



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

Address: **Woodstock Street Mayfield NSW 2304**

EPL No.: **2156**

Date Results Obtained: **06/08/2021**

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

Parameter	Units	Frequency	EPL Point 8	EPL Point 9A	EPL Point 9B	EPL Point 10	EPL Point 11	EPL Point 12	EPL 13	EPL 15
Stack ID			611H	Boiler 1	Boiler 2	Creosote Reboiler	Tar Reboiler	Naphthalene Reboiler	HTF 2	HTF 1
Benzene	mg/m <sup>3</sup>	3 months	36.3	N/A	N/A	<0.0283	<0.0373	<0.0307	<0.0195	N/A
Hydrogen Sulphide	mg/m <sup>3</sup>	6 months	<2.11 (5)	N/A	N/A	1.49	3.14	1.81	0.753	N/A
Naphthalene	mg/m <sup>3</sup>	3 months	8.51	N/A	N/A	0.0169	0.0126	0.031	0.0135	N/A
Polycyclic Aromatic Hydrocarbons	mg/m <sup>3</sup>	3 months	23.98	N/A	N/A	0.0236	0.0173	0.0336	0.016	N/A
Volatile Organic Compounds	mg/m <sup>3</sup>	3 months	103.2	N/A	N/A	<0.707	<0.932	<0.768	<0.488	N/A
Volatile Organic Compounds as n-propane equivalent	mg/m <sup>3</sup>	3 months	50.5	N/A	N/A	<0.362	<0.477	<0.393	<0.250	N/A
Temperature	°C	6 months	17	184	167	401	309	426	448	263
Velocity	m/s	6 months	2.62	3	2.97	10.7	6.4	8.62	6.11	3.85
Volumetric Flowrate	m <sup>3</sup> /sec	6 months	0.31	0.93	0.92	1.5	1.03	1.15	0.6	0.44

Parameter	Units	Frequency	EPL Point 9A	EPL Point 9B	EPL Point 12	EPL Point 13	EPL Point 15
Stack ID			Boiler 1	Boiler 2	Naphthalene Reboiler	HTF 2	HTF 1
Nitrogen Oxides	mg/m <sup>3</sup>	6 months	172 <b>(500)</b>	174 <b>(500)</b>	1785 <b>(2000)</b>	389 <b>(2000)</b>	256 <b>(2000)</b>
Sulphur Dioxide	mg/m <sup>3</sup>	6 months	<1.67	<1.71	113	37	2.47
Sulphur Trioxide	mg/m <sup>3</sup>	6 months	<2.16 <b>(100)</b>	<2.97 <b>(100)</b>	39 <b>(100)</b>	19 <b>(100)</b>	4.5 <b>(100)</b>
Total Solid Particles	mg/m <sup>3</sup>	6 months	<4.32 <b>(100)</b>	<5.94 <b>(100)</b>	26.7 <b>(100)</b>	<2.69 <b>(100)</b>	<2.14 <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	1148 <b>(2000)</b>	1022 <b>(2000)</b>
PM <sub>10</sub>	mg/m <sup>3</sup>	6 months	8.0	7.17
PM <sub>2.5</sub>	mg/m <sup>3</sup>	6 months	1.1	3.58
Sulphur Dioxide	mg/m <sup>3</sup>	3 months	158	132
Sulphur Trioxide	mg/m <sup>3</sup>	3 months	24 <b>(100)</b>	52 <b>(100)</b>
Total Solid Particles	mg/m <sup>3</sup>	6 months	15 <b>(100)</b>	9.6 <b>(100)</b>

Note: EPL Limits in Parenthesis

#### **Comments**

All results are within Environmental Protection Licence limits.

#### **Link to Environmental Protection Licence**

<https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=210741&SYSUID=1&LICID=2156>