

**FINAL REPORT: SOURCE EMISSIONS TESTING -
SUMMER ROUND 2017**

Table 4.4 Source Testing Results - Power Boiler - Particulate Matter

Parameter	Test #1	Test #2	Test #3	Average	Stack Emission Limit (Table 5 of Approval)
Test Date	Sept. 26, 2017	Sept. 26, 2017	Sept. 27, 2017	-	-
Steam Load (klb/hr)	130.7	132.1	158.3	140.4	-
Test Start	9:25	14:45	14:30	-	-
Test Duration (min)	120	120	120	120	-
Volume of Gas Sampled (Rm ³)	1.08	1.17	1.41	1.22	-
Average Isokineticity (%)	102	103	103	102	-
Total Volume of Moisture Collected in Impingers (mL)	204	220	216	213	-
Particulate Matter from Filter and Probe Wash (mg)	74.6	59.6	160	98	-
Particulate Matter from Impingers (mg)	0.7	1.2	0.3	0.7	-
Exhaust Gas Parameters					
Exhaust Gas Temperature (°C)	56	59	55	57	-
Exhaust Gas Moisture Content (%)	20.5	20.4	17.2	19.4	-
Exhaust Gas Velocity (m/s)	14.0	14.7	16.7	15.1	-
Exhaust Gas Volumetric Flow Rate (Rm ³ /s)	28.8	30.9	36.8	32.2	-
Oxygen - O ₂ (%)	10.0	10.9	10.1	10.3	-
Carbon Dioxide - CO ₂ (%)	8.5	7.9	8.4	8.3	-
Total Particulate Matter - PM					
Concentration at 11% O ₂ (mg/Rm ³)	62.7	50.3	104	72.3	150
Emission Rate (kg/hr)	7.18	5.67	15.0	9.30	-
Emission Rate (g/s)	1.99	1.58	4.18	2.58	-
Legend:					
°C Degrees Celsius.					
m/s Metres per second.					
Rm ³ /s Dry cubic metres per second at reference conditions (25°C and 101.3 kPa).					
mg/Rm ³ Milligrams per dry cubic metre at reference conditions (25°C and 101.3 kPa).					
kg/hr Kilograms per hour.					
g/s Grams per second					
klb/hr Thousand pounds per hour.					