



Application for Works Approval

Part V Division 3 of the *Environmental Protection Act 1986*

Works Approval Number W6781/2023/1

Applicant Alltrack 2 WA Pty Ltd

ACN 629 744 074

File Number DER2018/001042~8

Premises Lot 1 Wannamal Road West
Boonanarring, Gingin 6503
Legal description
Part of Lot 1 on Deposited Plan 415372

Date of Report 07 June 2023

Decision Works approval granted

A/MANAGER, RESOURCE INDUSTRIES
REGULATORY SERVICES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

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1. Decision summary

This Decision Report documents the assessment of potential risks to the environment and public health from emissions and discharges during the construction and operation of the Premises. As a result of this assessment, Works Approval W6781/2023/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Decision Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

2.2 Application summary and overview of Premises

On 3/02/2023, Alltrack 2 WA Pty Ltd (the applicant) submitted an application for a works approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act).

The application is to undertake construction works relating to crushing and screening activities at Lot 1 Wannamal Road West, Boonanarring (the Premises). The Premises is approximately 20 km north of Gingin.

The Premises relates to the category and assessed production capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in Works Approval W6781/2023/1. The infrastructure and equipment relating to the premises category and any associated activities which the department has considered in line with *Guideline: Risk assessments* (DWER 2017) are outlined in Works Approval W6783/2023/1.

The applicant is planning on developing and operating a gravel quarry. Operations will involve the processing of material extracted from the ground within a mobile crushing and screening plant. The estimated throughput of the plant is expected to be approximately 86,000 tonnes per year and operations will continue for up to 15 years.

The process will involve a wheeled loader which will take the excavated material from the ROM pad and deliver it into a mobile crusher. The crushed material will then either be stockpiled adjacent to the plant or loaded directly into trucks for transportation from site in loads of approximately 60 tonnes.

Crushing and screening operating hours will be limited to 7am – 5pm Monday to Friday, 7am to 12pm Saturday and no operations on Sunday or public holidays. The key infrastructure proposed for the crushing and screening operations are as follows:

- 1 x McCloskey i44R mobile impact crushing plant (or similar) consisting of;
 - Primary feed hopper;
 - Conveyors;
 - Screenbox; and
 - Stackers,
- 1x D10 tracked bulldozer;
- 1x 30-tonne excavator;
- 1x 966/972 Front-end wheel loader; and
- 1x grader.

Mobile plant machinery and vehicles will be re-fuelled onsite via a re-fuelling trailer, with fuel to be stored off-site. Servicing and maintenance of machinery will be performed off-site.

3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2017).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

3.1 Source-pathways and receptors

3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises construction and operation which have been considered in this Decision Report are detailed in Table 1 below. Table 1 also details the proposed control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 1: Proposed applicant controls

| Emission | Sources | Potential pathways | Proposed controls |
|--|--|-----------------------|--|
| Construction | | | |
| Dust | Vehicle movements, lift-off from stockpiles and/or stored product, earthworks etc. | Air/windborne pathway | Dust suppression cart as required, with water supplied from offsite; and No topsoil stripping will occur when wind speed is greater than 20 km/hour. |
| Noise | Vehicle movements, earthworks etc. | Air/windborne pathway | Daytime operations only; and Standard noise control measures fitted to plant machinery. |
| Operation (including time-limited operations) | | | |
| Dust | Crushing of material, vehicle movements, lift-off from stockpiles and/or stored product, earthworks etc. | Air/windborne pathway | Dust suppression cart as required; No screening or loading will occur during high winds (> 40km/hr); Water sprays on crushing and screening plant, with water supplied from offsite; and Regular visual inspection of operations to ensure low dust emissions and working water sprays. |
| Noise | Crushing and screening of material | Air/windborne pathway | Daytime operations only; and Standard noise control measures fitted to plant machinery. |
| Potentially contaminated stormwater (sediment) | Runoff from stockpiles | Waterborne pathway | Soil profile is porous so little runoff is expected. Crushing circuit will be in an elevated position reducing the potential for stormwater runoff to |

| Emission | Sources | Potential pathways | Proposed controls |
|-------------|-----------------------------|--------------------------|--|
| laden) | | | become contaminated. |
| Hydrocarbon | Spills/leaks from machinery | Direct discharge to land | No storage of hydrocarbons on-site, refuelling done via a re-fuelling trailer stored off-site; A bund tray will be fitted to the base of the crusher plant to capture any potential leaks/spills; and Hydrocarbon spill kit will be on-site to promptly clean up any discharges. |

3.1.2 Receptors

In accordance with the *Guideline: Risk assessment* (DWER 2017), the Delegated Officer has excluded employees, visitors and contractors of the applicant's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies and is provided for under other state legislation.

Table 2 and Figure 1 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2016)).

Table 2: Sensitive human and environmental receptors and distance from prescribed activity

| Human receptors | Distance from prescribed activity |
|---|--|
| Residential Premises | 970 west of the premises 1 km east of the premises |
| Wannamal Townsite | 18 km east of the premises |
| Environmental receptors | Distance from prescribed activity |
| Swan Coastal Plains woodland | 900m south of premises |
| Environmentally Sensitive Area (ESA) | 1.15 km north-east of the premises |
| Groundwater | > 25 metres below ground level |
| Threatened Ecological Communities (TEC) | 900m south-east of the premises |
| Threatened and/or Priority fauna | Black Cockatoo habitat with evidence of use by Carnaby's Black Cockatoo is present on the proposed development site. |
| Threatened and/or Priority flora | Two Priority flora species were recorded in the proposed development site: • <i>Lasiopetalum venustum</i> (P3) • <i>Synaphea grandis</i> (P4). |
| Aboriginal and other heritage sites | 1.5 km west of the premises |
| Surface water bodies | 1.05 km east north-east (resource enhancement |

| | |
|--|--|
| | wetland) 1.2 km northeast (conservation category wetland) |
|--|--|

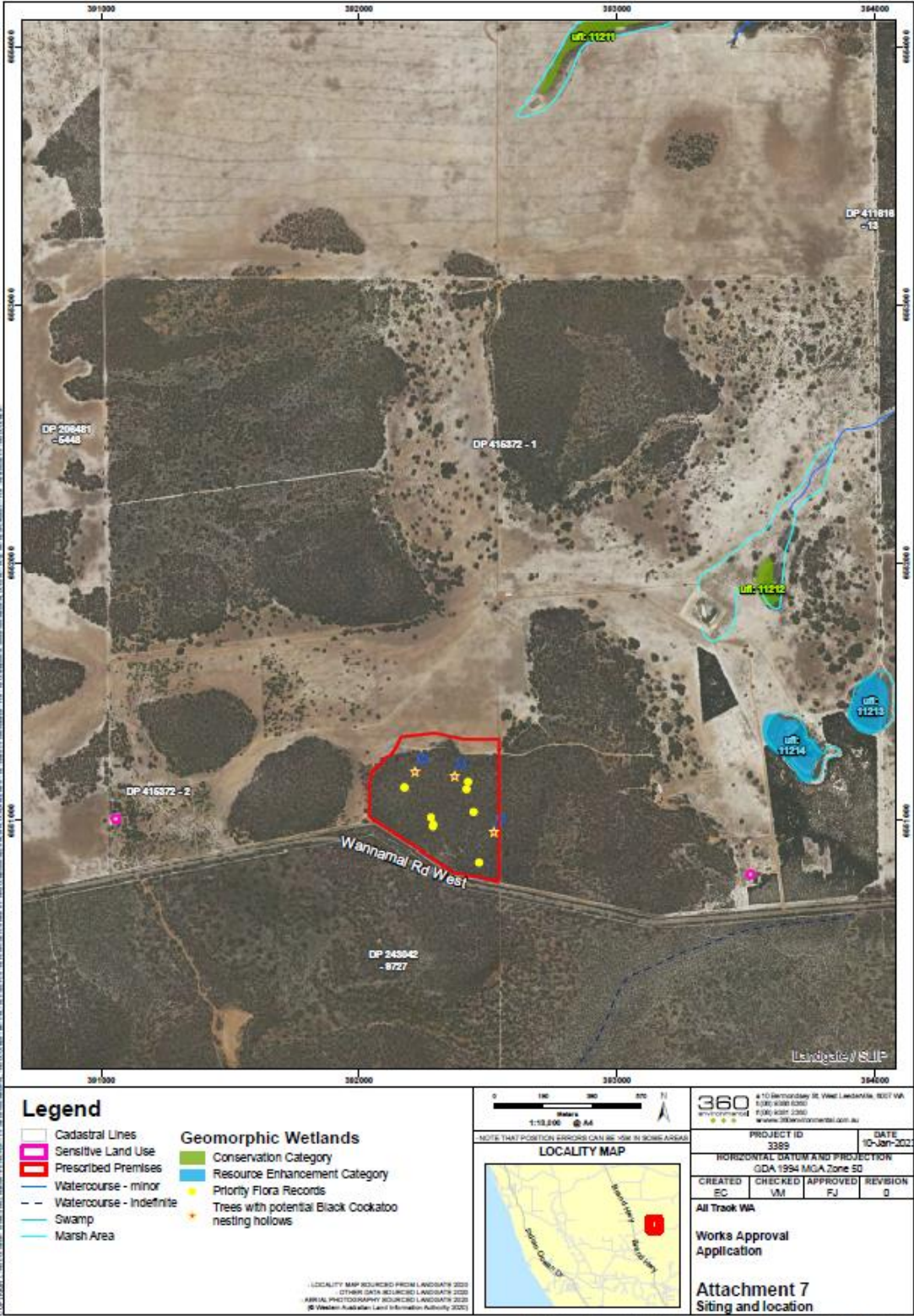


Figure 1: Distance to sensitive receptors

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk assessments* (DWER 2017) for each identified emission source and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the applicant has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the applicant's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the works approval as regulatory controls.

Additional regulatory controls may be imposed where the applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

Works Approval W6781/2023/1 that accompanies this Decision Report authorises construction and time-limited operations. The conditions in the issued Works Approval, as outlined in Table 3 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence is required following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the Premises i.e. crushing and screening activities. A risk assessment for the operational phase has been included in this Decision Report, however licence conditions will not be finalised until the department assesses the licence application.

Table 3: Risk assessment of potential emissions and discharges from the Premises during construction and operation

| Risk Event | | | | | Risk rating ¹ | Applicant controls sufficient? | Conditions ² of works approval | Justification for additional regulatory controls |
|---|--------------------|---|---|----------------------|--|--------------------------------|---|---|
| Source/Activities | Potential emission | Potential pathways and impact | Receptors | Applicant controls | C = consequence L = likelihood | | | |
| Construction | | | | | | | | |
| Placement of screen and associated equipment including vehicle movements (reversing beepers). | Dust | Air/windborne pathway causing impacts to health and amenity | Residences 970 west and 1 km east of the premises | Refer to Section 3.1 | C = Slight L = Unlikely Low Risk | Y | N/A | N/A |
| | Noise | | | Refer to Section 3.1 | C = Slight L = Unlikely Low Risk | Y | N/A | N/A |
| Operation (including time-limited-operations operations) | | | | | | | | |
| Screening, crushing, unloading, loading and storage of material Vehicle movements | Dust | Air/windborne pathway causing impacts to health and amenity | Residences 970 west and 1 km east of the premises | Refer to Section 3.1 | C = Minor L = Unlikely Medium Risk | Y | Condition 1 – water sprays installed on plant. Condition 4 – operating requirements, | N/A |
| | Noise | Air/windborne pathway causing impacts to health and amenity | Residences 970 west and 1 km east of the premises | Refer to Section 3.1 | C = Moderate L = Unlikely Medium Risk | N | <u>Condition 4- operating requirements – daytime operations</u> | Little information has been provided within the application regarding expected noise emissions and how the application will comply with the <i>Environmental Protection (Noise) Regulations 1997 (noise regulations)</i> . The nearest sensitive receptor is located approximately 970m from the stage 1 plant location. The distance to this receptor means that it is unlikely that noise emissions from the plant will impact on the amenity of the receptor, However, the applicant has stated in their application that the crushing and screening plant will operate during daytime hours only – 6am to 5pm Monday to Saturday and will comply with the noise regulations. The noise regulations deem 6am-7am to be |

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| Risk Event | | | | | Risk rating ¹ C = consequence L = likelihood | Applicant controls sufficient? | Conditions ² of works approval | Justification for additional regulatory controls |
|-------------------|---------------------------|--|--|----------------------|---|--------------------------------|---|--|
| Source/Activities | Potential emission | Potential pathways and impact | Receptors | Applicant controls | | | | |
| | | | | | | | | 'nighttime' hours and more stringent assigned noise levels apply. To reduce the risk of amenity impacts from operating the plant during nighttime hours the Delegated Officer has determined it necessary to restrict the operating time of the plant to daytime hours only- 7am to 5pm Monday to Friday. |
| | Sediment-laden stormwater | Overland runoff potentially causing ecosystem disturbance or impacting surface water quality | 1.05 km east north-east (resource enhancement wetland) 1.2 km northeast (conservation category wetland) | Refer to Section 3.1 | C = Minor L = Rare Low Risk | Y | N/A | This emission is adequately managed by the general provisions of the EP Act and the <i>Environmental Protection (Unauthorized discharge) Regulations 2004</i> . |
| | Hydrocarbons | Direct discharge to land from spills and leaks. | Soil Vegetation | Refer to Section 3.1 | C = Minor L = Rare Low Risk | Y | N/A | This emission is adequately managed by the general provisions of the EP Act and the <i>Environmental Protection (Unauthorized discharge) Regulations 2004</i> . |

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2017).

Note 2: Proposed applicant controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

4. Consultation

Table 4 provides a summary of the consultation undertaken by the department.

Table 4: Consultation

| Consultation method | Comments received | Department response |
|--|---|---------------------|
| Application advertised on the department's website (6/03/2023) | None received. | N/A |
| Stakeholder letter sent 4/4/2023 to resident at Lot 2 Wannamal Rd, Boonanarring (closest receptor) advising them of the proposal | None received. | N/A |
| Shire of Gingin advised of proposal (4/04/2023) | The Shire of Gingin responded on 14/04/2023 stating they had no comments about the proposal and that development approval was given to the Applicant in October 2022. | Noted. |
| Applicant was provided with draft documents on 12/05/2023 | The Applicant replied on 6 June 2023 with no comments. | Noted. |

5. Conclusion

Based on the assessment in this Decision Report, the Delegated Officer has determined that a works approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2016, *Guideline: Environmental siting*, Joondalup, Western Australia.
3. DWER 2017, *Guideline: Risk assessments*, Joondalup, Western Australia.
4. 360 Environmental Pty Ltd, *Works Approval Supporting Document*, February 2023, Subiaco, WA.

Appendix 2: Application validation summary

| SECTION 1: APPLICATION SUMMARY | | |
|--|---|---|
| Application type | | |
| Works approval | <input checked="" type="checkbox"/> | |
| Date application received | 3/02/2023 | |
| Applicant and Premises details | | |
| Applicant name/s (full legal name/s) | Alltrack 2 WA Pty Ltd | |
| Premises name | | |
| Premises location | Lot 1 on Deposited Plan 415372 | |
| Local Government Authority | Shire of Gingin | |
| Application documents | | |
| HPCM file reference number: | DER2023/000098 | |
| Key application documents (additional to application form): | Application form (A2154525) Supporting document (A2154526) | |
| Scope of application/assessment | | |
| Summary of proposed activities or changes to existing operations. | Construction of crushing and screening operation. | |
| Category number/s (activities that cause the premises to become prescribed premises) | | |
| Table 1: Prescribed premises categories | | |
| Prescribed premises category and description | Proposed production or design capacity | |
| Category 12: Screening etc. of material | 86,000 tonnes per annual period | |
| Legislative context and other approvals | | |
| Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/> |
| Does the applicant hold any existing Part IV Ministerial Statements relevant to the application? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Ministerial statement No: EPA Report No: |
| Has the proposal been referred and/or assessed under the EPBC Act? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Reference No: Pending |

| | | |
|--|--|--|
| Has the applicant demonstrated occupancy (proof of occupier status)? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Certificate of title <input checked="" type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input type="checkbox"/> Expiry: |
| Has the applicant obtained all relevant planning approvals? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Approval: Vol.2958 Folio.550 Expiry date: If N/A explain why? |
| Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | CPS No: |
| Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Application reference No: N/A Licence/permit No: N/A No clearing is proposed. |
| Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Application reference No: Licence/permit No: Licence / permit not required. |
| Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Name: N/A Type: Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Regional office: |
| Is the Premises situated in a Public Drinking Water Source Area (PDWSA)? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Name: N/A Priority: N/A Are the proposed activities/landuse compatible with the PDWSA (refer to WQPN 25)? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004</i> , <i>Environmental Protection (Controlled Waste) Regulations 2004</i> , <i>State Agreement Act xxxx</i>) | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| Is the Premises within an Environmental Protection Policy | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |

| | | |
|---|---|--|
| (EPP) Area? | | |
| Is the Premises subject to any EPP requirements? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Classification: N/A Date of classification: N/A |