VANTAGE
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ALBION PARK RAIL BYPASS
STAGE 2: PRINCES MOTORWAY BETWEEN YALLAH AND OAK FLATS

ENVIRONMENTAL REPRESENTATIVE'S MONTHLY REPORT – NOVEMBER 2019

Date of Issue: 10 December 2019
Job Reference: AL17-274-2

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Environmental Representative: [redacted]
Toby Hobbs – Principal

Report No.: AL17-274 ER November 2019 Report

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GLOSSARY OF TERMS AND ABBREVIATIONS

Term	Definition
APRb	Albion Park Rail bypass
CAR	Corrective Action Request
CCS	Community Communication Strategy
CEMP	Construction environmental management plan
CoA	The Planning Minister's conditions of approval
CRSC	Croom Regional Sporting Complex
CRM	Community Relations Manager
dB(A)	Decibel: unit of sound pressure level
DP&E	Department of Planning and Environment (superceded by DPIE in July 2019)
DPI	Department of Primary Industries
DPIE	Department of Planning, Industry and Environment (formerly DP&E)
EIR	Environmental Inspection Report
EIS	Environmental Impact Statement
ER	Independent Environmental Representative nominated by Roads and Maritime and approved by DP&E (DPIE as of July 2019)
EMS	Environmental management system
EPA	NSW Environment Protection Authority
EPL	Environment Protection Licence
ENMM	*Environmental Noise Management Manual* (RTA 2001)
EP&A Act	*Environmental Planning and Assessment Act 1979*
EPBC Act	Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*
ESCP	Erosion and Sedimentation Control Plan
ESM	Environment and Sustainability Manager
EWMS	Environmental Work Method Statement
NOW	NSW Office Of Water
OEH	Office of Environment & Heritage
OEMP	Operational environmental management plan
OOHW	Our of hours works
PESCP	Progressive erosion and sediment control plan
POEO Act	*Protection of the Environment Operations Act 1997*

Term	Definition
(the) Project	Albion Park Rail bypass Stage 2 (Princes Motorway between Yallah and Oak Flats)
Roads and Maritime	Roads and Maritime Services
Secretary	Secretary of DP&E (DPIE as of July 2019)
Stage 1	Stage 1 of the Albion Park Rail bypass (Croom Regional Sporting Complex Reconfiguration)
Stage 2	Stage 2 of the Albion Park Rail bypass (Princes Motorway between Yallah and Oak Flats)
Stage 3	Stage 3 of the Albion Park Rail bypass (Yallah Interchange)
SPIR	Submissions and preferred infrastructure report
SSI	State Significant Infrastructure
UDLCS	Urban Design and Landscape Character Strategy

1 INTRODUCTION

This document presents the Environmental Representative's (ER) monthly report for 01 – 30 November 2019 for the works associated with Albion Park Rail bypass (APRb) Stage 2 (Princes Motorway between Yallah and Oak Flats), herein referred to as the "Project".

The Albion Park Rail bypass will provide a 9.8 kilometre extension of the Princes Motorway between Yallah and Oak Flats and key design features include:

- Two lanes in each direction divided by a median;
- Three interchanges provided at Yallah, Albion Park and Oak Flats connecting the local road network with the motorway;
- Bridges to carry the motorway over Duck Creek, Macquarie Rivulet, Frazers Creek, the Princes Highway, Tongarra Road and the South Coast Rail Line;
- Bridges to carry local roads and ramps over the motorway;
- Bridges to provide improved floodwater conveyance and flood immunity;
- Local road changes or upgrades, including Yallah Road between Larkins Lane and Princes Highway at Yallah, replacing the existing East West Link with the motorway and a new local service road which runs parallel to the motorway on the southern side, connecting the Oaks Flats interchange with Croome;
- Improved pedestrian and cycle connections; and
- Replacement of directly impacted sporting facilities at the Croom Regional Sporting Complex (CRSC), including sporting fields and associated amenities and changes to the southern access of the sporting complex.

Minister's Conditions of Approval (MCoA) were issued by the Minister for Planning, NSW Department of Planning and Environment (DP&E) under Section 115ZB of the *Environmental Planning and Assessment Act 1979* on 30 January 2018. A modification (MOD 1) was approved by DP&E (now the NSW Department of Planning, Industry and Environment [DPIE]) on 25 October 2018 which incorporated a definition of "Heavy vehicle" and replacement of Conditions E51 (Building and Condition Structure Surveys) and E75 (Road Dilapidation Reports).

In accordance with the Project Approval, the Albion Park Rail bypass Project will be delivered in the following three stages:

- Stage 1: Croom Regional Sporting Complex (CRSC) reconfiguration;
- Stage 2: Princes Motorway between Yallah and Oak Flats; and
- Stage 3: Yallah Interchange.

The key features of Stage 2 of the Project, and the subject of this report, include:

- A 9.8 kilometre extension of the Princes Motorway between Yallah and Oak Flats bypassing Albion Park Rail;
- A central interchange at Albion Park;
- A southern interchange at Oak Flats;
- 13 new bridges;

- Pedestrian and cyclist facilities to improve connectivity; and
- Local road upgrades on Tongarra Road and Yallah Road.

Stage 2 construction works commenced on 07 January 2019 following DP&E's (now DPIE) approval of the Construction Environmental Management Plan (CEMP), inclusive of sub-plans, and the fulfillment of other pre-construction requirements.

Required Environmental Representative (ER) services are listed under the Minister for Planning's Conditions of Approval applicable to the Project. In particular, Condition A22 provides for the appointment of the ER to be approved by the Secretary to provide a range of services related to management issues concerning the environmental performance of the Project.

Mr Toby Hobbs of Vantage Environmental Pty Ltd (Vantage) was appointed by Roads and Maritime Services (Roads and Maritime) as the Project ER and endorsed for this role by the Department of Planning and Environment on 08 February 2018. Mr Hobbs is an environmental scientist with approximately 20 years of experience and is accredited as a Principal Environmental Auditor by Global Exemplar.

2 SUMMARY OF SIGNIFICANT WORKS

During the current reporting period, the following site-based activities occurred:

- Bulk earthworks including development of cuts and placement of fill materials;
- Paving, fencing and installation of road furniture for the new East-West Link road as well as opening of a 1km section of this road on 07 November 2019;
- Piling and bridge works (see Figure 1, below);
- Installation of key drainage features including box and pipe-culverts;
- Stabilisation and re-vegetation of the Green Meadows detention basin;
- Management of the Frazers Creek diversion;
- Maintenance and installation of environmental controls including sediment basins, clean-water diversion drains and stabilised site access points;
- Remedial works to manage potentially contaminated materials;
- Installation of at-house noise mitigation measures;
- Community liaison; and
- Utility adjustments.

Figure 1: View of the installation of the first bridge girder on 25 November 2019 at the site of Bridge No. 11 spanning the realigned Frazers Creek

3 STATUS OF ENVIRONMENTAL DOCUMENT REVIEW

The date of issue of ER endorsement on the Construction Environmental Management Plan (CEMP) and sub-plans associated with Stage 2 of the Project works is shown on Table 3.1, below. Initial approval of the noted plans was provided by DP&E (now DPIE) between 07 and 21 December 2018.

TABLE 3.1: Summary of ER's Endorsement of CEMP and sub-plans

Plan Name and Details	Date of Issue of ERs Endorsement	Date of DP&E (now DPIE) Approval
Waste and Energy Management (Appendix B7), Rev. 4, 12 October 2018	12 October 2018	N/A: Provided to DP&E (now DPIE) for information only
Contaminated Land Management Sub-plan (Appendix B9), Rev. 4, 12 October 2018	12 October 2018	N/A: Provided to DP&E (now DPIE) for information only
Flora and Fauna Management Sub-plan (Appendix B2), Rev. 10, 14 December 2018	14 December 2018	07 December 2018*
Noise and Vibration Sub-plan (Appendix B3), Rev. 6, 12 November 2018 inclusive of Construction Noise and Vibration Monitoring Program	23 August 2019	07 December 2018

Plan Name and Details	Date of Issue of ERs Endorsement	Date of DP&E (now DPIE) Approval
Construction Environmental Management Plan, Albion Park Rail bypass (Stage 2 – Princes Motorway between Yallah and Oak Flats), Rev. 9, 04 December 2018	23 August 2019	07 December 2018
Soil and Water Management Sub-plan (Appendix B4), Rev. 8, 03 December 2018 inclusive of Construction Groundwater Monitoring Program and Construction Surface Water Monitoring Program	05 December 2018	07 December 2018
Air Quality Management Sub-plan (Appendix B6), Rev. 7, 05 December 2018 inclusive of Construction Air Quality Monitoring Program (Approval of the monitoring program requirements only)	05 December 2018	07 December 2018
Heritage Management Sub-plan (Appendix B5), Rev. 8, 05 December 2018	05 December 2018	29 November 2018*
Traffic and Transport Management Sub-plan (Appendix B1), Rev. 9, 13 November 2018	10 December 2018	29 November 2018*
Flooding and Hydrology Management Sub-plan (Appendix B8), Rev. 12, 21 June 2019	21 June 2019	21 December 2018 (approved for first 6 months of construction then update required)
Ancillary Facilities Management Plan, Rev. 8, 26 July 2019	29 July 2019	02 August 2019

*DP&E (now DPIE) approval was subject to further updates which was subsequently addressed

4 EVALUATION OF CONSTRUCTION ACTIVITIES

4.1 Site Monitoring

The ER completed one (1) site visit to view the Project works on 19 November 2019. The site visit involved an inspection of on-site works as well as an assessment of general compliance with associated Project Approval conditions.

A copy of the Environmental Inspection Report (EIR) that was used to record site observations is presented as Appendix A. The EIR contains an on-site checklist developed by Roads and Maritime that allow for the systematic recording of on-site environmental issues, observations of concerns and/or potential non-conformities.

The personnel who attended the site visits are listed below.

Date of Site Visit	Personnel Present
19 November 2019	Peter Chudleigh (RMS), Shannon Chisholm (FH), James Diamond (FH) and Toby Hobbs (Vantage).

It is noted that a site tour was also conducted with Project and government agency representatives as part of the fourth Environmental Review Group (ERG) meeting which was held on 05 November 2019, however an inspection report was not generated following that site visit.

Key items discussed and viewed during the site visit of November 2019 included:

- Dust control at the site of the northern and southern rock-cut and excavation areas (Cut 1 and Cut 5);
- Stockpile and batter stabilisation;
- Implementation of the Project Aviation Management Plan including identification and protection of Obstacle Limitation Surfaces (OLS);
- Management of heritage items;
- General housekeeping and waste management;
- Management of site access gates to control dust and/or mud-tracking;
- Protection of waterways and clean-water drainage lines;
- Maintenance of exclusion zone fencing and signage;
- Maintenance of erosion/sedimentation controls;
- Installation of at-house noise mitigation measures; and
- Community consultation and complaints handling.

4.2 Independent Auditing

In accordance with Infrastructure approval conditions A33 to A37 and the approved CEMP, independent environmental auditing for the Project will be undertaken in accordance with *ISO 19011:2014 - Guidelines for Quality and/or Environmental Management Systems Auditing*. The first audit, covering the initial period of construction, was undertaken on 14 and 15 November 2019 which is consistent with the requirement of condition A36 to conduct the first audit within 12 months of commencing works. The audit was conducted by a team of appropriately qualified and experienced auditors from SNC Lavalin and covered the following scope:

- Assessment of the environmental performance of the SSI, and its effects on the surrounding environment;
- Assessment of whether the Project is complying with the terms of the Infrastructure approval;
- Review of the adequacy of any document required under the Infrastructure approval; and
- Provision of recommended measures or actions to improve the environmental performance of the SSI, and improvements to any document required under the Infrastructure approval.

It is anticipated that the audit report will be issued to DPIE prior to the end of December 2019.

4.3 Site Issues

A generally high standard of environmental management associated with construction activities was noted during November 2019 with works deemed to be generally consistent with management plan commitments as well as EPL and Infrastructure approval conditions. In particular, the standard of house-keeping was noted to be high with wastes well managed and areas that could be subject to inundation kept free of debris.

A total of 14.8mm of rainfall was recorded at the Albion Park (Wollongong Airport) Bureau of Meteorology weather station during November 2019, which is significantly less than the average reported rainfall for November of 83.5mm for the same weather station.

Due to the on-going dry and windy conditions, management of air quality was a focus for the Project team. Up to 11 watercarts were in use during the reporting period to aid in the suppression of dust. Extensive quantities of soil-binder (non-hazardous polymer-based) were also used in conjunction with progressive hydro-seeding to aid in stabilising areas that were prone to erosion. In addition, upgraded dust extraction and water misting systems were retro-fitted to the two (2) existing surface miners and a third surface miner with a heavy duty dust extraction system was deployed on a trial basis at Cut 5 near the Oak Flats interchange as part of the Project team's commitment to proactive management of air quality.

Regional conditions associated with bush fires and dust storms impacted air quality across the wider Sydney basin and Illawarra area during November and, as such, exceedances of particulate monitoring criteria were frequently observed at the Project's two (2) monitoring stations during the reporting period.

Following the site visit of 19 November 2019, the Environmental Inspection Report status of the site was reported as "green" because environmental controls in those areas of the site that were reviewed were deemed to be appropriate and consistent with regulatory and Project approval requirements.

There were no (0) non-conformities or reportable incidents identified with respect to the Infrastructure approval and Environment Protection Licence (EPL) requirements during November 2019.

4.4 Community Consultation and Complaints Register

To assess the outcome of the Project community consultation and complaints registration process, the ER held periodic discussions with Roads and Maritime and Fulton Hogan personnel and completed review of the content of the Project complaints register system, known as "Consultation Manager", which is in use during construction of the Project. The system is used to record and manage issues related to community consultation and feedback, inclusive of complaints related to the environmental performance during construction works. The system has been designed to log standardised details of any complaints associated with the Project with a rapid response mechanism to provide further information to potential complainants.

There were four (4) complaints received by the Project community liaison team during the current reporting period that related to environmental management matters during standard working hours. All four (4) complaints related to dust impacts; three (3) complaints were at residences and one (1) complaint was at a business. Fulton Hogan personnel attended each site to confirm mitigation measures were in place and additional mitigation measures were discussed.

Based on the information received from Roads and Maritime and Fulton Hogan, it is considered that the above noted complaints were managed appropriately and that OOHW were conducted in accordance with the Infrastructure approval and Environmental Protection Licence during the current reporting period.

On-going consultation with stakeholder groups, agency representatives and residents within the area of the Project corridor regarding upcoming works were also completed by Roads and Maritime and Fulton Hogan during the current reporting period. This correspondence was noted within the Consultation Manager database. The most recent community information session was held on 23 September 2019 at the Centenary Hall in Albion Park to provide residents and stakeholders with an update on Project progress, an opportunity to meet the Project team and ask any relevant questions.

Web-based Project information is available at the following web address:

https://www.rms.nsw.gov.au/projects/albion-park-rail-bypass/index.html

The most recent Project update for the public was released in September 2019 and can be viewed at:

https://www.rms.nsw.gov.au/projects/01documents/albion-park-rail-bypass/albion-park-rail-bypass-project-update-2019-09.pdf

In addition, information regarding traffic changes on East West Link was released in October 2019 and can be viewed at:

https://www.rms.nsw.gov.au/projects/01documents/albion-park-rail-bypass/aprb-project-notification-oct-2019.pdf

4.5 Implementation, Effectiveness and Level of Compliance with Project CEMP and Approval Conditions

Based on the ER's review, site visits and consultation undertaken in November 2019, it is apparent that site works and management practices were generally consistent with CEMP commitments and approval conditions associated with the Project during the reporting period.

There were no (0) reportable environmental incidents, as defined in accordance with Infrastructure approval condition A38, during the current reporting period.

The first Construction Compliance Report, which covered the first six (6) months of construction from 07 January 2019 until 07 July 2019, was endorsed by the ER on 24 October 2019 prior to issue to DPIE.

4.5.1 Aviation Management Plan

During the current reporting period discussions were held between Fulton Hogan, Shellharbour City Council and Shellharbour Airport personnel regarding logistics and management procedures associated with the annual Illawarra Convoy community event which was held on 17 November 2019 at the Shellharbour Airport. An application was also submitted to the Civil Aviation Safety Authority (CASA) Air Navigation, Airspace and Aerodromes Branch to seek approval for proposed crane operations at Yallah in December 2019 which would temporarily penetrate airport Approach and Obstacle Limitation Surfaces.

4.6 Review of Corrective/Preventative Measures

There are currently no (0) ER-issued Corrective Action Requests (CARs) outstanding on the Project.

4.7 Requested Changes to Project CEMP

One (1) change to the Construction Environmental Management Plan (CEMP) Air Quality Management Plan (AQMP) has been currently requested by the Project team. The change relates to criteria and reporting associated with 2.5µm particulate monitoring ($PM_{2.5}$). The AQMP will be resubmitted to the Secretary of DPIE for approval of the proposed change.

5 SITE INDUCTION PROCESS

The ER conducted a detailed review of the content of the site induction for the Project works during July 2019. Based on the review it was deemed that the induction content placed an adequate emphasis on environmental management priorities and requirements for the Project.

The next induction review will be undertaken during January 2020.

6 MEETINGS

6.1 Environmental Review Group

The fourth Environmental Review Group (ERG) meeting for the Project (ERG Meeting No. 4) was held on 05 November 2019. The meeting involved a round table discussion with attending ERG Members as well as representatives of the Roads and Maritime and Fulton Hogan management, construction and environment teams. A site visit was also conducted.

The following personnel were present at the meeting:

- Peter Hawkins, Roads and Maritime Services;
- Peter Chudleigh, Roads and Maritime Services;
- Matthew Saviana, Fulton Hogan;
- Sam Leigh, Fulton Hogan;
- Shannon Chisholm, Fulton Hogan;
- James Diamond, Fulton Hogan;
- Nathan Russell, Fulton Hogan;
- Jacob Cooper, Fulton Hogan;
- Tom Dewhurst, Fulton Hogan;
- Joanne Glass (part, via phone), DPIE
- William Dove, Environment Protection Authority;
- Chris Kelly, Environment Protection Authority;
- Kym McNamara, OEH: Heritage;
- Jillian Reynolds, DPI: Fisheries;
- Kyle Stevens, Shellharbour City Council;
- Adam De Clouett, Shellharbour City Council;
- Rosemary Crowhurst, Shellharbour City Council;
- Toby Hobbs, Vantage Environmental Management.

The ERG meeting was well attended and covered a range of topics associated with the Project and included a site visit to key Project areas. In general, all attendees provided positive feedback regarding the planning of works, proposed environmental management strategies and stakeholder consultation.

Meeting notes are presented within Appendix C of this report. The next ERG meeting is scheduled to be held on 11 February 2020.

7 DOCUMENTATION ISSUED BY THE ER

7.1 Corrective Action Requests

No ER-issued Corrective Action Requests (CARs) were raised during the current reporting period.

7.2 Certifications and Endorsements

The first Construction Compliance Report, which covered the first six (6) months of construction from 07 January 2019 until 07 July 2019, was endorsed by the ER on 24 October 2019 prior to issue to DPIE.

A summary of ER Certifications, Approvals and Consistency Reviews associated with the Project that have been issued is provided within Appendix B of this report.

7.3 Directions/Advice/Requests

During the current reporting period, the ER provided written and verbal correspondence to Fulton Hogan and Roads and Maritime personnel regarding environmental management strategies associated with the Project.

8 ADDITIONAL SERVICES DIRECTED BY ROADS AND MARITIME SERVICES

There were no additional services directed during the current reporting period.

9 DOCUMENTATION RECEIVED FROM ROADS AND MARITIME SERVICES AND OTHER PARTIES

During the current reporting period, the ER received correspondence from Roads and Maritime and Fulton Hogan relating to the following:

- Construction monitoring program results;
- Compliance management inclusive of any required incident and/or statutory reporting obligations;
- Information associated with the close-out of issues identified during routine site visits as documented on the Environmental Inspection Reports (EIR);
- Community consultation and complaints handling information;
- Updates to post-approvals documentation and monitoring data associated with approved management plans and strategies; and
- Information related to on-going construction works and upcoming works associated with the broader Project area.

10 CLOSING COMMENTS

Based on the site visits completed during November 2019, review of Project documentation and discussions with Project personnel, the ER considers the current Project works were deemed to be generally consistent with Infrastructure approval conditions and environmental management commitments.

A high standard of environmental management associated with construction activities was observed during the reporting period. In particular, the standard of house-keeping was noted to be high with wastes well managed and areas that could be subject to inundation kept free of debris.

Due to the on-going dry and windy conditions, management of air quality was a focus for the Project team. Up to 11 watercarts were in use during the reporting period to aid in the suppression of dust. Extensive quantities of soil-binder (non-hazardous polymer-based) were also used in conjunction with progressive hydro-seeding to aid in stabilising areas that were prone to erosion. In addition, upgraded dust extraction and water misting systems were retro-fitted to the two (2) existing surface miners and a third surface miner with a heavy duty dust extraction system was deployed on a trial basis at Cut 5 near the Oak Flats interchange as part of the Project team's commitment to proactive management of air quality.

Regional conditions associated with bush fires and dust storms impacted air quality across the wider Sydney basin and Illawarra area during November and, as such, exceedances of particulate monitoring criteria were frequently observed at the Project's two (2) monitoring stations during the reporting period.

Notwithstanding the above adverse conditions, on-going proactive management of potential dust emissions from the site at locations such as Cut 1 and Cut 5 will be required to ensure construction-based environmental impacts are minimised.

11 LIMITATIONS

This report has been prepared in accordance with NSW Department of Planning, Industry and Environment requirements and guidelines. While all reasonable attempts have been made to ensure the accuracy of the content of this report, Vantage Environmental Management Pty Ltd excludes implied warranties and conditions to the extent legally permissible.

The information and assumptions presented within this report, inclusive of evaluation of construction activities and compliance, are based on viewed site conditions and information provided by NSW Roads and Maritime Services, their contractors and consultants as well as other stakeholders. Liability arising from any of the assumptions being incorrect is disclaimed and no responsibility will be taken for any damage or loss that may occur through either the use or reliance of the content of this document for purposes other than for which it was prepared.

This report should be considered in its entirety and not relied on, released to, or duplicated by third parties in whole or in part without the permission of NSW Roads and Maritime Services, the NSW Department of Planning, Industry and Environment and Vantage Environmental Management Pty Ltd.

Appendix A

Environmental Inspection Report:

19 November 2019

ENVIRONMENTAL INSPECTION REPORT[1]

VANTAGE ENVIRONMENTAL MANAGEMENT

PROJECT: Albion Park Rail bypass (Stage 2 -Yallah to Oak Flats) **WORKS UNDERTAKEN BY:** Contractor – Fulton Hogan (FH)	**DATE OF INSPECTION:** 19 November 2019 **ATTENDEES:** Peter Chudleigh (RMS), Shannon Chisholm (FH), James Diamond (FH) and Toby Hobbs (Vantage).	**WEATHER CONDITIONS:** Clear and windy, 33°C **PROJECT IDENTIFIED AS HIGH RISK FOR ESC:** Yes	**STATUS:** Green

NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
1	Bowles Meadow property	Clearing and site management works in progress. Considerable effort has been made to minimise impacts at this location. Archaeological assessment has been completed prior to works commencing. 	GEN-POS	N/A	Noted	

ENVIRONMENTAL INSPECTION REPORT[1]

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NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
2	Fill 9	Perimeter er/sed controls in place although some stockpiled fill (unsuitable) requires management. Active dust suppression in progress. Pipe culvert works progressing well. Some weed management to control castor oil plant will be required on recently topsoiled batters. Stabilisation will also be required as batters are in close proximity to wetland. 	SP-SPU ESC-DAU	Low to medium	Stockpile pulled away from sediment fence and into one stockpile and sealed up using the excavator bucket. 	29/11/2019

ENVIRONMENTAL INSPECTION REPORT[1]

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NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE

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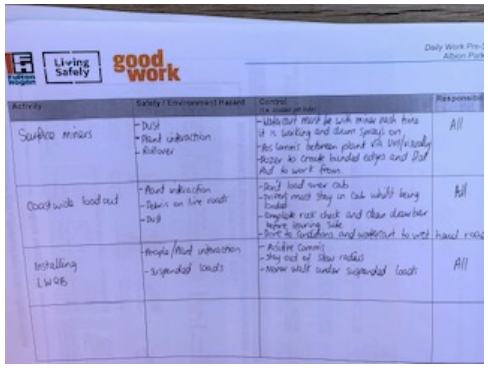
NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
3	Cut 5	Controls in place for construction of splash-crossing. Good cover present in batters surrounding new culvert; some maintenance of sediment fence adjacent to pipe headwall is required. Active dust suppression in progress and additional controls have also been retro-fitted to surface mining equipment to minimise dust emissions.  	ESC-ESNM AIR-POS	Low	Sediment fence placed around headwall. 	29/11/2019

ENVIRONMENTAL INSPECTION REPORT[1]

VANTAGE ENVIRONMENTAL MANAGEMENT

PROJECT: Albion Park Rail bypass (Stage 2 -Yallah to Oak Flats) **WORKS UNDERTAKEN BY:** Contractor – Fulton Hogan (FH)	**DATE OF INSPECTION:** 19 November 2019 **ATTENDEES:** Peter Chudleigh (RMS), Shannon Chisholm (FH), James Diamond (FH) and Toby Hobbs (Vantage).	**WEATHER CONDITIONS:** Clear and windy, 33°C **PROJECT IDENTIFIED AS HIGH RISK FOR ESC:** Yes	**STATUS:** Green

NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE

ENVIRONMENTAL INSPECTION REPORT[1]

VANTAGE ENVIRONMENTAL MANAGEMENT

PROJECT: Albion Park Rail bypass (Stage 2 -Yallah to Oak Flats) **WORKS UNDERTAKEN BY:** Contractor – Fulton Hogan (FH)	**DATE OF INSPECTION:** 19 November 2019 **ATTENDEES:** Peter Chudleigh (RMS), Shannon Chisholm (FH), James Diamond (FH) and Toby Hobbs (Vantage).	**WEATHER CONDITIONS:** Clear and windy, 33°C **PROJECT IDENTIFIED AS HIGH RISK FOR ESC:** Yes	**STATUS:** Green

NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
4	Green Meadows basin	Good vegetation growth at floor of basin evident. Access for neighbouring property has been well maintained with no complaints received. Active dust suppression occurring. 	GEN-POS	N/A	Noted	

ENVIRONMENTAL INSPECTION REPORT[1]

VANTAGE ENVIRONMENTAL MANAGEMENT

PROJECT: Albion Park Rail bypass (Stage 2 -Yallah to Oak Flats) **WORKS UNDERTAKEN BY:** Contractor – Fulton Hogan (FH)	**DATE OF INSPECTION:** 19 November 2019 **ATTENDEES:** Peter Chudleigh (RMS), Shannon Chisholm (FH), James Diamond (FH) and Toby Hobbs (Vantage).	**WEATHER CONDITIONS:** Clear and windy, 33°C **PROJECT IDENTIFIED AS HIGH RISK FOR ESC:** Yes	**STATUS:** Green

NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
5	Grevillea Street / East West link (Croome Road intersection)	Installation of trial HES water quality basin has commenced. Some stabilisation of adjacent disturbed areas required, along with maintenance of perimeter sediment fence. Exclusion zone fencing is in place for retained vegetation. 	ESC-ESNM	Low	Soil binder and seed applied to exposed areas. 	22/11/19

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NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
6	Gate 16 / Frazers Creek	Active dust suppression of haul roads in progress. Works in waterways permitting and detailed planning have been conducted for removal of downstream bund at pipe culvert. Hand work to finalise low-flow channel has been completed below bridge deck. 	GEN-POS	N/A	Noted	

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NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
7	Macquarie Rivulet	Very good housekeeping evident. Spill kits present. Waste streams are well segregated. Marine booms in place. OLS advisories present. Well done! 	GEN-POS WAS-POS	N/A	Noted	

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NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
8	Cut 1	Perimeter controls in place with active dust suppression evident. Please continue to monitor air quality controls and implement required measures as needed due to close proximity of receivers and high potential for nuisance dust generation at this location. 	AIR-USD	Low to medium	Monitoring of air quality ongoing. Commencement of progressive stabilisation underway to reduce exposed footprint.	19/11/2019 21/11/2019

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NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
9	Gate 2	Sweeping of site access in progress. Noise attenuation panels in place for Cavatale property. Batter scours have been repaired and drainage chutes have been completed with shotcrete. 	GEN-POS	N/A	Noted	

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NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
10	Duck Creek	Very good housekeeping evident. Low-flow channel in recently placed rock has been installed. Spill kits are present. Sediment traps are in place. 	GEN-POS	N/A	Noted	

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NO.	LOCATION	ISSUE/COMMENT	CODE	RISK	ACTION (Contractor or RMS)	CLOSE OUT DATE
11	Macquarie Rivulet southern abutment	Required environmental controls are in place including sediment booms and traps, basin, spill kits and signage. Housekeeping is of a high standard. 	GEN-POS	N/A	Noted	

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ENVIRONMENTAL INSPECTION REPORT[1]

VANTAGE ENVIRONMENTAL MANAGEMENT

Issued by: Toby Hobbs Environmental Representative **Phone:** 0420 922 955	**Issued to:** Shannon Chisholm Fulton Hogan **Date:** 19 November 2019	**Copy to:** Peter Hawkins (RMS), Warren Blacka (RMS), Peter Chudleigh (RMS), Steve Lappin (RMS), Mick LeCerf (RMS), David Ledlin (RMS), Matthew Leslie (RMS), James Diamond (Fulton Hogan), Nathan Russell (Fulton Hogan), Jacob Cooper (Fulton Hogan), Mitchell Bryson & Tom Dewhurst (Fulton Hogan).	

LEGEND

RECOMMENDED TIMEFRAMES FOR RISK RATING FOR COMPLETION OF ACTIONS	
URGENT	To be addressed straight away and closed out on the day of inspection
HIGH	Within 24hrs*****
MEDIUM	Within 3 Working Days*****
LOW	Within 5 Working Days*****

***** To be completed sooner if adverse weather conditions predicted

[1] The format of this Environmental Inspection Report is based on the *Roads & Maritime Services Guidance Note: Environmental Inspection Reporting (June 2015)*

ENVIRONMENTAL STATUS	
Red	• actions required to address urgent risk issues. • satisfactory actions not taken for high risk issues identified on the previous inspection. • a Category 1 incident has been identified during the inspection.
Amber	• actions required to address high and/or medium risk issues. • satisfactory actions not taken for previous medium or low risk issues on the previous inspection.
Green	• actions required to address low risk issues that will not directly cause environmental harm. • site demonstrates good environmental management with no action required to avoid environmental harm.

Appendix B

Summary of ER Certifications and Approvals

APRB Stage 2 Infrastructure Approval Reporting Requirements

Plan/Report Title	Date of Issue of ER Review and/or Endorsement	Consistent with Infrastructure Approval Conditions?
Staging Report, Rev. 0, 09 February 2018	15 February 2018	Yes
Compliance Tracking Program, Rev. 0, 09 February 2018	16 February 2018	Yes
Unexpected Heritage Items – Heritage Procedure 02, November 2015	29 June 2018	Yes
Complaints Management System, Rev. 3, 10 September 2018	17 September 2018	Yes
Environmental Audit Program, Rev. 4, 18 September 2018	20 September 2018	Yes
Pre-Construction Compliance Report, Rev. 5, 02 October 2018	02 October 2018	Yes
Sustainability Strategy, Rev. 1, 02 October 2018	08 October 2018	Yes
EWMS 1: Geotechnical Investigation and Services Potholing, Rev. 10a, 29 October 2018	29 October 2018	Yes
Incident and Emergency Response Plan, Rev. 3, 07 November 2018	08 November 2018	Yes
Community Communication Strategy, Rev. 6, 13 November 2018	13 November 2018	Yes
EWMS 3: Site Compound AS06 Establishment, Rev. 2, 16 November 2018	22 November 2018	Yes
EWMS 5: Aboriginal Artefact Salvage Works, Rev. 1, 03 December 2018	04 December 2018	Yes
EWMS 4: Structural Demolition and Asbestos Removal Work, Rev. 1, 05 December 2018	05 December 2018	Yes
Aviation Management Plan (incl. Method of Working Plan), Rev. 5, 17 December 2018	17 December 2018	Yes

Plan/Report Title	Date of Issue of ER Review and/or Endorsement	Consistent with Infrastructure Approval Conditions?
Operational Noise Mitigation Report, Rev. 2, 11 December 2018	23 January 2019	Yes
Urban Design and Landscape Character Strategy, Rev. D, 20 December 2018	04 February 2019	Yes
Flood Mitigation Measures Review (Flooding and Scour Assessment, Rev. 3, 18 December 2018)	04 February 2019	Yes
Division 5.2 and EPBC Act Approval Consistency Assessment Report – Yallah Road Underpass (Rev. 3 May 2019)	03 May 2019	Yes
Division 5.2 and EPBC Act Approval: Minor Consistency Assessment Report – Main Site Compound Pedestrian and Cycle Access Provisions (May 2019)	16 May 2019	Yes
Division 5.2 and EPBC Act Approval: Consistency Assessment Report – Proposed Property Access Roads (June 2019)	07 June 2019	Yes
Division 5.2 and EPBC Act Approval: Consistency Assessment Report – Proposed Extension to Illawara Hwy Shared Path (May 2019)	24 May 2019	Yes
Ancillary Facilities Management Plan, Rev. 8, 29 July 2019	29 July 2019	Yes
Division 5.2 and EPBC Act Approval: Minor Consistency Assessment Report – Tongarra Road Drainage Channel Extension (September 2019)	11 September 2019	Yes
Construction Compliance and Monitoring Report, Report 1 (7 January 2019 – 7 July 2019), Rev. 2, 27 September 2019	27 September 2019	Yes
Construction Compliance and Monitoring Report, Report 1 (7 January 2019 – 7 July 2019), Rev. 3, 27 September 2019	22 October 2019	Yes
Division 5.2 and EPBC Act Approval: Minor Consistency Assessment Report – Splash Crossing Access Road, Oak Flats Interchange (October 2019)	28 October 2019	Yes

Appendix C

Environmental Review Group Meeting Notes

ERG No. 4: 05 November 2019

Meeting Notes

Purpose of Meeting	**Environmental Review Group (ERG) Meeting No.4**		
Project	Albion Park Rail bypass		
Prepared By	Toby Hobbs	**Phone No**	(02) 6021 8655
Place of Meeting	Project Office: Princes Highway Service Road/ Terry Street, Albion Park Rail NSW	**Date**	05 November 2019

Present	Peter Hawkins, RMS	William Dove (WD), EPA
	Peter Chudleigh (PC), RMS	Chris Kelly (CK), EPA
	Matthew Saviana (MS), Fulton Hogan	Kym McNamara (KM), OEH: Heritage
	Sam Leigh (SL), Fulton Hogan	Jillian Reynolds (JR), DPI: Fisheries
	Shannon Chisholm (SC), Fulton Hogan	Kyle Stevens (KS), SCC
	James Diamond (JD), Fulton Hogan	Adam De Clouett (ADC), SCC
	Nathan Russell (NR), Fulton Hogan	Rosemary Crowhurst (RC), SCC
	Jacob Cooper (JC), Fulton Hogan	Toby Hobbs (TH), VEM
	Tom Dewhurst (TD), Fulton Hogan	
	Joanne Glass (JG), DPIE (via phone)	

Apologies	Scott Fayers, RMS	Jennifer Rowe, DPIE: Compliance
	Warren Blacka, RMS	Jeremy Morice, DPI: Water
	David Ledlin, RMS	Tuesday Heather, SCC
	Jacqui McLeod, DPIE	David Wilson, WCC
	Chris Page, OEH	Peter Nunn, WCC

Distribution	All

Abbreviations

APRb – Albion Park Rail bypass

DPIE – NSW Department of Planning, Industry & Environment

DPI – NSW Department of Primary Industries

EPA – NSW Environmental Protection Authority

ER – Environmental Representative

NOW – NSW Office of Water

NRAR – Natural Resources Access Regulator

OEH – NSW Office of Environment & Heritage

RMS – NSW Roads & Maritime Services

SCC – Shellharbour City Council

VEM – Vantage Environmental Management

WCC – Wollongong City Council

Item

1 Introductory Comments – SC (Fulton Hogan)

- Format of meeting; and
- Progress since last ERG.

2 Construction Update – SC & MS (Fulton Hogan)

- Earthworks and structural concrete works progressing very well with ongoing focus on environmental risk management;
- Aerial photographs of key Project areas were presented and discussed;
- There has been a focus on completing the new East West link so that the Green Meadows noise mound can be completed as early as possible;
- The bypass works in the vicinity of CRSC will be focused on prior to the Christmas/New Year shutdown period to ensure the site is well stabilised with all required environmental controls in place;
- Final area of earthworks to be opened up will be to the south of Macquarie Rivulet. This is likely to occur after the Christmas/New Year shutdown period so that erosion/sedimentation risks are minimised; and
- Yallah Road bridge girders are scheduled to be landed in mid-December which will allow for new Yallah Road to be opened to traffic in the final configuration.

See attached excerpts from the Fulton Hogan presentation that was provided during the meeting. The full presentation can be downloaded via the following link:

https://fultonhogan.sharefile.com/d-sd2240f80dc64b469

3 Project Environmental Management & Sustainability Update – SC, JD, JC, TD and NR (Fulton Hogan)

Members of the Project environmental and sustainability team provided a presentation to the group (content can be viewed via the following link: https://fultonhogan.sharefile.com/d-sd2240f80dc64b469) which covered the following topics:

- Air quality monitoring results;
- Surface water results;
- Groundwater results;
- Noise and vibration results;
- Dewatering of dams and waterways under supervision of Project ecologists;
- Implementation of the Unexpected Finds Procedure and heritage management awareness training;
- Basin management and water quality discharges;
- Catchment management to assist in proactive erosion/sedimentation control;
- Aeronautical safety management including Obstacle Limitation Surface (OLS) intrusions;
- Works within waterways and construction of the Frazers Creek (No. 3) diversion;

Item

- On-site management of unsuitable/contaminated materials to reduce transport and disposal of materials to landfill;
- Consultation and progress associated with "at-house" acoustic treatment was presented. The first properties requiring treatment will have works commence during the week of 11 November 2019;
- Management and testing of imported fill to ensure suitability for use on the Project was discussed; and
- An overview of sustainability initiatives was presented including the proposed trial use of recycled plastics in pavement materials.

4 Community Liaison Update – AM (Fulton Hogan)

- Outcomes of the most recent community information session were discussed;
- The "good neighbours" policy that the Project has implemented was discussed along with the makeup of the Project's community team and the key initiatives that have been implemented by the team to keep stakeholders informed;
- Management of the site over the Christmas/New Year shutdown period was discussed as well as proposed notification to community/stakeholders; and
- Preparation of Project information sheets to assist stakeholders and/or receivers understand the potential temporary impacts associated with construction.

5 Site Visit

A site visit was conducted to view the Project alignment at the following locations:

- Frazers Creek (No. 3) diversion; ERG members had the opportunity to plant a native tree at this location;
- New East West link;
- Cut 5 area;
- Woollybutt Drive;
- Fill 4 containment cell; and
- Macquarie Rivulet.

6 Comments from ERG members

The following comments were provided by attendees:

- The remedial soil containment works at Fill 4 had been proactively managed with good outcomes evident;
- The Project team's focus on best-practice environmental management and achieving "beyond compliance" outcomes was appreciated; and
- Generally housekeeping was of a high standard across the site;

Item

- JR noted that the Frazers Creek diversion works look good, however the rock-lined channel under the new bridge deck would need some adjustment prior to completion to ensure fish passage/connectivity during low-flow conditions; and
- Community management team continue to engage well with stakeholders and the number of complaints has generally been low given the nature and extent of works.

7 Next Meeting

It is proposed that the next ERG meeting will be held on 11 February 2020.

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