



Warrell Creek to Nambucca Heads Pacific Highway Upgrade Project

ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

July 2019

Pacifico Project Number: WC2NH



A team consisting of RMS and Pacifico (ACCIONA Ferrovia JV) to upgrade the Pacific Highway at Warrell Creek to Nambucca Heads

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1.0 Introduction

Environmental Protection Licence (EPL) 20533 was issued to ACCIONA Infrastructure for the Warrell Creek to Nambucca Heads Pacific Highway Upgrade project on the 16th December 2014. Condition R1.8 of the EPL requires the licensee to provide the EPA with a monthly report containing the following information:

- a) details of all non-compliances with the conditions of this licence and measures taken, or proposed, to prevent a recurrence of such a non-compliance; and
- b) details of all discharges from the sediment basins where the water quality results exceed the limits prescribed by Condition L2.4 including the results of rainfall measurements to demonstrate compliance with Condition L2.5; and
- c) details of results of any acoustic investigation made in relation to Condition L4.2d);
and

The report referred to in this condition must be received by the EPA within 10 working days of the end of each month.

This document has been prepared to fulfil the requirements of Condition R1.8.

1.1 Description of Works

The project's construction activities during July 2019 included the following:

- Defect works
- Landscaping
- Clean up of RMS residual land
- Installation and maintenance of Erosion and Sediment Controls

Works scheduled for next month includes the following:

- Defect works
- Landscaping
- Clean up of RMS residual land
- Bald Hill Road Roundabout repairs
- Commencement of operational water quality basin at CH52800
- Installation and maintenance of Erosion and Sediment Controls

1.2 Consultation Activities

The project's consultation activities during July 2019 included the following:

Other Consultation Activities:

A notification was provided to residents in the vicinity of Bald Hill Road roundabouts in relation to the proposed nightworks to rectify concrete pavement defects.

Pacifico door knocked impacted residents in order to obtain written agreements for the above work to take place.

Consultation is being undertaken with residents within 200m of RMS residual land proposed for spoil reuse.

On-site meetings:

Onsite meetings were held with community members in July 2019 regarding proposed property adjustments, property adjustment inspections, boundary fencing, construction impacts, vegetation, flooding and other various matters.

At House Noise Treatments

The at house noise treatment program is currently being managed by RMS and is not part of the ACCIONA (Pacifico) Scope of Works and Technical Criteria.

Upcoming Community and stakeholder activities:

- Property adjustment works, liaising with stakeholders for fencing and driveway works
- Responding to community issues and concerns
- Out of Hours works at Bald Hill roundabout
- Consultation in relation to reusing spoil material on RMS residual land.

2.0 Weather

2.1 Discussion

The automatic recording weather stations at the main site compounds (North and South) records rainfall totals daily at 9AM. The total rainfall received for the month is summarized below:

Table 2 – Rainfall recorded at the two weather stations operated by Pacifico

| Rainfall (1/07/2019 – 31/07/2019) | | |
|-----------------------------------|------------------------|---------------------|
| Location | Total monthly rainfall | Total days rainfall |
| North (Nursery Road) | 45.4 mm | 5 |
| Albert Drive Compound (South) | 26 mm | 8 |

Rainfall received at the north and south weather stations was lower than the July monthly average of 76.1 mm at South West Rocks (Smokey Cape Lighthouse). A summary of weather conditions recorded over the month for Smoky Cape by the Bureau of Meteorology is detailed below in Table 2.3.

Daily summaries for rainfall received in July 2019 at the Albert Drive Compound and Nursery Road weather stations are shown below in Table 2.1 and 2.2.

Table 2.1 – Rainfall recorded at Albert Drive Southern Compound Automated Weather Station**July 2019**

| Location | Date/Time | Rainfall - Total (mm) |
|-------------------|-----------------|-----------------------|
| Southern Compound | 1/07/2019 9:00 | 0 |
| Southern Compound | 2/07/2019 9:00 | 0 |
| Southern Compound | 3/07/2019 9:00 | 0 |
| Southern Compound | 4/07/2019 9:00 | 3.4 |
| Southern Compound | 5/07/2019 9:00 | 10.6 |
| Southern Compound | 6/07/2019 9:00 | 4.4 |
| Southern Compound | 7/07/2019 9:00 | 4.2 |
| Southern Compound | 8/07/2019 9:00 | 0.2 |
| Southern Compound | 9/07/2019 9:00 | 0.4 |
| Southern Compound | 10/07/2019 9:00 | 0 |
| Southern Compound | 11/07/2019 9:00 | 0 |
| Southern Compound | 12/07/2019 9:00 | 0.2 |
| Southern Compound | 13/07/2019 9:00 | 0 |
| Southern Compound | 14/07/2019 9:00 | 0 |
| Southern Compound | 15/07/2019 9:00 | 0 |
| Southern Compound | 16/07/2019 9:00 | 0 |
| Southern Compound | 17/07/2019 9:00 | 0 |
| Southern Compound | 18/07/2019 9:00 | 0 |
| Southern Compound | 19/07/2019 9:00 | 0 |
| Southern Compound | 20/07/2019 9:00 | 0 |
| Southern Compound | 21/07/2019 9:00 | 0 |
| Southern Compound | 22/07/2019 9:00 | 0 |
| Southern Compound | 23/07/2019 9:00 | 0 |
| Southern Compound | 24/07/2019 9:00 | 0 |
| Southern Compound | 25/07/2019 9:00 | 0 |
| Southern Compound | 26/07/2019 9:00 | 0 |

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| | | |
|-------------------|------------|-----|
| | 27/07/2019 | |
| Southern Compound | 9:00 | 0 |
| | 28/07/2019 | |
| Southern Compound | 9:00 | 0 |
| | 29/07/2019 | |
| Southern Compound | 9:00 | 0 |
| | 30/07/2019 | |
| Southern Compound | 9:00 | 0 |
| | 31/07/2019 | |
| Southern Compound | 9:00 | 2.6 |

Table 2.2 – Rainfall recorded at the Northern (Nursery Road) Automated Weather Station**July 2019**

| Location | Date / Time | TOTAL Rain Gauge - mm |
|-------------------|--------------------|-----------------------|
| Northern Compound | 1/07/2019 9:00 | 0 |
| Northern Compound | 2/07/2019 9:00 | 0 |
| Northern Compound | 3/07/2019 9:00 | 0 |
| Northern Compound | 4/07/2019 9:00 | 0.2 |
| Northern Compound | 5/07/2019 9:00 | 24.8 |
| Northern Compound | 6/07/2019 9:00 | 12.2 |
| Northern Compound | 7/07/2019 9:00 | 0 |
| Northern Compound | 8/07/2019 9:00 | 0 |
| Northern Compound | 9/07/2019 9:00 | 4.8 |
| Northern Compound | 10/07/2019 9:00 | 3.4 |
| Northern Compound | 11/07/2019 9:00 | 0 |
| Northern Compound | 12/07/2019 9:00 | 0 |
| Northern Compound | 13/07/2019 9:00 | 0 |
| Northern Compound | 14/07/2019 9:00 | 0 |
| Northern Compound | 15/07/2019 9:00 | 0 |
| Northern Compound | 16/07/2019 9:00 | 0 |
| Northern Compound | 17/07/2019 9:00 | 0 |
| Northern Compound | 18/07/2019 9:00 | 0 |
| Northern Compound | 19/07/2019 9:00 | 0 |
| Northern Compound | 20/07/2019 9:00 | 0 |
| Northern Compound | 21/07/2019 9:00 | 0 |
| Northern Compound | 22/07/2019 9:00 | 0 |
| Northern Compound | 23/07/2019 9:00 | 0 |
| Northern Compound | 24/07/2019 9:00 | 0 |
| Northern Compound | 25/07/2019 9:00 | 0 |
| Northern Compound | 26/07/2019 9:00 | 0 |

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| | | |
|-------------------|--------------------|---|
| | 27/07/2019 | |
| Northern Compound | 9:00 | 0 |
| Northern Compound | 28/07/2019 9:00 | 0 |
| Northern Compound | 29/07/2019 9:00 | 0 |
| Northern Compound | 30/07/2019 9:00 | 0 |
| Northern Compound | 31/07/2019 9:00 | 0 |

Table 2.3: Weather conditions reported at the Smoky Cape by the Bureau of Meteorology Station (ID: 059030)

**South West Rocks, New South Wales
July 2019 Daily Weather Observations**

Observations from Smoky Cape Lighthouse.

| Date | Day | Temps | | Rain | Evap | Sun | Max wind gust | | | 9 am | | | | | 3 pm | | | | |
|---------------------------------|-----|-------|------|------|------|-------|---------------|-------|------|------|----------------|------|-----|-----|------|----------------|------|-----|-----|
| | | Min | Max | | | | Dir | Spd | Time | Temp | RH | Cld | Dir | Spd | MSLP | Temp | RH | Cld | Dir |
| | | °C | °C | mm | mm | hours | km/h | local | °C | % | g ^h | km/h | hPa | °C | % | g ^h | km/h | hPa | |
| 1 | Mo | 12.3 | 20.2 | 0 | | | | | 13.8 | 63 | 7 | SW | 7 | | | | | | |
| 2 | Tu | 13.0 | 22.2 | 0 | | | | | 17.5 | 79 | 6 | N | 2 | | | | | | |
| 3 | We | 12.8 | 22.0 | 0 | | | | | 15.2 | 72 | 5 | SW | 9 | | | | | | |
| 4 | Th | 14.4 | 22.4 | 0 | | | | | 18.6 | 72 | 7 | SE | 6 | | | | | | |
| 5 | Fr | 13.4 | 19.6 | 6.2 | | | | | 15.5 | 94 | 8 | SE | 9 | | | | | | |
| 6 | Sa | 13.4 | 19.3 | 4.4 | | | | | 18.0 | 65 | 6 | E | 11 | | | | | | |
| 7 | Su | 12.5 | 20.9 | 11.2 | | | | | 14.3 | 90 | 7 | SW | 13 | | | | | | |
| 8 | Mo | 13.0 | 19.8 | 0 | | | | | 15.4 | 85 | 8 | W | 2 | | | | | | |
| 9 | Tu | 12.1 | 20.9 | 0 | | | | | 14.8 | 73 | 2 | SW | 13 | | | | | | |
| 10 | We | 12.4 | 19.3 | 0 | | | | | 14.0 | 36 | 3 | W | 22 | | | | | | |
| 11 | Th | 12.5 | 21.8 | 0 | | | | | 15.7 | 54 | 0 | NNW | 7 | | | | | | |
| 12 | Fr | 14.8 | 22.0 | 0 | | | | | 15.7 | 49 | 0 | WSW | 19 | | | | | | |
| 13 | Sa | 14.9 | | 0 | | | | | 16.7 | 43 | 5 | W | 30 | | | | | | |
| 14 | Su | | 21.5 | 0 | | | | | | | | | | | | | | | |
| 15 | Mo | 8.5 | 19.1 | 0 | | | | | 11.8 | 47 | 1 | SW | 33 | | | | | | |
| 16 | Tu | 10.9 | 21.9 | 0 | | | | | 14.7 | 91 | 0 | W | 15 | | | | | | |
| 17 | We | 11.1 | | 0 | | | | | 12.7 | 53 | 2 | WSW | 17 | | | | | | |
| 18 | Th | | 21.5 | 0 | | | | | | | | | | | | | | | |
| 19 | Fr | 9.3 | 21.8 | 0 | | | | | 12.6 | 48 | 1 | W | 19 | | | | | | |
| 20 | Sa | 12.0 | 22.5 | 0 | | | | | 14.7 | 57 | 1 | WSW | 13 | | | | | | |
| 21 | Su | 13.5 | 22.0 | 0 | | | | | 18.2 | 56 | 1 | N | 9 | | | | | | |
| 22 | Mo | 14.0 | | 0 | | | | | 18.1 | 52 | 1 | W | 9 | | | | | | |
| 23 | Tu | | | 0 | | | | | | | | | | | | | | | |
| 24 | We | | 24.6 | 0 | | | | | | | | | | | | | | | |
| 25 | Th | 12.1 | 21.9 | 0 | | | | | 14.4 | 74 | 3 | SW | 9 | | | | | | |
| 26 | Fr | 12.8 | 22.1 | 0 | | | | | 18.5 | 70 | 6 | N | 4 | | | | | | |
| 27 | Sa | 14.5 | | 0 | | | | | 15.4 | 59 | 3 | SW | 11 | | | | | | |
| 28 | Su | | 22.5 | 0 | | | | | | | | | | | | | | | |
| 29 | Mo | 12.9 | 22.4 | 0 | | | | | 15.4 | 75 | 1 | W | 11 | | | | | | |
| 30 | Tu | 12.4 | 21.3 | 0 | | | | | 15.5 | 62 | 5 | SW | 6 | | | | | | |
| 31 | We | 10.5 | 18.0 | 20.0 | | | | | 12.0 | 99 | 8 | SW | 11 | | | | | | |
| Statistics for July 2019 | | | | | | | | | | | | | | | | | | | |
| Mean | | 12.5 | 21.3 | | | | | | 15.4 | 66 | 3 | | 12 | | | | | | |
| Lowest | | 8.5 | 18.0 | 0 | | | | | 11.8 | 36 | 0 | # | 2 | | | | | | |
| Highest | | 14.9 | 24.6 | 20.0 | | | | | 18.6 | 99 | 8 | SW | 33 | | | | | | |
| Total | | | | 41.8 | | | | | | | | | | | | | | | |

IDCJDW2123.201907 Prepared at 13:00 UTC on Wednesday 14 August 2019

3.0 Surface Water Monitoring

RMS is responsible for surface water quality monitoring post opening of the project to traffic (29th June 2018).

4.0 Sediment Basin Water Monitoring

No licensed sediment basins remain on the EPL 20533.

5.0 Noise Monitoring

During the operational phase of the project noise monitoring is conducted as required for Out of Hours (OOH) works and in relation to complaints. No out of hour works were undertaken or complaints received about construction works.

Refer to section 9.0 below for acoustic investigations.

6.0 Vibration Monitoring

Vibration monitoring was not undertaken in the reporting period. No vibration complaints were received during the reporting period.

7.0 Dust Monitoring

The last round of dust monitoring for the WC2NH project concluded on the 26/10/2018.

8.0 Groundwater Monitoring

RMS is responsible for groundwater quality monitoring post opening of the project to traffic (29th June 2018).

9.0 Acoustic Investigations

No acoustic investigations occurred during the month of July 2019 as no out of hours works occurred and no construction noise complaints received during the month.

10.0 Complaints

10.1 Summary of Environmental Complaints

One complaint was received through the EPA in relation to the WC2NH Project in July 2019. The complaint was in relation to the disposal of waste material on RMS owned land. A response was provided to the EPA:

The Pacifico Team have one main location where soil material from the WC2NH Project site is being stockpiled which is known as ASF1-B (or Gate 3B) off Albert Drive, Donnellyville. There is approximately 30,000m³ of ENM to be reused on this site. It was noted during soil testing undertaken by Pacifico that there was some construction waste material at this location. Pacifico have been removing the construction waste material from the spoil, stockpiling it separately and disposing the waste to landfill. The team will continue to remove this waste material until the site meets ENM exemption requirements for reuse of spoil on RMS residual land. Pacifico will apply for approval from RMS to retain the spoil material on RMS Residual Land after the construction waste material has been removed.

There are also two other smaller locations that Pacifico are currently applying for approval to retain spoil material on RMS land. The Post Construction Land Condition Assessments for these sites have been completed and the material meets the ENM exemption requirements in both locations. The sites are SP5 which is located opposite ASF1-B off Albert Drive, Donnellyville, where approximately 2500m³ of ENM is stored and SP7 off Bald Hill Road, Macksville where approximately 1050m³ of ENM is stored. Pacifico are currently undertaking community consultation for these sites and will continue with the RMS approval process to retain spoil material on RMS Residual Land once consultation is complete.

No further action has been undertaken by the EPA.

11.0 Non-Compliance

11.1 Summary of Non-compliances

No non-compliances occurred during the reporting period.