Annual Return

DELTA ELECTRICITY

NSW GOVERNMENT | Office of Environment & Heritage

B Monitoring and Complaints Summary

B1 Number of Pollution Complaints

Number of complaints recorded by the licensee during the reporting period. **If no complaints were received enter nil in the attached box, otherwise complete the table below.**	Nil

Pollution Complaint Category	Number of Complaints
Air	
Water	
Noise	
Waste	
Other	

B2 Concentration Monitoring Summary

For each monitoring point identified in your licence complete all the details for each pollutant listed in the tables provided below.

If concentration monitoring is **not** required by your licence, **no tables** will appear below.
Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

Discharge & Monitoring Point 1

Discharge to air - GT Stack 1, Stack from gas turbine 1 Stack Height 35 Metres

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent	1	1	5.1	5.1	5.1

Annual Return

DELTA ELECTRICITY

Dry gas density	kilograms per cubic metre	1	1	1.3	1.3	1.3
Moisture content	percent	1	1	6.0	6.0	6.0
Molecular weight of stack gases	grams per gram mole	1	1	29.1	29.1	29.1
Nitrogen dioxide *	milligrams per cubic metre	Continuous	29	27.3	43.12	62.9
Oxygen (O2)	percent	1	1	15.1	15.1	15.1
Temperature	Celsius	1	1	489.4	489.4	489.4
Velocity	metres per second	1	1	38	38	38
Volumetric flowrate	cubic metres per second	1	1	460	460	460

*Results are for Nitrogen Oxides (total oxides of nitrogen) as opposed to Nitrogen Dioxide. Stack emission testing results taken from Point 1 on 8/2/12 showed that Nitrogen Oxides comprised 8% NO2 by mass. Results reported as 1 hour block averages based on the Protection of the Environment Operations (Clean Air) Regulation 2010, Schedule 5. Results also include periods of firing on distillate including the highest sample value of Monitoring Point 1.

Discharge & Monitoring Point 2

Discharge to air - GT Stack 2, Stack from gas turbine 2 Stack Height 35 Metres

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent	1	1	5.1	5.1	5.1
Dry gas density	kilograms per cubic metre	1	1	1.3	1.3	1.3
Moisture content	percent	1	1	6.1	6.1	6.1
Molecular weight of stack gases	grams per gram mole	1	1	29.1	29.1	29.1
Nitrogen dioxide *	milligrams per cubic metre	Continuous	32	28.0	35.0	43.7

*Results are for Nitrogen Oxides (total oxides of nitrogen) as opposed to Nitrogen Dioxide. Stack emission testing results taken from Point 2 on 8/2/12 showed that Nitrogen Oxides comprised 1% NO2 by mass. Results reported as 1 hour block averages based on the Protection of the Environment Operations (Clean Air) Regulation 2010, Schedule 5.

Annual Return

DELTA ELECTRICITY

Oxygen (O2)	percent	1	1	15.2	15.2	15.2
Temperature	Celsius	1	1	487.5	487.5	487.5
Velocity	metres per second	1	1	37	37	37
Volumetric flowrate	cubic metres per second	1	1	450	450	450

Discharge & Monitoring Point 3

Discharge to air - GT Stack 3, Stack from Gas Turbine 3, Stack Height 35 Metres

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent	1	1	5.1	5.1	5.1
Dry gas density	kilograms per cubic metre	1	1	1.3	1.3	1.3
Moisture content	percent	1	1	6.1	6.1	6.1
Molecular weight of stack gases	grams per gram mole	1	1	29.1	29.1	29.1
Nitrogen dioxide *	milligrams per cubic metre	Continuous	30	17.5	28.27	39.3
Oxygen (O2)	percent	1	1	15.2	15.2	15.2
Temperature	Celsius	1	1	492.4	492.4	492.4
Velocity	metres per second	1	1	36	36	36
Volumetric flowrate	cubic metres per second	1	1	430	430	430

*Results are for Nitrogen Oxides (total oxides of nitrogen) as opposed to Nitrogen Dioxide. Stack emission testing results taken from Point 3 on 9/2/12 showed that Nitrogen Oxides comprised 2% NO2 by mass. Results reported as 1 hour block averages based on the Protection of the Environment Operations (Clean Air) Regulation 2010, Schedule 5.

Annual Return

DELTA ELECTRICITY

NSW GOVERNMENT Office of Environment & Heritage

Discharge & Monitoring Point 4

Discharge to air - GT Stack 4, Stack from gas turbine 4 , stack height 35 metres

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent	1	1	5.1	5.1	5.1
Dry gas density	kilograms per cubic metre	1	1	1.3	1.3	1.3
Moisture content	percent	1	1	6.1	6.1	6.1
Molecular weight of stack gases	grams per gram mole	1	1	29.1	29.1	29.1
Nitrogen dioxide *	milligrams per cubic metre	Continuous	75	15.8	22.44	40.7
Oxygen (O2)	percent	1	1	15.2	15.2	15.2
Temperature	Celsius	1	1	488.6	488.6	488.6
Velocity	metres per second	1	1	35	35	35
Volumetric flowrate	cubic metres per second	1	1	430	430	430

*Results are for Nitrogen Oxides (total oxides of nitrogen) as opposed to Nitrogen Dioxide. Stack emission testing results taken from Point 4 on 9/2/12 showed that Nitrogen Oxides comprised 4% NO2 by mass. Results reported as 1 hour block averages based on the Protection of the Environment Operations (Clean Air) Regulation 2010, Schedule 5.

B3 Volume or Mass Monitoring Summary

For each monitoring point identified in your licence complete the details of the volume or mass monitoring indicated in the tables provided below.

If volume or mass monitoring is not required by your licence, **no tables** will appear below.

Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).