

# Warrell Creek to Nambucca Heads – Pacific Highway Upgrade Project

## ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

April 2015

Pacifico Project Number: WC2NH



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

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### 1. Introduction

Environmental Protection Licence (EPL) 20533 was issued to ACCIONA Infrastructure for the Warrell Creek to Nambucca Heads Pacific Highway Upgrade project on the 16<sup>th</sup> 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 M4.1; 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 April 2015 were limited to the following:

- Demolition of existing structures;
- Vegetation clearing for installation of fencing;
- Installation of permanent boundary fencing;
- Vegetation clearing for access tracks;
- Vegetation clearing for sediment basins and other sediment controls;
- Mainline clearing and grubbing;
- Excavation for sediment basins and other sediment controls;
- Topsoil stripping;
- Installation of temporary waterway crossings;
- Trial blasting;
- Clearing through Flying Fox area;
- Site compound establishment;
- Installation of Frog Fencing;
- Geotechnical Investigations; and
- Site Survey

The works scheduled for next month include:

- Clearing and Grubbing;
- Topsoil stripping;
- · Commencement of production blasting;
- Earthworks including crushing;
- Continuing clearing through the Flying Fox area;
- Commencement of bridge works including temporary work platforms;
- Installation of erosion and sediment controls;
- Installation of permanent boundary fencing;
- Commencement of culvert installation;

- Site compound establishment (Northern Compound);
- Geotechnical Investigations;
- Demolition of existing structures;
- Installation of temporary waterway crossings; and
- Site Survey.

### 1.2 Consultation Activities

The project's consultation activities during April 2015 included various community letterbox drop notifications and the following:

Groups	Date	Key Topics
Environmental Review Group	21/04/15	Construction Progress, Design Update, Upcoming works, EWMS discussion, Environmental Update, Monitoring update.
Two Community Information Sessions (1 at Albert Drive Compound, 1 at Nambucca Entertainment Centre)	22/04/15 and 23/04/15	Construction Progress, Controlled Blasting, Flooding, At House Acoustic Treatments.
Estuary Committee Presentation	23/04/15	Flood modelling report, bridge construction methodology.
Nambucca Rotary Club	29/04/15	Project Update

### Other consultation activities:

**Staffed display** was organised for the Macksville Agricultural Show on Saturday 18 April 2015 with the aim to connect with the community, reinforce the existing communication channels in place reaffirming our availability and provide current information on the project.

#### 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 for May 2015

- Consultation with residents within 200m of the controlled blasting zones
- Consultation with residents regarding increasing the blast limits
- Mail out of preconstruction condition reports to residents within controlled blasting zones.
- Notification to residents within controlled blasting zones as per Community Involvement Plan (letterbox drop, SMS, email)
- Consultation with Nambucca Rotary Club regarding the Nambucca River Festival planned for November 2015
- Consultation with property owners regarding property works
- Updating community displays at the various display locations

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### 2. Weather

### 2.1 Discussion

The automatic recording weather station at the main site compounds (north and south) records rainfall totals daily at 9AM. The daily summaries for rainfall received in April at the Albert Drive compound and Northern Compound are shown below in Table 2.1 and 2.2. The total rainfall received for the month is as follows: -

Month	Total monthly rainfall	Location
01/04/15 – 31/04/15	121.2mm	Northern Compound
01/04/15 – 31/04/15	128.6mm	Albert Drive Compound

The site experienced a total of 14 rain days throughout the month of April 2015.

During April, rainfall received on site was lower than the April monthly average of 132.5mm. A summary of weather conditions recorded over the month for Smoky Cape by the Bureau of Meteorology is detailed below in Table 2.2.

Table 2.1 – Rainfall recorded at Albert Drive compound automated weather station

Tubi	C 2.1 10	TOTAL Rain
Date	Time	Gauge
1/04/2015	9:00:00	28.2
2/04/2015	9:00:00	0.4
3/04/2015	9:00:00	0.2
4/04/2015	9:00:00	31.2
5/04/2015	9:00:00	18.6
6/04/2015	9:00:00	6.6
7/04/2015	9:00:00	17.6
8/04/2015	9:00:00	0.2
9/04/2015	9:00:00	0
10/04/2015	9:00:00	0
11/04/2015	9:00:00	0.4
12/04/2015	9:00:00	1.8
13/04/2015	9:00:00	0
14/04/2015	9:00:00	0
15/04/2015	9:00:00	0
16/04/2015	9:00:00	0
17/04/2015	9:00:00	0.2
18/04/2015	9:00:00	0
19/04/2015	9:00:00	3.4

20/04/2015	9:00:00	3
23/04/2015	9:00:00	0
24/04/2015	9:00:00	0
25/04/2015	9:00:00	0
26/04/2015	9:00:00	0
27/04/2015	9:00:00	0
28/04/2015	9:00:00	0
29/04/2015	9:00:00	0
30/04/2015	9:00:00	16.8

Table 2.2 – Rainfall recorded at the Northern compound automated weather station

Date	Time	TOTAL Rain Gauge
1/04/2015	9:00:00	21
2/04/2015	9:00:00	1.8
3/04/2015	9:00:00	0
4/04/2015	9:00:00	30.2
5/04/2015	9:00:00	27.2
6/04/2015	9:00:00	3.6
7/04/2015	9:00:00	11.6
8/04/2015	9:00:00	0
9/04/2015	9:00:00	0
10/04/2015	9:00:00	0
11/04/2015	9:00:00	0.8
12/04/2015	9:00:00	1.6
13/04/2015	9:00:00	0.2
14/04/2015	9:00:00	0
15/04/2015	9:00:00	0
16/04/2015	9:00:00	0
17/04/2015	9:00:00	0
18/04/2015	9:00:00	0
19/04/2015	9:00:00	0.2
20/04/2015	9:00:00	4.8
21/04/2015	9:00:00	0.6
22/04/2015	9:00:00	0
23/04/2015	9:00:00	0
24/04/2015	9:00:00	0
25/04/2015	9:00:00	0.2
26/04/2015	9:00:00	0
27/04/2015	9:00:00	0
28/04/2015	9:00:00	0
29/04/2015	9:00:00	0
30/04/2015	9:00:00	17.4

Table 2.2: Weather conditions recorded in April 2015 at Smoky Cape by the Bureau of Meteorology.

### Observations from Smoky Cape Lighthouse.

date	min to 9am	anomaly	max from 9am	anomaly	rain to 9am
	°C	°C	°C	°C	mm
Wed 01/04/2015	17.9	+1.2	24.8	+0.6	70.0
Thu 02/04/2015	19.0	+2.3	27.1	+2.9	7.2
Fri 03/04/2015	20.1	+3.4	26.4	+2.2	0.0
Sat 04/04/2015	18.4	+1.7	19.4	-4.8	31.0
Sun 05/04/2015	17.6	+0.9	25.9	+1.7	24.0
Mon 06/04/2015	19.0	+2.3	27.7	+3.5	2.0
Tue 07/04/2015	16.8	+0.1	26.9	+2.7	20.6
Wed 08/04/2015	15.0	-1.7	25.0	+0.8	0.0
Thu 09/04/2015	16.6	-0.1	25.0	+0.8	0.0
<u>Fri 10/04/2015</u>	15.4	-1.3	24.5	+0.3	0.0
Sat 11/04/2015	15.3	-1.4	24.5	+0.3	4.6
Sun 12/04/2015	16.3	-0.4	26.2	+2.0	1.0
Mon 13/04/2015	16.0	-0.7	24.5	+0.3	0.0
Tue 14/04/2015	16.0	-0.7	25.3	+1.1	0.0
Wed 15/04/2015	17.9	+1.2	27.0	+2.8	0.0
Thu 16/04/2015	19.0	+2.3	26.2	+2.0	0.0
Fri 17/04/2015	19.4	+2.7	28.1	+3.9	0.0
Sat 18/04/2015	21.1	+4.4	26.6	+2.4	0.0
Sun 19/04/2015	19.8	+3.1	21.2	-3.0	4.0
Mon 20/04/2015	16.3	-0.4	-	-	1.2
Tue 21/04/2015	-	-	25.2	+1.0	0.0
Wed 22/04/2015	14.0	-2.7	24.8	+0.6	0.0
Thu 23/04/2015	16.8	+0.1	26.3	+2.1	0.0
<u>Fri 24/04/2015</u>	18.1	+1.4	-	-	0.0
Sat 25/04/2015	-	-	28.0	+3.8	0.0
<u>Sun 26/04/2015</u>	14.9	-1.8	20.3	-3.9	0.0
Mon 27/04/2015	14.7	-2.0	23.1	-1.1	0.0
Tue 28/04/2015	14.6	-2.1	23.1	-1.1	0.0
Wed 29/04/2015	13.2	-3.5	22.9	-1.3	3.8
Thu 30/04/2015	14.1	-2.6	20.1	-4.1	4.2

### Surface Water Monitoring

Sampling was undertaken by ACCIONA (Pacifico) on the 17<sup>th</sup> April during a dry period and 30th April during a wet period. Field tests and laboratory samples were taken. The results are available in Appendix A.

The laboratory sample results are currently still pending and will be provided in the next monthly report and at the monthly Environmental Review Group Meeting.

The April "Wet" event was monitored on the 30<sup>th</sup> of April after the site had received 17mm of rainfall.

Dissolved oxygen levels were noted to be below ANZECC criteria at:

- Upper Warrell Creek upstream (background ranges from 0.85 9.66mg/L);
- Stony Creek downstream (background ranges from 1.5 8.4mg/L);
- Lower Warrell Creek upstream and downstream (background ranges from 5 9.7mg/L);
- Gumma Wetlands upstream and downstream (background ranges from 0.6 13.6mg/L);
- Nambucca River upstream and downstream (background ranges from 6.8 to 10mg/L).

The low dissolved oxygen levels are consistent with baseline water quality data collected by RMS prior to the commencement of construction activities at Upper Warrell Creek, Stony Creek and Gumma Wetlands.

Low dissolved oxygen levels were recorded at Nambucca River and Lower Warrell Creek both upstream and downstream of the worksite. It is likely that the change in monitoring location between the baseline sampling and the construction sampling is the cause of the lower recorded dissolved oxygen levels.

A low pH level was also picked up at:

- Upper Warrell Creek downstream;
- Stony Creek downstream;
- Gumma Wetlands;

The low pH levels recorded are consistent with the baseline pre-construction monitoring undertaken.

The April "dry" event was monitored on the 17<sup>th</sup> of April.

Low pH was recorded at the following locations:

- Upper Warrell Creek;

- Stony Creek;
- Lower Warrell Creek Upstream;
- Gumma Wetlands.

The low pH levels recorded are consistent with the baseline pre-construction monitoring undertaken.

Low dissolved oxygen levels were recorded at:

- Upper Warrell Creek Downstream (background ranges from 1. 7.1 mg/L);
- Lower Warrell Creek Upstream;
- Gumma Wetland

The low dissolved oxygen levels are consistent with the baseline pre-construction monitoring undertaken.

High turbidity levels were recorded at:

- Gumma Wetland (background ranges from 2.4 951ntu's);
- Nambucca River (background ranges from 3.8 98ntu).

The high turbidity levels are consistent with the baseline pre-construction monitoring undertaken.

### 4. Sediment Basin Water Monitoring

Water was released from sediment basins between the  $10^{th}$  April –  $16^{th}$  April after a rainfall event, further rain was received on the  $11^{th}$  –  $13^{th}$  April. Water was also released between the  $20^{th}$  –  $29^{th}$  April following a rainfall event. Table 4 below has the water quality results recorded for the water release events:

Table 4 – Water Release Register

### Water Release Register



Date	Basin ID	Oil and Grease (visible)	рН	Turbidity (NTU)	TSS (mg/L)	Approx Volume Discharged (kL)	Comments
10/04/2015	B48.46	N	6.82	40.5	11	200	30% full - Commissioned
10/04/2015	B55.8	N	7.16	60.3	8	738	Under construction - not yet receiving water from

							site
10/04/2015	B54.7	N	7.14	170	17	500	Under construction - not yet receiving water from site
11/04/2015	B56.5	N	7.19	38.5	40	200	Under construction - not yet receiving water from site
11/04/2015	B46.35	N	6.81	3.2	2	500	Under construction - not yet receiving water from site
13/04/2015	B54.7	N	7.56	170	31	500	Under construction - not yet receiving water from site
13/04/2015	B48.46	N	7.14	90	11	300	30% full - Commissioned Under construction - not yet receiving water from
13/04/2015	B49.07	N	7.22	11.8	4	1,000	site
14/04/2015	B47.14	N	7.5	143	22	597	Commissioned
4 = 10 + 10 0 4 =	246.02		- 00	450			Under construction - not yet receiving water from
15/04/2015	B46.35	N	7.03	150	21	500	site Under construction - not
16/04/2015	B56.5	N	7.19	38.5	40	400	yet receiving water from site  Under construction - not yet receiving water from
16/04/2015	B46.35	N	6.56	150	21	500	site
20/04/2015	B54.7	N	6.74	6.5	17	1,000	Under construction - not yet receiving water from site
23/04/2015	B55.8	N	7.8	93	50	738	Under construction - not yet receiving water from site
23/04/2015	B56.9	N	7.9	9.8	5	500	Under construction - not yet receiving water from site
24/04/2015	B56.75	N	7.63	27	13	200	Under construction - not yet receiving water from site
27/04/2015	B56.9	N	7.8	43	9.8	500	Under construction - not yet receiving water from site Only 1/4 full - released
28/04/2015	B54.3	N	8.26	30	16	150	to install sed marker
29/04/2015	B47.6	N	6.54	60	15	200	Only 1/4 full - Commissioned but catchment area not stripped or cleared.
23/04/2013	D47.U	IN	0.54	00	13	200	surpped of cleared.

### 5. Noise Monitoring

Monthly routine construction noise monitoring was undertaken on the 24<sup>th</sup> April at seven locations near to the construction works. Noise monitoring results are indicative of background noise levels. The Noise monitoring results are available in Appendix A.

### 6. Vibration Monitoring

Vibration monitoring in relation to the trial blasting was undertaken on the 15<sup>th</sup> April 2015, the results are shown in Table 6 below. The trial blast was set up to record a variety of different charge weights to determine production blast parameters. The trial blast program recorded several blasts over 5mm/s, however this is less than 5% of the overall blasts predicted to occur at each of the cuts. There were no blasts that recorded vibration levels over 10mm/s.

Due to the length of stemming used for each blast, airblast overpressure readings were not triggered for any of the trial blasts.

The Project is currently seeking written agreements from impacted receivers to increase the vibration limit in accordance with the Planning Approval.

Table 6 – Vibration results from trial blast.

Location	Blast Hole Number	Time	Plugs	MIC (kg)	Monitor M1	Monitor M2	Monitor M3	Monitor M4
						Vibratio	n (PPV)	
Cut 8	1	11:10	5	5.675	< 0.5	3.429	8.509	< 0.5
Cut 8	2	11:35	3	3.405	< 0.5	1.27	3.937	< 0.5
	1	12:32	5	5.675	0.889	0.889	1.651	0.889
Cut 9	2	12:48	10	11.35	1.524	1.651	2.794	1.905
	3	13:07	20	22.7	1.905	2.032	4.699	2.921
	1	13:53	5	5.675	< 0.5	1.397	4.445	< 0.5
Cut 10	2	13.59	5	5.675	< 0.5	< 0.5	5.715	< 0.5
	3	14:10	5	5.675	< 0.5	< 0.5	6.477	< 0.5
	1	14:41	3	3.405	2.286	2.286	3.175	0.889
Cut 11	2	14:49	5	5.675	2.413	2.413	5.461	< 0.5
	3	14:59	10	11.35	7.874	7.874	NR	NR

### 7. Dust Monitoring

Dust gauges were placed at nearby sensitive receivers on the 09/03/15 - 10/04/15. Dust gauge results are available in Appendix A. No exceedances were recorded.

### 8. Groundwater Monitoring

ACCIONA (Pacifico) have undertaken groundwater monitoring on the 04/05/15 after a handover with RMS. The results for the monitoring are still pending from the laboratory.

### 9. Acoustic Investigations

No acoustic investigations were undertaken in April 2015.

### 10. Complaints

### 9.1 Summary of Complaints for the month

The following is a brief summary of environmental complaints received in April 2015.

One environmental complaint dated Tuesday 21<sup>st</sup> April 2015 was received on Thursday 23<sup>rd</sup> April 2015 via mail from a resident of Old Coast Road regarding dust management and monitoring, and road maintenance. As the complaint followed a number of interactions and actions undertaken to address the resident's concerns, the community team is currently consulting with the resident to clarify the basis of the complaint. A letter was sent out on Monday 4 May to invite the resident to meet the community team and clarify what additional actions can be carried out to resolve his enquiries. The resident responded positively to the letter and contacted the community team to book a meeting. Meeting is to be held at 10am on Thursday 14 May 2015 at the Warrell Creek Community Display Centre.

### 11. Non-Compliance

### 10.1 Summary of Non-compliances

No non-compliances with the EPL conditions were recorded in April 2015.

### Appendix A – Monitoring Results

Table 1 - Surface Water Sampling Results – 1 dry and 1 wet event.

April 2015 - Dry

Event Weather: Fine Low Tide: 1:08PM

Location		Levels of Concern	Upper Warrell Creek	Upper Warrell Creek	Stony Creek	Stony Creek	Lower Warrell Creek	Lower Warrell Creek	Flying Fox Gumma Wetlands E	Flying Fox Gumma Wetlands W	Flying Fox Gumma Wetlands N	Nambucca River	Nambucca River
Туре	Units		Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Upstream	Downstream	Upstream	Downstream
Date of Sampling		TBA	17-Apr-15	17-Apr-15	17-Apr-15	17-Apr-15	17-Apr-15	17-Apr-15	17-Apr-15	17-Apr-15	17-Apr-15	17-Apr-15	17-Apr-15
Time of Sampling			11:15 AM	10:51 AM	10:11 AM	9:30 AM	11:38 AM	11:53 AM	1:16 PM	1:30 PM	1:42 PM	12:40 PM	12:20 PM
Field Physical da	ata												
Temperature	С	na	19.49	20.05	20.72	20.31	23.19	24.83	21.1	23.46	20.74	26.18	27.48
pН	рН	6.5-8.8	6.36	6.18	6.25	6.13	6.47	6.51	5.46	5.52	5.73	7.89	7.93
ORPmV	ORPmV	na	182	198	150	189	174	170	43	68	10.6	160	140
Conductivity	mS/cm	0.12-2.2 (FW)	0.226	0.222	0.24	0.23	0.311	0.349	0.412	0.343	0.435	24.9	24.8
Turbidity	NTU	50 (FW), 10(SW)	14.3	14.6	6.4	6.3	44.5	33	27	247	30.3	17.7	28.6
Dissolved Oxygen	mg/L	>5	5.03	3.16	7.84	2.26	4.82	5.98	0	0	0	8.71	8.97
TDS	g/L	1.474 (FW)	0.147	0.144	0.156	0.15	0.213	0.235	0.268	0.223	0.283	15.4	15.4

April 2015 - Wet

Event Weather: Overcast With Showers Low Tide:

Location		ANZECC Criteria	Upper Warrell Creek	Upper Warrell Creek	Stony Creek	Stony Creek	Lower Warrell Creek	Lower Warrell Creek	Flying Fox Gumma Wetlands E	Flying Fox Gumma Wetlands W	Flying Fox Gumma Wetlands N	Nambucca River	Nambucca River
Туре	Units		Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Upstream	Downstream	Upstream	Downstream
Date of Sampling			30-Apr-15	30-Apr-15	30-Apr-15	30-Apr-15	30-Apr-15	30-Apr-15	30-Apr-15	30-Apr-15	30-Apr-15	30-Apr-15	30-Apr-15
Time of Sampling		TBA	2:08 PM	1:47 PM	11:34 AM	11:05 AM	1:38 PM	1:48 PM	10:32 AM	9:56 AM	9:21 AM	9:09 AM	9:25 AM
Field Physical data													
Temperature	С	na	16.39	16.91	17.53	17.28	19.07	19.17	17.02	19.47	17.74	21.06	21.14
pН	рН	6.5-8.8	6.57	6.45	6.69	6.28	6.81	6.85	2.95	5.81	6.02	7.98	7.97
ORPmV	ORPmV	na	-149	-142	-164	-104	-151	-151	-142	-127	-142	-116	-108
Conductivity	mS/cm	0.12-2.2 (FW)	0.247	0.239	0.071	0.218	0.585	0.594	0.628	0.482	0.482	32.5	33.6
Turbidity	NTU	50 (FW), 10(SW)	7.9	9.2	3.6	2.5	4.4	4.7	10.9	24.7	1.8	4.7	1.5
Dissolved Oxygen	mg/L	>5	2.44	5.26	9.08	4.2	2.33	2.11	0.97	0.22	1.76	3.96	3.21
TDS	g/L	1.474 (FW)	0.161	0.155	0.046	0.142	0.375	0.38	0.402	0.313	0.313	19.8	20.1

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WCU = Upper Warrell Creek Upstream

WCD = Upper Warrell Creek Downstream

SCU = Stony Creek Upstream

SCD = Stony Creek Downstream

LWCU = Lower Warrell Creek Upstream

LWCD = Lower Warrell Creek Downstream

NRU = Nambucca River Upstream

NRD = Nambucca River Downstream

Table 2 - Noise Monitoring Results

### Monthly Noise Monitoring Results April

			Rec									Principal sources/	Measurements exceeding criteria, plant/ operations			
Date	Time	Location	ID	NCA	Laeq	LAFMAX	LAFMIN	LAF05	LAF10	LAF50	LAF90	operations	causing	Corrective actions	NML	Notes
												BG:				
1 1												Private				
24/04/2015	15:22	Mattick Rd	442	6	50.3	74	33.7	52.8	47.4	39.3	36.4	Traffic	Nil	NA	44	
24/04/2045	40.50		440			<b></b> c	20.6	60.0		45.7	44.6	BG:				
24/04/2015	10:58	Letitia Cl	410	4	55	77.6	38.6	62.2	58	45.7	41.6	Mower	Nil	NA	59	
												BG: Birds, Traffic on				
24/04/2015	15:49	Nursery Rd	415	4	57.2	77.8	47.3	61.3	58.7	53.6	50.9	highway	Nil	NA	59	
24/04/2013	13.43	rearsery na	713	7	37.2	77.0	47.3	01.5	30.7	33.0	30.3	BG:	IVII	101	33	
												Private				
												vehicles				
												driving				
24/04/2015	16:17	Gumma Rd	383	3	63	82.8	42.5	68.4	61.8	61.8	45.7	past	Nil	NA	50	
												BG: Birds,				
												road				Excavator visible, not
24/04/2015	16:44	Bald Hill Rd	197	3	54.3	78.9	36.4	57.5	53.6	43.4	39.8	traffic	Nil	NA	50	audible
												Concrete	Concrete truck has caused			
												truck on	marginal increase above			Concrete truck parked
												road (53-	NML. Truck moved from			opposite receiver, moved
24/04/2015	11:51	Cockburns Ln	13	1	55.6	77.6	43.9	56.6	55.7	52.2	48.1	55)	area to reduce noise.	NA	50	after 5 mins
												BG:				
												Traffic,				
24/04/2015	11:20	Albert Dr	74	1	57.3	78.2	42.2	55.7	51.2	49.7	45	birds, dog	Nil	NA	50	

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Table 3 - Dust monitoring results

### Monthly Dust Monitoring Results - March/April 2015

		Unit	Levels of Concern	LOR									
DDG ID					DDG1	DDG2	DDG3	DDG4	DDG5	DDG6	DDG7	DDG A1	DDG A2
	Start date of sampling	ng			9/03/2015	9/03/2015	9/03/2015	9/03/2015	9/03/2015	9/03/2015	9/03/2015	9/03/2015	9/03/2015
	Finish date of sampl	ing		10/04/2015	10/04/2015	10/04/2015	10/04/2015	10/04/2015	10/04/2015	10/04/2015	10/04/2015	10/04/2015	
	Total Soluble	g/m².month	N/A	0.1	<0.1	1.3	0.3	2.1	0.3	0.2	0.2	-	-
	Matter	mg	N/A	1	1	24	5	39	5	2	3	-	-
Mar-	Total Insoluble	g/m².month	4 or increase of 2	0.1	0.9	0.5	1.1	0.8	0.2	0.5	0.4	-	-
15	Matter	mg	N/A	1	16	10	20	14	4	9	8	-	-
	Total Solids	g/m².month	N/A	0.1	0.9	1.8	1.4	2.9	0.5	0.6	0.6	-	-
		mg	N/A	1	17	34	25	53	9	11	11	-	-
	Arsenic	mg/L	0.001	0.001	NA	<0.001	<0.001						
	Comments												

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