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

Address: **Woodstock Street Mayfield NSW 2304**

EPL No.: **2156**

Date Results Obtained: **31/07/2013**

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		Sampled	Pollutant	Measurement	Limits	Units	Exceedance
Point	**1**						
Description	Discharge stack from fume scrubber indicated as T-111H	08/06/2013	Hydrogen Sulphide	<1.8	**5**	mg/m^3	
Point	**2**						
Description	Discharge stack from fume scrubber indicated as T-311H	N/A	Hydrogen Sulphide	Redundant	**5**	mg/m^3	
Point	**3**						
Description	Discharge stack from fume scrubber indicated as T-414H	08/06/2013	Hydrogen Sulphide	<1.8	**5**	mg/m^3	
Point	**4**						
Description	Discharge stack from fume scrubber indicated as T-518H	08/06/2013	Hydrogen Sulphide	<1.8	**5**	mg/m^3	
Point	**5**						
Description	Discharge stack from fume scrubber indicated as T-711H	08/06/2013	Hydrogen Sulphide	<1.8	**5**	mg/m^3	
Point	**8**						
Description	Discharge stack from fume scrubber indicated as T-611H	08/06/2013	Hydrogen Sulphide	<1.8	**5**	mg/m^3	

		Sampled	Pollutant	Measurement	Limits	Units	Exceedance
Point	9a	15/06/2013	Total Oxides of Nitrogen	105	2500	mg/m^3	
Description	Discharge stack from Boiler number 1		Sulphur Dioxide	<14	1000	mg/m^3	
Fuel	Natural Gas		Sulphur Trioxide	<2.8	100	mg/m^3	
			Total Solid Particles	3	50	mg/m^3	
Point	9b	15/06/2013	Total Oxides of Nitrogen	1063	2500	mg/m^3	
Description	Discharge stack from Boiler number 2		Sulphur Dioxide	360	1000	mg/m^3	
Fuel	Fuel Oil		Sulphur Trioxide	20	100	mg/m^3	
			Total Solid Particles	0.97	50	mg/m^3	
Point	10	12/06/2013	Total Oxides of Nitrogen	571	500	mg/m^3	Y
Description	Discharge stack from Creosote Tubeheater indicated as E116		Sulphur Dioxide	280	1000	mg/m^3	
Fuel	Fuel Oil		Sulphur Trioxide	21	100	mg/m^3	
			Total Solid Particles	4.2	50	mg/m^3	
Point	11	15/06/2013	Total Oxides of Nitrogen	53	350	mg/m^3	
Description	Discharge stack from Tar Tubeheater indicated as E106		Sulphur Dioxide	<19	1000	mg/m^3	
Fuel	Natural Gas		Sulphur Trioxide	60	100	mg/m^3	
			Total Solid Particles	<0.35	50	mg/m^3	

		Sampled	Pollutant	Measurement	Limits	Units	Exceedance
Point	12	12/06/2013	Total Oxides of Nitrogen	415	350	mg/m^3	Y
Description	Discharge stack from Naphthalene Tubeheater indicated as E309		Sulphur Dioxide	280	1000	mg/m^3	
Fuel	Natural Gas		Sulphur Trioxide	130	100	mg/m^3	Y
			Total Solid Particles	0.57	50	mg/m^3	
Point	13	15/06/2013	Total Oxides of Nitrogen	118	350	mg/m^3	
Description	Discharge stack from Number 2 heater indicated as Stack No.2		Sulphur Dioxide	<17	1000	mg/m^3	
Fuel	Natural Gas		Sulphur Trioxide	<3.4	100	mg/m^3	
			Total Solid Particles	1.7	50	mg/m^3	
Point	14		Not in service	N/A			
Description	Discharge stack from Number 3 heater indicated as Stack No.3						
Fuel	Not in service						
Point	15	15/06/2013	Total Oxides of Nitrogen	132	350	mg/m^3	
Description	Discharge stack from Booster Pumping Station indicated as Stack No.1		Sulphur Dioxide	<12	1000	mg/m^3	
Fuel	Natural Gas		Sulphur Trioxide	23	100	mg/m^3	
			Total Solid Particles	4.1	50	mg/m^3	

Exceedances

Point 12 (Discharge from Naphthalene Tubeheater) Sulphur Trioxide measured at 130 mg/m^3 with a limit of 100 mg/m^3. This Tubeheater takes fume from the Tar and Naphthalene plants and also contains fume from the Steam Stripper. The high incidence of Sulphur Trioxide is possibly the result of the combustion of an abnormal level of Hydrogen Sulphide which was extracted by the fume systems. This will be monitored going forward. The slight exceedances of Total Oxides of Nitrogen from Points 10 and 12 (Discharges from Naphthalene and Creosote Tubeheaters) can possibly be the result of running the plant slowly during the time of testing due to low stocks of raw materials at the time. The lower combustion rates can lead to slightly lower temperatures, higher residence times and higher excess oxygen, which can promote Oxides of Nitrogen. Running slowly is not normal operation.

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