the Heritage Act, to determine an appropriate course of action prior to the recommencement of work in the area of the item. | Business Manager Yard Manager Employees Sub-Contractors | At all times | Site Diary or Daily Work Record. Incident Register. Notification of Heritage NSW, DPIE (EES/OEH) Heritage Consultant reports and advice. Confirmation from Heritage NSW / DPIE (EES/OEH) that work can recommence. Training / Induction Records |

VISUAL

Concrush must implement the following plans, programs and strategies during the operational phase of the facility in addition to ensuring the environmental management and mitigation measures detailed in the following table are implemented and/or maintained.

- Landscape Management Plan (Condition B57)

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|--|---------------------|--|
| Development Consent Conditions | | | |
| Landscaping | | | |
| <p>Condition B58 – The Applicant must:</p> <ul style="list-style-type: none"> (a) implement the most recent version of the Landscape Management Plan; and (b) maintain the landscaping and vegetation on the sit in accordance with the approved Landscape Management Plan required by condition B57 for the life of the development. | <p>Business Manager Yard Manager</p> | <p>At all times</p> | <p>DPIE approval of Landscape Management Plan. Inspections, Calibrations, Monitoring and Reporting as specified by the Landscape Management Plan. Records / Compliance Evidence as specified by Landscape Management Plan. Environmental Checklist (e.g. daily, weekly). Maintenance records in relation to landscaping.</p> |
| Lighting | | | |
| <p>Condition B59 – The Applicant must ensure the lighting associated with the development:</p> <ul style="list-style-type: none"> (a) complies with the latest version of AS4282-1997 – Control of the obtrusive effects of outdoor lighting (Standards Australia, 1997); and | <p>Business Manager Yard Manager</p> | <p>At all times</p> | <p>Lighting compliance assessment (night time assessment). Site Diary or Daily Work Record. Complaints Register. Incident Register.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|---|--|
| (b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network. | | | |
| Signage and Fencing | | | |
| Condition B60 – All signage and fencing must be erected in accordance with the Environmental Impact Statement (EIS) | Business Manager Yard Manager | At all times | Details of Designer (qualifications and experience). Works as Executed Drawings. |
| Concrush’s Management and Mitigation Measures (Appendix 2 of Development Consent) | | | |
| The following management measures would be implemented as part of the Project: | | | |
| <ul style="list-style-type: none"> A landscaped 2 m high earth bund will be established along the eastern boundary (southern half) of the site to complement the existing landscaped earth bund present along the northern half of the eastern site boundary. Landscape plantings will consist of locally endemic species. | Business Manager | Prior to commencement of Stage 1 operations | Details of Designer (qualifications and experience). Works as Executed Drawings. |
| <ul style="list-style-type: none"> Additional areas of landscape plantings will be incorporated into the detailed design. This may include tree planting adjacent to the wetland area in the south western portion of the site and potentially incorporating tree planting into the swale drain design along the southern boundary of the site. | Business Manager | Prior to the commencement of Stage 1 operations | DPIE approval of Landscape Management Plan. Inspections, Calibrations, Monitoring and Reporting as specified by the Landscape Management Plan. Records / Compliance Evidence as specified by Landscape Management Plan. Maintenance records in relation to landscaping. |

WASTE

Concrush must implement the following plans, programs and strategies during the operational phase of the facility in addition to ensuring the environmental management and mitigation measures detailed in the following table are implemented and/or maintained.

- Waste Management Plan (Condition B3)
- Waste Monitoring Program (Condition B5)

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|------------------|--|---|
| Development Consent Conditions | | | |
| Waste Limits | | | |
| Condition A6 - The only type of waste permitted to be received or processed at the site is waste classified as general solid waste(non-putrescible). | Business Manager | At all times | Waste Classification Reports. |
| Condition A7 - The Applicant must not: (a) receive or process more than 250,000 tonnes of general solid waste (non- putrescible) per annum, which includes no more than 5,000 tonnes of garden and wood waste; and (b) store more than 150,000 tonnes of general solid waste (non- putrescible) at any one time, which includes 200 tonnes of garden and wood waste. | Business Manager | At all times | Waste Reveal Records. Waste Classification Reports. Waste Processing Records. Waste Storage Records. |
| Condition A8 - Despite condition A7(a) and condition A7(b), the Applicant must not receive or process more than 108,000 tonnes per annum or store more than 40,000 tonnes of general solid waste (non-putrescible) at any one time until Stage 1 construction | Business Manager | Prior to the completion of Stage 1 construction and prior to the Planning Secretary's approval for the commencement of Stage 1 operations. | Waste Reveal Records. Waste Classification Reports. Waste Processing Records. |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|----------------------------------|--|--|
| is complete and the Planning Secretary has approved the commencement of Stage 1 operations. | | | Waste Storage Records. |
| Condition A9 - Despite condition A7(a) and condition A7(b), the Applicant must not receive or process more than 200,000 tonnes per annum or store more than 150,000 tonnes at any one time of general solid waste (non-putrescible) during Stage 1 operations. | Business Manager | At all times during Stage 1 operations | Waste Receiving Records. Waste Classification Reports. Waste Processing Records. Waste Storage Records. |
| Condition A10 - Despite condition A7(a) and condition A7(b), the Applicant must not proceed to Stage 2 operations (receive and process up to 250,000 tonnes per annum and store up to 150,000 tonnes at any one time of general solid waste) until Stage 1 construction and Stage 2 construction is complete and the Planning Secretary has approved commencement of Stage 2 operations. | Business Manager | Prior to the completion of Stage 1 and Stage 2 construction and prior to the Planning Secretary's approval for the commencement of Stage 2 operations. | Waste Receiving Records. Waste Classification Reports. Waste Processing Records. Waste Storage Records. |
| Condition A11 - Stockpiles of processed and/or unprocessed waste on site must not be more than 10 metres in height when measured from the finished ground level of the site. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Incident Register. |
| Statutory Requirements | | | |
| Condition B1 - Concrush must assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the latest version of EPA's Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014) and dispose of all wastes to a facility that may lawfully accept the waste. | Business Manager | At all times | Waste Classification Reports. |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|----------------------------------|--------------------|--|
| <p>Condition B2 - The Applicant must retain all sampling and waste classification data for the life of the development in accordance with the requirements of EPA.</p> | Business Manager | At all times | Waste Classification Reports (and associated sampling/testing results) |
| <p>Waste Management Plan</p> | | | |
| <p>Condition B4(c) – The Applicant must implement the most recent version of the Waste Management Plan approved by the Planning Secretary.</p> | Business Manager Yard Manager | At all times | <p>DPIE approval of Operational Waste Management Plan.</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified by Operational Waste Management Plan.</p> <p>Records / Compliance Evidence as specified by Operational Waste Management Plan.</p> |
| <p>Waste Monitoring Program</p> | | | |
| <p>Condition B5 - the Applicant must implement a Waste Monitoring Program for the Development.</p> | Business Manager | At all times | <p>DPIE approval of Waste Monitoring Program</p> <p>Inspections, Calibrations, Monitoring and Reporting as specified by Waste Monitoring Program.</p> <p>Records / Compliance Evidence as specified by Waste Monitoring Program.</p> |
| <p>Receipt, Storage and Handling of Waste</p> | | | |
| <p>Condition B6 – The Applicant must ensure that the waste screening and inspection protocols operate in a manner which does not cause trucks to queue onto Racecourse Road.</p> | Business Manager Yard Manager | At all times | <p>Site Diary or Daily Work Record.</p> <p>Environmental Checklist (e.g. daily, weekly).</p> <p>Complaints Register.</p> <p>Incident Register.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|--|--|
| Condition B7 - Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Complaints Register. Incident Register. |
| Condition B8 - The Applicant must only receive waste on site that is authorised for receipt by an Environmental Protection Licence (EPL). | Business Manager Yard Manager | At all times | Waste Classification Reports (and associated sampling/testing results). EPL Annual Return. |
| Condition B9 - The Applicant must provide details of the allocated heavy vehicle and source of wastes received on the site to the EPA and the Planning Secretary when requested. | Business Manager | On request from EPA and/or Planning Secretary (DPIE) | Source of waste information and details of heavy vehicles associated with its delivery to facility. |
| Garden and Wood Waste Processing | | | |
| Condition B24 - The Applicant must ensure garden and wood waste leachate is not reused outside of the garden and wood waste leachate barrier system, unless written approval has been granted by the EPA. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Leachate re-use records (including area of use) Environmental Checklist (e.g. daily, weekly). EPA written approval (for reuse of leachate outside of the garden and wood waste leachate barrier system). |
| Concrush's Management and Mitigation Measures (Appendix 2 of Development Consent) | | | |
| The following management measures would be implemented as part of the Project: | | | |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|--------------------|---|
| <ul style="list-style-type: none"> Waste streams will be managed in accordance with the principles of the waste hierarchy, with emphasis on reduce, reuse, recycle prior to disposal of its wastes. | Business Manager Yard Manager | At all times | Waste Receiving Records. Waste Classification Reports. Waste Processing Records. Waste Storage Records. Waste Disposal Records. |
| <ul style="list-style-type: none"> All material used will be in accordance with the relevant requirements and conditions of the exemptions | Business Manager | At all times | Provision of material use guidance (and associated limitations) to buyers of products from Concrush. |
| <ul style="list-style-type: none"> General waste generated by site personnel during operation of the Project will be accommodated through the use of a 240 litre municipal waste bin to be collected by LMCC or a licensed contractor for disposal/recycling at an appropriate waste management facility. | Business Manager Yard Manager | At all times | Site Diary or Daily Work Record. Environmental Checklist (e.g. daily, weekly). Waste disposal records. |

GREENHOUSE GAS

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|----------------|--------------------|-------------------|
| No specific Development Consent Conditions. No mitigation or management measures are required for the Project. | Not Applicable | Not Applicable | Not Applicable |

HAZARD & RISK

Concrush must implement the following plans, programs and strategies during the operational phase of the facility in addition to ensuring the environmental management and mitigation measures detailed in the following table are implemented and/or maintained.

- Pollution Incident Response Management Plan (PIRMP) as per requirement of Environment Protection Licence.
- Flood Emergency Response Plan (Condition B26)
- Emergency Management Plan Fire (Condition B55)
- Long Term Environmental Management Plan (in relation to the management of site contamination).

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|---|---------------------|--|
| Development Consent Conditions | | | |
| Operation of Plant and Equipment | | | |
| <p>Condition A26 - All plant and equipment used on site, or to monitor the performance of the development must be:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p> | <p>Business Manager</p> <p>Yard Manager</p> <p>Employees</p> <p>Sub-Contractors</p> | <p>At all times</p> | <p>Plant and Equipment Maintenance Schedules.</p> <p>Plant and Equipment Maintenance Records.</p> <p>Operator Daily Pre-Start Checklist / Log Book.</p> |
| Flooding | | | |
| <p>Condition B27(b) - The Applicant must: implement the most recent version of the Flood Emergency Response Plan approved by the Planning Secretary for the duration of the development.</p> | <p>Business Manager</p> <p>Yard Manager</p> | <p>At all times</p> | <p>DPIE Approval of Flood Emergency Response Plan</p> <p>Training Records (as specified by Flood Emergency Response Plan).</p> <p>Incident Register.</p> |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|--|----------------------------------|---|--|
| Fire Management | | | |
| Note – Condition B55 requires an Emergency Management Plan (Fire) for the operations of the facility. | Business Manager | Prior to the commencement of Stage 1 operations | Emergency Management Plan (Fire) Training Records (as specified by the Emergency Management Plan – Fire). Incident Register. |
| Note – Condition B56 requires that FRNSW compatible fittings are installed on the water storage tanks near the garden and wood waste and ensure the provision of fire extinguishers on all machinery. | Business Manager | Prior to the commencement of Stage 1 operations | Record of installation. Details of fittings installed. |
| Hazards and Risks | | | |
| Dangerous Goods | | | |
| Condition B62 - The Applicant must store all chemicals, fuels and oils used on-site in accordance with: (a) the requirements of all relevant Australian Standards; and (b) the NSW EPA’s Storing and Handling of Liquids: Environmental Protection – Participants Manual if the chemicals are liquid. | Business Manager Yard Manager | At all times | Dangerous Goods Register (including quantities/volumes stored). Dangerous Goods Storage Compliance Assessments. Incident Register. |
| Condition B63 - In the event of an inconsistency between the requirements B62(a) and B62(b), the | Business Manager Yard Manager | At all times | Dangerous Goods Register (including quantities/volumes stored). |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|----------------------------------|--------------------|--|
| most stringent requirement must prevail to the extent of the inconsistency. | | | Dangerous Goods Storage Compliance Assessments. Incident Register. |
| Condition B64 - The quantities of dangerous goods stored and handled at the site must be below the threshold quantities listed in the Department of Planning's <i>Hazardous and Offensive Development Application Guidelines – Applying SEPP 33</i> at all times. | Business Manager Yard Manager | At all times | Dangerous Goods Register (including quantities/volumes stored). Dangerous Goods Storage Compliance Assessments. Incident Register. |
| Bunding | | | |
| Condition B65 - The Applicant must store all chemicals, fuels and oils used on-site in appropriately banded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's Storing and Handling of Liquids: Environmental Protection Participants Manual (Department of Environment and Climate Change, 2007). | Business Manager Yard Manager | At all times | Chemicals, Fuels and Oils Register (including quantities/volumes stored). Storage Compliance Assessments. Incident Register. |
| Concrush's Management and Mitigation Measures (Appendix 2 of Development Consent) | | | |
| Concrush has safety management system documents and procedures including a PIRMP. The PIRMP will be applied to ensure that all foreseeable emergency events are considered and adequate site specific systems are put in place to ensure site personnel and equipment are ready and able to deal with an emergency situation. | Business Manager Yard Manager | At all times | Pollution Incident Response Management Plan (PIRMP) Training Records (as specified in PIRMP) Incident Register. |

| ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURE | RESPONSIBILITY | TIMING / FREQUENCY | COMPLIANCE RECORD |
|---|----------------------------------|--------------------|--|
| Concrush will store all flammable and combustible liquids in accordance with the requirements of AS1940: The storage and handling of flammable and combustible liquids. | Business Manager Yard Manager | At all times | Chemicals, Fuels and Oils Register (including quantities/volumes stored). Storage Compliance Assessments. Incident Register. |