



EPL No:	12555
Entity Name:	Cleanaway Refiners Pty Ltd
Site:	41 Kyle Street, Rutherford NSW 2320
Monitoring Frequency:	Annually & 6 Monthly (Point 24 only)
Link to NSW EPA Register:	Click Here

Discharge & Monitoring Point 2

Discharge to air Air emissions monitoring, 3.0 MW Boiler stack identified as "DP2 3MW & DP3 0.2MW Boilers" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Pollutant	Unit of measure	EPL Limit	No. of samples required per reporting period *	No. of samples collected and analysed to date *	Sample 1	Exceedance (Yes / No)	Lowest sample value *	Mean of sample *	Highest sample value *	
Dry gas density	kilograms per cubic metre	-	1	1	1.32	No	1.32	1.32	1.32	
Moisture	percent	-	1	1	9.78	No	9.78	9.78	9.78	
Molecular weight of stack gases	grams per gram mole	-	1	1	29.6	No	29.6	29.6	29.6	
Nitrogen Oxides (@8% O2)	milligrams per cubic metre	350	1	1	104	No	104	104	104	
Oxygen (O2)	percent	-	1	1	5.42	No	5.42	5.42	5.42	
Solid Particles (@8% O2)	milligrams per cubic metre	10	1	1	2.71	No	2.71	2.71	2.71	
Temperature	degrees Celsius	-	1	1	205	No	205	205	205	
Velocity	metres per second	-	1	1	4.48	No	4.48	4.48	4.48	
Volatile organic compounds (@8% normalised cubic metres per second	milligrams per cubic metre	10	1	1	< 2.57	No	< 2.57	< 2.57	< 2.57	
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.761	No	0.761	0.761	0.761	
					17/01/2023	16/01/2023	21/11/2022			
					Published Date	Report Date	Sample Date			

Discharge & Monitoring Point 3

Discharge to air Air emissions monitoring, 0.2 MW Boiler stack identified as "DP2 3MW & DP3 0.2MW Boilers" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Pollutant	Unit of measure	EPL Limit	No. of samples required per reporting period *	No. of samples collected and analysed to date *	Sample 1	Exceedance (Yes / No)	Lowest sample value *	Mean of sample *	Highest sample value *	
Dry gas density	kilograms per cubic metre	-	1	1	1.31	No	1.31	1.31	1.31	
Moisture	percent	-	1	1	7.28	No	7.28	7.28	7.28	
Molecular weight of stack gases	grams per gram mole	-	1	1	29.5	No	29.5	29.5	29.5	
Nitrogen Oxides (@8% O2)	milligrams per cubic metre	350	1	1	126	No	126	126	126	
Oxygen (O2)	percent	-	1	1	7.69	No	7.69	7.69	7.69	
Solid Particles (@8% O2)	milligrams per cubic metre	10	1	1	3.43	No	3.43	3.43	3.43	
Temperature	degrees Celsius	-	1	1	255	No	255	255	255	
Velocity	metres per second	-	1	1	6.36	No	6.36	6.36	6.36	
Volatile organic compounds (@8% normalised cubic metres per second	milligrams per cubic metre	10	1	1	<2.22	No	<2.22	<2.22	<2.22	
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.0954	No	0.0954	0.0954	0.0954	
					17/01/2023	16/01/2023	21/11/2022			
					Published Date	Report Date	Sample Date			

Discharge & Monitoring Point 5

Air emissions monitoring, Emissions from light ends scrubber (vapour recovery unit) identified as "DPS Light Ends Scrubber" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Pollutant	Unit of measure	EPL Limit	No. of samples required per reporting period *	No. of samples collected and analysed to date *	Sample 1	Exceedance (Yes / No)	Lowest sample value *	Mean of sample *	Highest sample value *	
Moisture	percent	-	1	1	2.47	No	2.47	2.47	2.47	
Odour	OU	-	1	1	1215	No	1215	1215	1215	
Polycyclic aromatic hydrocarbons	milligrams per cubic metre	-	1	1	0.146	No	0.146	0.146	0.146	
Temperature	degrees Celsius	-	1	1	27.7	No	27.7	27.7	27.7	
Volatile organic compounds	milligrams per cubic metre	20	1	1	<2.75	No	<2.75	<2.75	<2.75	
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.051	No	0.051	0.051	0.051	
					17/01/2023	16/01/2023	21/11/2022			
					Published Date	Report Date	Sample Date			

Discharge & Monitoring Point 19

Discharge to Air, Stack serving the fired heaters identified as "DP19 Fired Heaters" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Pollutant	Unit of measure	EPL Limit	No. of samples required per reporting period*	No. of samples collected and analysed to date *	Sample 1	Exceedance (Yes / No)	Lowest sample value *	Mean of sample *	Highest sample value *	
Dry gas density	kilograms per cubic metre	-	1	1	1.32	No	1.32	1.32	1.32	
Formaldehyde (@ 8% O2)	milligrams per cubic metre	-	1	1	0.816	No	0.816	0.816	0.816	
Hydrogen Sulphide (@ 8% O2)	milligrams per cubic metre	5	1	1	<0.16	No	<0.16	<0.16	<0.16	
Moisture	percent	-	1	1	19.3	No	19.3	19.3	19.3	
Molecular weight of stack gases	grams per gram mole	-	1	1	29.5	No	29.5	29.5	29.5	
Nitrogen Oxides (@ 8% O2)	milligrams per cubic metre	350	1	1	159	No	159	159	159	
Odour	OU	-	1	1	3036	No	3036	3036	3036	
Oxygen (O2)	percent	-	1	1	6.94	No	6.94	6.94	6.94	
Solid Particles (@ 8% O2)	milligrams per cubic metre	50	1	1	5.94	No	5.94	5.94	5.94	
Sulfur Dioxide (@ 8% O2)	milligrams per cubic metre	1360	1	1	<0.877	No	<0.877	<0.877	<0.877	
Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	100	1	1	22.6	No	22.6	22.6	22.6	
Temperature	degrees Celsius	-	1	1	92.4	No	92.4	92.4	92.4	
Velocity	metres per second	-	1	1	1.76	No	1.76	1.76	1.76	
Volatile organic compounds (@ 8%	milligrams per cubic metre	10	1	1	<1.43	No	<1.43	<1.43	<1.43	
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.303	No	0.303	0.303	0.303	
					17/01/2023	16/01/2023	23/11/2022			
					Published Date	Report Date	Sample Date			

Discharge & Monitoring Point 20

Discharge to Air, Hydrogen Reformer Burner identified as "DP20 Reformer" as shown in diagram provided to the EPA on 23/10/2019. EPA reference DOC19/922847.

Pollutant	Unit of measure	EPL Limit	No. of samples required per reporting period*	No. of samples collected and analysed to date *	Sample 1	Exceedance (Yes / No)	Lowest sample value *	Mean of sample *	Highest sample value *	
Dry gas density	kilograms per cubic metre	-	1	1	1.33	No	1.33	1.33	1.33	
Hydrogen Sulphide (@4% O2)	milligrams per cubic metre	-	1	1	<2.38	No	<2.38	<2.38	<2.38	
Moisture	percent	-	1	1	14	No	14	14	14	
Molecular weight of stack gases	grams per gram mole	-	1	1	10.1	No	10.1	10.1	10.1	
Nitrogen Oxides (@4% O2)	milligrams per cubic metre	350	1	1	118	No	118	118	118	
Odour	OU	-	1	1	2472	No	2472	2472	2472	
Oxygen (O2)	percent	-	1	1	8.92	No	8.92	8.92	8.92	
Solid Particles (@4% O2)	milligrams per cubic metre	10	1	1	<2.97	No	<2.97	<2.97	<2.97	
Temperature	degrees Celsius	-	1	1	784	No	784	784	784	
Velocity	metres per second	-	1	1	10.1	No	10.1	10.1	10.1	
Volatile organic compounds (@4%	milligrams per cubic metre	10	1	1	<2.25	No	<2.25	<2.25	<2.25	
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.225	No	0.225	0.225	0.225	
					17/02/2023	16/01/2023	24/11/2022			
					Published Date	Report Date	Sample Date			

Discharge & Monitoring Point 24

Discharge to air Air emissions monitoring, Stack discharge point serving the Mobile Oil Regeneration Plant

Pollutant	Unit of measure	EPL Limit	No. of samples required per reporting period *	No. of samples collected and analysed to date *	Sample 1	Exceedance (Yes / No)	Sample 2	Exceedance (Yes / No)	Lowest sample value *	Mean of sample *	Highest sample value *
Carbon monoxide	milligrams per cubic metre	125	2	2	32.2	No	21.1	No	21.1	26.65	32.2
Nitrogen Oxides	milligrams per cubic metre	350	2	2	51.7	No	67.6	No	51.7	59.65	67.6
Oxygen	percent	-	2	2	12.5	No	14.4	No	12.5	13.45	14.4
Sulfur dioxide	milligrams per cubic metre	100	2	2	51.7	No	<2.86	No	51.7	51.7	51.7
Temperature	degrees Celsius	-	2	2	391	No	419	No	391	405	419
Total Solid Particles	milligrams per cubic metre	10	2	2	<3.95	No	<1.55	No	0	#DIV/0!	0
Velocity	metres per second	-	2	2	41.2	No	52	No	41.2	46.6	52
Volatile organic compounds	milligrams per cubic metre	20	2	2	3.28	No	<0.460	No	3.28	3.28	3.28
Volumetric flowrate	normalised cubic metres per second	-	2	2	0.0315	No	0.04	No	0.0315	0.03575	0.04
					30/05/2023	24/05/2023	8/05/2023		17/01/2023	16/01/2023	21/11/2022
					Published Date	Report Date	Sample Date		Published Date	Report Date	Sample Date