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	9.1	No	9.1	9.1	9.1
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	98.5	No	98.5	98.5	98.5
Oxygen (O2)	percent	-	1	1	4.89	No	4.89	4.89	4.89
Solid Particles (@8% O2)	milligrams per cubic metre	10	1	1	<1.88	No	0	0	0
Temperature	degrees Celsius	-	1	1	188	No	188	188	188
Velocity	metres per second	-	1	1	4.32	No	4.32	4.32	4.32
Volatile organic compounds (@8%	milligrams per cubic metre	10	1	1	0.958	No	0.958	0.958	0.958
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.767	No	0.767	0.767	0.767

Published Date	Report Date	Sample Date
25/01/2024	23/01/2024	9/11/2023

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	1.32	No	1.32	1.32	1.32
Moisture	percent	-	1	1	9.62	No	9.62	9.62	9.62
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	120	No	120	120	120
Oxygen (O2)	percent	-	1	1	7.17	No	7.17	7.17	7.17
Solid Particles (@8% O2)	milligrams per cubic metre	10	1	1	4.59	No	4.59	4.59	4.59
Temperature	degrees Celsius	-	1	1	237	No	237	237	237
Velocity	metres per second	-	1	1	6.43	No	6.43	6.43	6.43
Volatile organic compounds (@8%	milligrams per cubic metre	10	1	1	0.74	No	0.74	0.74	0.74
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.0973	No	0.0973	0.0973	0.0973

Published Date	Report Date	Sample Date
25/01/2024	23/01/2024	9/11/2023

Discharge & Monitoring Point 5

Air emissions monitoring, Emissions from light ends scrubber (vapour recovery unit) identified as "DP5 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	2.38	No	2.38	2.38	2.38
Odour	OU	-	1	1	1541	No	1541	1541	1541
Polycyclic aromatic hydrocarbons	milligrams per cubic metre	-	1	1	0.00289	No	0.00289	0.00289	0.00289
Temperature	degrees Celsius	-	1	1	26.2	No	26.2	26.2	26.2
Volatile organic compounds	milligrams per cubic metre	20	1	1	2.05	No	2.05	2.05	2.05
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.048	No	0.048	0.048	0.048

Published Date	Report Date	Sample Date
25/01/2024	23/01/2024	7/11/2023

Discharge & Monitoring Point 19

Discharge to Air, Stack 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	1.33	No	1.33	1.33	1.33
Formaldehyde (@ 8% O2)	milligrams per cubic metre	-	1	1	0.257	No	0.257	0.257	0.257
Hydrogen Sulfide (@ 8% O2)	milligrams per cubic metre	5	1	1	0.471	No	0.471	0.471	0.471
Moisture	percent	-	1	1	14.7	No	14.7	14.7	14.7
Molecular weight of stack gases	grams per gram mole	-	1	1	29.7	No	29.7	29.7	29.7
Nitrogen Oxides (@ 8% O2)	milligrams per cubic metre	350	1	1	162	No	162	162	162
Odour	OU	-	1	1	3,467	No	3467	3467	3467
Oxygen (O2)	percent	-	1	1	6.15	No	6.15	6.15	6.15
Solid Particles (@ 8% O2)	milligrams per cubic metre	50	1	1	48.9	No	48.9	48.9	48.9
Sulfur Dioxide (@ 8% O2)	milligrams per cubic metre	1360	1	1	0.651	No	0.651	0.651	0.651
Sulfuric acid mist and sulfur trioxide (as SO3) (@ 8% O2)	milligrams per cubic metre	100	1	1	71.2	No	71.2	71.2	71.2
Temperature	degrees Celsius	-	1	1	112	No	112	112	112
Velocity	metres per second	-	1	1	1.9	No	1.9	1.9	1.9
Volatile organic compounds (@ 8% O2)	milligrams per cubic metre	10	1	1	0.0133	No	0.0133	0.0133	0.0133
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.326	No	0.326	0.326	0.326

25/01/2024	23/01/2024	7-8/11/2023
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	1.35	No	1.35	1.35	1.35
Hydrogen Sulfide (@4% O2)	milligrams per cubic metre	-	1	1	0.75	No	0.75	0.75	0.75
Moisture	percent	-	1	1	14.9	No	14.9	14.9	14.9
Molecular weight of stack gases	grams per gram mole	-	1	1	30.2	No	30.2	30.2	30.2
Nitrogen Oxides (@4% O2)	milligrams per cubic metre	350	1	1	107	No	107	107	107
Odour	OU	-	1	1	2,016	No	2016	2016	2016
Oxygen (O2)	percent	-	1	1	5.44	No	5.44	5.44	5.44
Solid Particles (@4% O2)	milligrams per cubic metre	10	1	1	2.07	No	2.07	2.07	2.07
Temperature	degrees Celsius	-	1	1	750	No	750	750	750
Velocity	metres per second	-	1	1	10	No	10	10	10
Volatile organic compounds (@4% O2)	milligrams per cubic metre	10	1	1	2.19	No	2.19	2.19	2.19
Volumetric flowrate	normalised cubic metres per second	-	1	1	0.229	No	0.229	0.229	0.229

25/01/2024	23/01/2024	7/11/2023
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	1	11.3	No	Sampling to occur during the 2023/2024 Reporting Period.	N/A	11.3	11.3	11.3
Nitrogen Oxides	milligrams per cubic metre	350	2	1	13.3	No		N/A	13.3	13.3	13.3
Oxygen	percent	-	2	1	15.5	No		N/A	15.5	15.5	15.5
Sulfur dioxide	milligrams per cubic metre	100	2	1	13.3	No		N/A	13.3	13.3	13.3
Temperature	degrees Celsius	-	2	1	403	No		N/A	403	403	403
Total Solid Particles	milligrams per cubic metre	10	2	1	<1.99	No		N/A	0	0	0
Velocity	metres per second	-	2	1	43.4	No		N/A	43.4	43.4	43.4
Volatile organic compounds	milligrams per cubic metre	20	2	1	0.602	No		N/A	0.602	0.602	0.602
Volumetric flowrate	normalised cubic metres per second	-	2	1	0.0331	No		N/A	0.0331	0.0331	0.0331

25/01/2024	23/01/2024	29/11/2023	N/A	N/A	N/A
Published Date	**Report Date**	**Sample Date**	**Published Date**	**Report Date**	**Sample Date**

Discharge & Monitoring Point 25

Discharge to Air, Location to be confirmed on stack commissioning. Stack to be located adjacent to EPA identification no. 19.

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	0	Sampling to occur during the 2023/2024 Reporting Period. Stack not yet commissioned.	N/A	N/A	N/A	N/A
Formaldehyde (@ 8% O2)	milligrams per cubic metre	-	1	0		N/A	N/A	N/A	N/A
Hydrogen Sulfide (@ 8% O2)	milligrams per cubic metre	5	1	0		N/A	N/A	N/A	N/A
Moisture	percent	-	1	0		N/A	N/A	N/A	N/A
Molecular weight of stack gases	grams per gram mole	-	1	0		N/A	N/A	N/A	N/A
Nitrogen Oxides (@ 8% O2)	milligrams per cubic metre	350	1	0		N/A	N/A	N/A	N/A
Odour	OU	-	1	0		N/A	N/A	N/A	N/A
Oxygen (O2)	percent	-	1	0		N/A	N/A	N/A	N/A
Solid Particles (@ 8% O2)	milligrams per cubic metre	50	1	0		N/A	N/A	N/A	N/A
Sulfur Dioxide (@ 8% O2)	milligrams per cubic metre	1360	1	0		N/A	N/A	N/A	N/A
Sulfuric acid mist and sulfur trioxide (as SO3) (@ 8% O2)	milligrams per cubic metre	100	1	0		N/A	N/A	N/A	N/A
Temperature	degrees Celsius	-	1	0		N/A	N/A	N/A	N/A
Velocity	metres per second	-	1	0		N/A	N/A	N/A	N/A
Volatile organic compounds (@ 8% O2)	milligrams per cubic metre	10	1	0		N/A	N/A	N/A	N/A
Volumetric flowrate	normalised cubic metres per second	-	1	0		N/A	N/A	N/A	N/A

N/A	N/A	N/A
Published Date	**Report Date**	**Sample Date**