



EPL No:	12555
Entity Name:	Cleanaway Refiners Pty Ltd
Site:	11 Kyle Street, Rutherford NSW 2320
Monitoring Frequency:	Annually
Link to NSW EPA Register:	Click Here

			Discharge Point								
Date	Parameter	Unit of Measure	Assessment Criteria	DP2 - 3MW Boiler	DP3 - 0.2MW Boiler	Assessment Criteria	DP 5 - Light end Scrubber	Assessment Criteria	DP 19 - Fired Heater	Assessment Criteria	DP 20 - Reformer
Dec-19	Temperature	Degrees Celsius		193	257		23.1		109		815
	Oxygen	%		6.31	3.88		20.8		5.65		7.2
	Carbon dioxide	%		6.86	10.3		0.02		8.39		10.1
	Moisture	%		9.39	11.3		2.97		11.1		17
	Dry gas density	kg/m3		1.31	1.33		1.29		1.32		1.33
	Molecular weight of dry stack gases	g/g-mol		29.3	29.8		28.8		29.6		29.9
	Velocity	m/s		3.19	10.5		3.73		3.1		13.5
	Volumetric flowrate	m3/s		0.563	0.151		0.117		0.556		0.263
	VOC as propane	mg/m3		<1.84	<1.85	20	<1.84		<1.99		<1.81
	VOC as propane (@ 8% O2)	mg/m3	10	<1.63	<1.4		-	10	<1.68	10	<2.24
	Hydrogen sulfide	mg/m3		<1.84	<1.84		<1.82		<1.82		<1.82
	Hydrogen sulfide (@ 8% O2)	mg/m3		<1.63	<1.39		-	5	<1.51		<2.22
	Nitrogen Oxides	mg/m3		53.2	148		-		105		90
	Nitrogen Oxides (@ 8% O2)	mg/m3	350	47	112		-	350	89	350	112
	Solid Particles	mg/m3		2.77	3.39		2.87		23.1		3.52
	Solid Particles (@ 8% O2)	mg/m3	10	3.24	2.64		-	50	19.9	10	4.44
	Formaldehyde	mg/m3		<1.86	3.71		<1.84		5.44		-
	Formaldehyde (@ 8% O2)	mg/m3		<1.64	2.81		-		4.68		-
	Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3			1.7	5.02		0.287		3.1	

Sulfuric acid mist and sulfur trioxide (as SO3) (@ 8% O2)	mg/m3		1.5	3.8		-	100	2.67		1.63
Sulphur dioxide	mg/m3		13	15.1		3.14		36.5		11.4
Sulphur dioxide (@ 8% O2)	mg/m3		11.5	11.5		-	1360	31.4		14.3
Fine Particles (PM10)	mg/m3		<2.7	<3.39		<2.87		23.1		<3.52
Fine Particles (PM10) (@ 8% O2)	mg/m3		<3.24	<2.64		-		19.9		<4.44
Benzene	mg/m3		<0.0737	<0.0740		<0.0736		<0.724		<0.724
Benzene (@ 8% O2)	mg/m3		<0.0652	<0.0561		-		<0.611		<0.896
Benzo(a)pyrene (Equivalent - total)	mg/m3		-	-		0.000594		0.0000314		0.000514
Benzo(a)pyrene (Equivalent - total)	mg/m3		-	-		-		0.000027		0.00064
Odour	OU		-	-		1266		2891		2311
Total PAHs - Lower	mg/m3		-	-		0.0356		0.00136		0.00869
Total PAHs - Lower (@ 8% O2)	mg/m3		-	-		-		0.00117		0.0108
Arsenic	mg/m3		-	-		-		<0.00942		<0.00971
Arsenic (@ 8% O2)	mg/m3		-	-		-		<0.00788		<0.000901
Lead	mg/m3		-	-		-		0.015		0.0292
Lead (@ 8% O2)	mg/m3		-	-		-		0.0125		0.0355
Mercury	mg/m3		-	-		-		0.00155		0.000927
Mercury (@ 8% O2)	mg/m3		-	-		-		0.0013		0.00113