



Licensee: **Koppers Carbon Materials & Chemicals Pty Ltd**

Address: **Woodstock Street Mayfield NSW 2304**

EPL No.: **2156**

Date Results Obtained: **20/02/2020**

Frequency of Monitoring as Required by Licence: **Three & Six Monthly**

Parameter	Units	Frequency	EPL Point1	EPL Point 3	EPL Point 4	EPL Point 5	EPL Point 8	EPL Point 9A	EPL Point 9B	EPL Point 10	EPL Point 11	EPL Point 12	EPL 13	EPL 14	EPL 15
Stack ID			111H	414H	518H	711H	611H	Boiler 1	Boiler 2	Creosote Reboiler	Tar Reboiler	Naphthalene Reboiler	HTF 2	HTF 3	HTF 1
Benzene	mg/m <sup>3</sup>	3 months	Not Operational at time of testing	Not Operational at time of testing	Not Operational at time of testing	Not Operational at time of testing	26	N/A	N/A	<0.19	<0.19	<0.19	N/A	N/A	N/A
Hydrogen Sulphide	mg/m <sup>3</sup>	6 months	as above	as above	as above	as above	<1.8 (5)	N/A	N/A	<1.9	<1.9	<1.9	N/A	N/A	N/A
Naphthalene	mg/m <sup>3</sup>	3 months	as above	as above	as above	as above	3.9	N/A	N/A	0.023	0.0031	0.0015	N/A	N/A	N/A
Polycyclic Aromatic Hydrocarbons	mg/m <sup>3</sup>	3 months	as above	as above	as above	as above	28	N/A	N/A	0.34	0.011	0.0096	N/A	N/A	N/A
Volatile Organic Compounds	mg/m <sup>3</sup>	3 months	as above	as above	as above	as above	36	N/A	N/A	<0.37	<0.37	1.7	N/A	N/A	N/A
Volatile Organic Compounds as n-propane equivalent	mg/m <sup>3</sup>	3 months	as above	as above	as above	as above	20	N/A	N/A	<0.15	<0.15	1.3	N/A	N/A	N/A
Temperature	°C	6 months	as above	as above	as above	as above	25	127	105	514	283	333	272	Not Operational at time of testing	257
Velocity	m/s	6 months	as above	as above	as above	as above	N/A	3.1	2.2	13	6.0	9.9	3.9	Not Operational at time of testing	2.9
Volumetric Flowrate	m <sup>3</sup> /sec	6 months	as above	as above	as above	as above	N/A	0.51	0.38	1.7	0.94	1.6	0.5	Not Operational at time of testing	0.33

Parameter	Units	Frequency	EPL Point 9A	EPL Point 9B	EPL Point 12	EPL Point 13	EPL Point 14	EPL Point 15
Stack ID			Boiler 1	Boiler 2	Naphthalene Reboiler	HFT 2	HTF 3	Booster Station
Nitrogen Oxides	mg/m <sup>3</sup>	6 months	101 <b>(500)</b>	129 <b>(500)</b>	983 <b>(2000)</b>	259 <b>(2000)</b>	Not Operational at time of testing	129 <b>(2000)</b>
Sulphur Dioxide	mg/m <sup>3</sup>	6 months	<14	<15	520	<10	as above	<17
Sulphur Trioxide	mg/m <sup>3</sup>	6 months	<3.2 <b>(100)</b>	<4.1 <b>(100)</b>	23 <b>(100)</b>	53 <b>(100)</b>	as above	11 <b>(100)</b>
Total Solid Particles	mg/m <sup>3</sup>	6 months	2.8 <b>(100)</b>	3.5 <b>(100)</b>	56 <b>(100)</b>	3.2 <b>(100)</b>	as above	2.2 <b>(100)</b>

Parameter	Units	Frequency	EPL Point 10	EPL Point 11
Stack ID			Creosote Reboiler	Tar Reboiler
Nitrogen Oxides	mg/m <sup>3</sup>	6 months	803 <b>(2000)</b>	755 <b>(2000)</b>
PM <sub>10</sub>	mg/m <sup>3</sup>	6 months	2.5	7.9
PM <sub>2.5</sub>	mg/m <sup>3</sup>	6 months	0.37	1.2
Sulphur Dioxide	mg/m <sup>3</sup>	3 months	320	280
Sulphur Trioxide	mg/m <sup>3</sup>	3 months	31 <b>(100)</b>	19 <b>(100)</b>
Total Solid Particles	mg/m <sup>3</sup>	6 months	37 <b>(100)</b>	64 <b>(100)</b>

Note: EPL Limit in Parenthesis

**Comments**

All results are within Environmental Protection Licence limits.

**Link to Environmental Protection Licence**

<https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=161523&SYSUID=1&LICID=2156>