

# Monthly Monitoring Data

**Environmental Protection Licence Number:** 12693

**link to EPL12693 on EPA Public Register:** [Click Here](#)

**Licensee:** Newcastle Coal Infrastructure Group Pty Ltd, Locked Bag 6003, Hunter Region Mail Centre NSW 2310

**Premises:** Newcastle Coal Infrastructure Group, Cormorant Road, Kooragang NSW 2304

**Date Published:** 6 August 2019

**Note:** On the 25<sup>th</sup> of August 2017 an amendment was made to the NCIG Environmental Protection Licence (EPL12693) which removed the requirement for ambient air quality monitoring at Points 7-10 and 14-15. However, NCIG will continue to publish ambient air quality data for these locations previously listed in EPL12693 for the interest of the public.

## Depositional Dust Monitoring

**Sample Period:** 9 July 2019 – 8 August 2019

**Date Obtained:** 20 August 2019

**Units of Measure:** Grams per square metre per month (g/m<sup>2</sup>/month)

**Frequency:** Monthly

	Monitoring Point 7 - DG3 (Kooragang Island)	Monitoring Point 8 - DG4 (Mayfield Sport Rec Club)	Monitoring Point 9 - DG5 (Mayfield West)	Monitoring Point 10 - DG6 (Sandgate)
<b>Depositional Dust</b>	0.7	0.9	1.1	3.3

## High Volume Air Sampling

**Date Obtained:** 20 August 2019

**Units of measure:** Micrograms per cubic metre (µg/m<sup>3</sup>)

**Frequency:** Weekly

	Monitoring Point 14 - HVAS 1 (Steel River)				Monitoring Point 15 - HVAS 2 (Crebert Street)			
	TSP		PM10		TSP		PM10	
<b>01-Jul 19</b>	60	<b>01-Jun 19</b>	31	<b>01-Jul 19</b>	46	<b>01-Jul 19</b>	22	
<b>07-Jul 19</b>	39	<b>07-Jun 19</b>	6	<b>11-Jul 19</b>	12	<b>11-Jul 19</b>	5	
<b>13-Jul 19</b>	66	<b>13-Jun 19</b>	7	<b>13-Jul 19</b>	28	<b>13-Jul 19</b>	6	
<b>19-Jul 19</b>	41	<b>19-Jun 19</b>	17	<b>22-Jul 19</b>	33	<b>22-Jul 19</b>	15	
<b>25-Jul 19</b>	42	<b>25-Jun 19</b>	21	<b>25-Jul 19</b>	40	<b>25-Jul 19</b>	20	
<b>31-Jul 19</b>	16	<b>31-Jul 19</b>	8	<b>05-Aug 19</b>	47	<b>31-Jul 19</b>	4	

NB. Sample period is a 24-hour period on each of the above dates | TSP = Total Suspended Particulates | PM10 = Particulate Matter <10 microns

**Groundwater Resampling:** Point 20 (K9/3N)**Sample Date:** 25 July 2019**Date Obtained:** 20 August 2019**Frequency:** Resample to confirm trigger exceedance in six monthly groundwater monitoring

Pollutant	Units of Measure	Initial value (trigger exceedance)	Resample Value	Confirmed to be elevated result? (Yes/No)
Nickel	mg/L	0.005	0.004	Yes*

\*NCIG will proceed to Step 4 and 5 of the Contingency Response Program in Condition E1.1 of EPL12693.

**Groundwater Resampling:** Point 23 (K11/1S)**Sample Date:** 25 July 2019**Date Obtained:** 20 August 2019**Frequency:** Resample to confirm trigger exceedance in six monthly groundwater monitoring

Pollutant	Units of Measure	Initial value (trigger exceedance)	Resample Value	Confirmed to be elevated result? (Yes/No)
Cyanide (total)	mg/L	0.024	0.007	Yes*

\*NCIG will proceed to Step 4 and 5 of the Contingency Response Program in Condition E1.1 of EPL12693.

**Groundwater Resampling:** Point 36 (BH20S)**Sample Date:** 25 July 2019**Date Obtained:** 20 August 2019**Frequency:** Resample to confirm trigger exceedance in six monthly groundwater monitoring

Pollutant	Units of Measure	Initial value (trigger exceedance)	Resample Value	Confirmed to be elevated result? (Yes/No)
Arsenic	mg/L	0.013	0.01	Yes*
Iron	mg/L	14.2	57.8	Yes*

\*NCIG will proceed to Step 4 and 5 of the Contingency Response Program in Condition E1.1 of EPL12693.

**Groundwater Resampling:** Point 37 (BH20D)**Sample Date:** 25 July 2019**Date Obtained:** 20 August 2019**Frequency:** Resample to confirm trigger exceedance in six monthly groundwater monitoring

Pollutant	Units of Measure	Initial value (trigger exceedance)	Resample Value	Confirmed to be elevated result? * (Yes/No)
Manganese	mg/L	12.3	4.61	No*

\*The process has now concluded at Step 3 of the Contingency Response Program in Condition E1.1 of EPL12693.

**Groundwater Resampling:** Point 40 (BH23S)

**Sample Date:** 25 July 2019

**Date Obtained:** 20 August 2019

**Frequency:** Resample to confirm trigger exceedance in six monthly groundwater monitoring

Pollutant	Units of Measure	Initial value (trigger exceedance)	Resample Value	Confirmed to be elevated result? * (Yes/No)
Bromide	mg/L	16.5	0.201	No*
Iron	mg/L	13.5	2.84	Yes*

\*Bromide – the process has now concluded at Step 3 of the Contingency Response Program in Condition E1.1 of EPL12693.

\*Iron – NCIG will proceed to Step 4 and 5 of the Contingency Response Program in Condition E1.1 of EPL12693.

**Groundwater Resampling:** Point 41 (BH23D)

**Sample Date:** 25 July 2019

**Date Obtained:** 20 August 2019

**Frequency:** Resample to confirm trigger exceedance in six monthly groundwater monitoring

Pollutant	Units of Measure	Initial value (trigger exceedance)	Resample Value	Confirmed to be elevated result? * (Yes/No)
Arsenic	mg/L	0.006	0.002	No*
pH	pH	6.45	7.39	No*
Cyanide	mg/L	0.095	0.014	No*

\*The process has now concluded at Step 3 of the Contingency Response Program in Condition E1.1 of EPL12693.

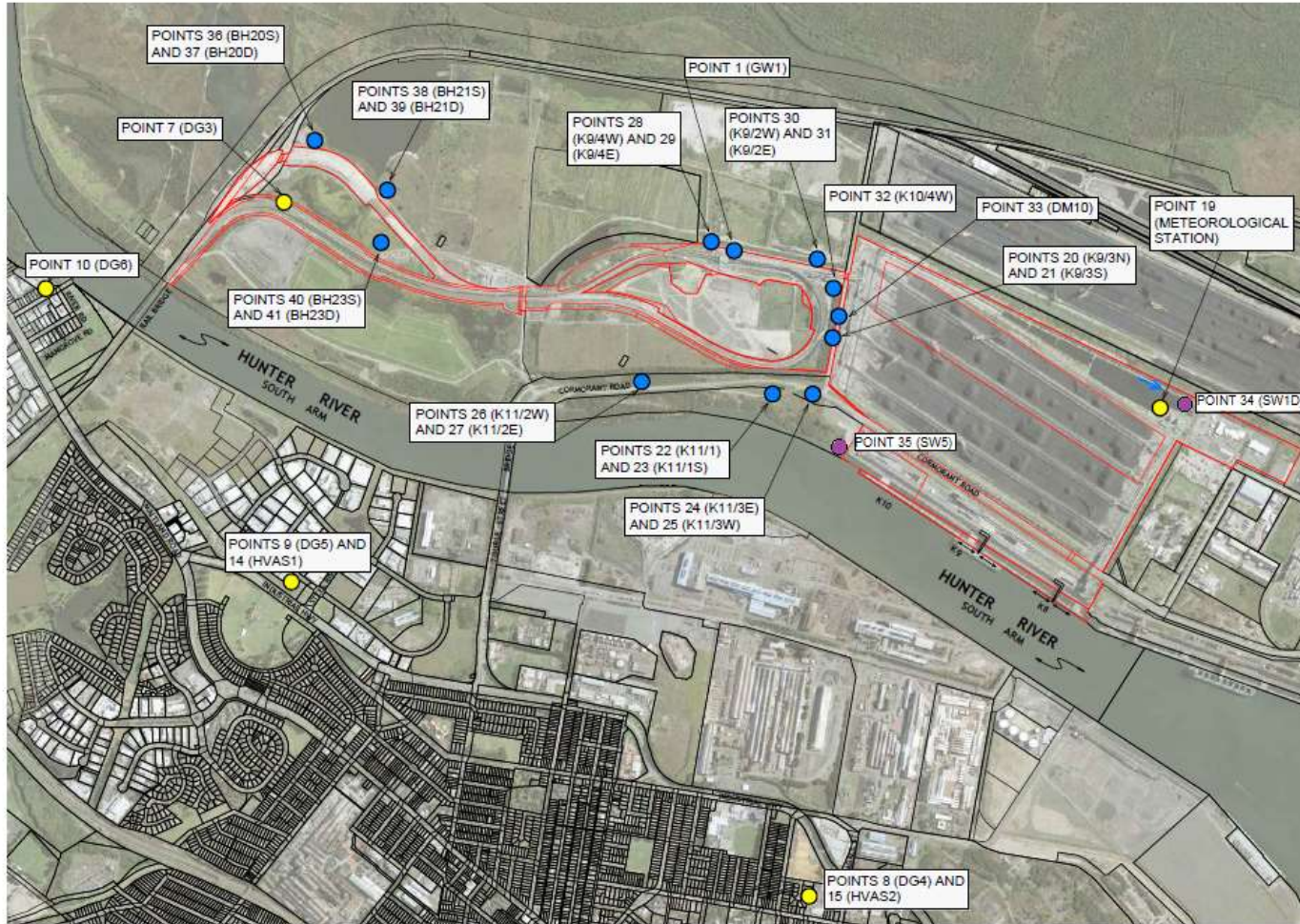


Figure 1: Groundwater, Surface Water and Additional Ambient Air Quality Monitoring Locations.