Vales Point Power Station Monthly Environmental Data Summary

LICENCE NO	761	http://www.epa.nsw.gov.au/prpoeoapp/
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	·
REPORTING PERIOD	July 2016	
ADDRESS	VALES POINT ROAD, MANNERING PARK NSW	



POINT 1	Discharge to waters. Cooling water outlet at Wyee Bay approximately 1000m west of the premises. Labelled VPOC on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
			Sample/Measurement	Samples Collected		Lowest Sample	Mean of	Highest Sample			Exceedance		
Month	Pollutant	Unit of Measure	Frequency	& Analysed	Date Sampled	Value	Samples	Value	EPL Limit	98.5% limit	(yes/no)	Comments	
July 2016	Chlorine (free residual)	milligrams per litre	Monthly	1	5/07/2016	0.05	0.05	0.05	0.2		No		
July 2016	Temperature	degrees celsius	Continuous	100%	July 2016	16.3	22.7	27.0	37.5	35	No	98.5% limit not exceeded for year to date	
July 2016	Oil and Grease	Visible	Continuous	100%	July 2016	NIL	NIL	NIL				No visible oil or grease detected during July 2016	

POINT 2	Discharge to waters. Discharge from the ash water recycle system to the cooling water outlet canal. Labelled VPADB on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
			Sample/Measurement	Samples Collected		Lowest Sample	Mean of	Highest Sample		Exceedance			
Month	Pollutant	Unit of Measure	Frequency	& Analysed	Date Sampled	Value	Samples	Value	EPL Limit	(yes/no)	Comments		
July 2016	Ammonia	milligrams per litre	Quarterly	1	5/07/2016	0.17	0.17	0.17					
July 2016	Cadmium	milligrams per litre	Quarterly	1	5/07/2016	<0.00021	<0.00021	<0.00021					
July 2016	Copper	milligrams per litre	Quarterly	1	5/07/2016	0.0022	0.0022	0.0022					
July 2016	Lead	milligrams per litre	Quarterly	1	5/07/2016	0.0012	0.0012	0.0012					
July 2016	Manganese	milligrams per litre	Quarterly	1	5/07/2016	0.0385	0.0385	0.0385					
July 2016	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	5/07/2016	0.03	0.03	0.03					
July 2016	Nitrogen (total)	milligrams per litre	Quarterly	1	5/07/2016	0.4	0.4	0.4					
July 2016	рН	pH	Monthly	1	5/07/2016	8.41	8.41	8.41	6.5 - 9.5	No			
July 2016	Phosphorus (total)	milligrams per litre	Monthly	1	5/07/2016	0.14	0.14	0.14					
July 2016	Reactive Phosphorus	milligrams per litre	Monthly	1	5/07/2016	0.09	0.09	0.09					
July 2016	Selenium	milligrams per litre	Quarterly	1	5/07/2016	0.0163	0.0163	0.0163					
July 2016	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	1	5/07/2016	0.4	0.4	0.4					
July 2016	Total Suspended Solids	milligrams per litre	Fortnightly	4	5, 5, 12, 18/07/2016	1	5.5	10	50	No			
July 2016	Zinc	milligrams per litre	Quarterly	1	5/07/2016	0.008	0.008	0.008					

POINT 4	Discharge to waters. Seepage from ash dam reha	bilitated area. Labelled VPADS	on plan of premises VX8373	351 15/11/13 DOC14/	1645 EF 13/2865						
			Sample/Measurement	Samples Collected		Lowest Sample	Mean of	Highest Sample		Exceedance	
Month	Pollutant	Unit of Measure	Frequency	& Analysed	Date Sampled	Value	Samples	Value	EPL Limit	(yes/no)	Comments
July 2016	Ammonia	milligrams per litre	Quarterly	1	5/07/2016	1.14	1.14	1.14			No discharge to Mannering Bay during April 2016
July 2016	Cadmium	milligrams per litre	Quarterly	1	5/07/2016	0.00047	0.00047	0.00047			No discharge to Mannering Bay during April 2016
July 2016	Copper	milligrams per litre	Quarterly	1	5/07/2016	<0.001	<0.001	< 0.001			No discharge to Mannering Bay during April 2016
July 2016	Lead	milligrams per litre	Quarterly	1	5/07/2016	<0.0002	< 0.0002	<0.0002			No discharge to Mannering Bay during April 2016
July 2016	Manganese	milligrams per litre	Quarterly	1	5/07/2016	0.0874	0.0874	0.0874			No discharge to Mannering Bay during April 2016
July 2016	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	5/07/2016	0.22	0.22	0.22			No discharge to Mannering Bay during April 2016
July 2016	Nitrogen (total)	milligrams per litre	Quarterly	1	5/07/2016	1.8	1.8	1.8			No discharge to Mannering Bay during April 2016
July 2016	pH	pH	Monthly	1	5/07/2016	8.07	8.07	8.07			No discharge to Mannering Bay during April 2016
July 2016	Phosphorus (total)	milligrams per litre	Monthly	1	5/07/2016	0.02	0.02	0.02			No discharge to Mannering Bay during April 2016
July 2016	Selenium	milligrams per litre	Quarterly	1	5/07/2016	<0.0021	<0.0021	<0.0021			No discharge to Mannering Bay during April 2016
July 2016	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	1	5/07/2016	1.6	1.6	1.6			No discharge to Mannering Bay during April 2016
July 2016	Total Suspended Solids	milligrams per litre	Monthly	1	5/07/2016	8	8	8	50	No	No discharge to Mannering Bay during April 2016
July 2016	Zinc	milligrams per litre	Quarterly	1	5/07/2016	< 0.005	<0.005	<0.005			No discharge to Mannering Bay during April 2016

			Sample/Measurement	Samples Collected		Lowest Sample	Mean of	Highest Sample		Exceedance	
Month	Pollutant	Unit of Measure	Frequency	& Analysed	Date Sampled	Value	Samples	Value	EPL Limit	(yes/no)	Comments
luly 2016	Ammonia	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Cadmium	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Copper	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Lead	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Manganese	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Nitrogen (total)	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	pH	pH	Daily for discharge >2 hrs						6.5 - 9.0		No discharge during July 2016
July 2016	Phosphorus (total)	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Selenium	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Total Kjeldahl Nitrogen	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016
July 2016	Total Suspended Solids	milligrams per litre	Daily for discharge >2 hrs						50		No discharge during July 2016
luly 2016	Zinc	milligrams per litre	Daily for discharge >2 hrs								No discharge during July 2016

POINT 11	NT 11 Discharge to air. Stack serving boiler unit 5, labelled point 11 on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865											
			Sample/Measurement	Samples Collected		Lowest Sample	Mean of	Highest Sample		Exceedance		
Month	Pollutant	Unit of Measure	Frequency	& Analysed	Date Sampled	Value	Samples	Value	EPL Limit	(yes/no)	Comments	
July 2016	Cadmium	milligrams per cubic metre	Yearly						1	No		
July 2016	Chlorine	milligrams per cubic metre	Yearly						200	No		
July 2016	Copper	milligrams per cubic metre	Yearly									
July 2016	Hydrogen chloride	milligrams per cubic metre	Yearly						100	No		
July 2016	Mercury	milligrams per cubic metre	Yearly						1	No		
July 2016	Moisture	percent	Yearly									
July 2016	Molecular weight of stack gases	grams per gram mole	Yearly									
July 2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	July 2016	436	598	657	1500	No		
July 2016	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly						100	No		
July 2016	Sulphur dioxide	parts per million	Continuous	100%	July 2016	130	188	203	600	No		
July 2016	Temperature	degrees Celsius	Yearly									
July 2016	Total Fluoride	milligrams per cubic metre	Yearly				•		50	No		

July 2016

10.6

5.3

17.2

9.5

100

5

34.7

20.3

No

No

July 2016	volumetric flowrate	cubic metres per second	Yeariy										
POINT 12	12 Discharge to air. Stack serving boiler unit 6, labelled point 12 on plan of premises VX837351 15/11/13 DOC14/1645 EF 13/2865												
			Sample/Measurement	Samples Collected		Lowest Sample	Mean of	Highest Sample		Exceedance			
Month	Pollutant	Unit of Measure	Frequency	& Analysed	Date Sampled	Value	Samples	Value	EPL Limit	(yes/no)	Comments		
July 2016	Cadmium	milligrams per cubic metre	Yearly						1	No			
July 2016	Chlorine	milligrams per cubic metre	Yearly						200	No			
July 2016	Copper	milligrams per cubic metre	Yearly										
July 2016	Hydrogen chloride	milligrams per cubic metre	Yearly						100	No			
July 2016	Mercury	milligrams per cubic metre	Yearly						1	No			
July 2016	Moisture	percent	Yearly										
July 2016	Molecular weight of stack gases	grams per gram mole	Yearly										
July 2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	July 2016	629	876	964	1500	No			
July 2016	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly						100	No			
July 2016	Sulphur dioxide	parts per million	Continuous	100%	July 2016	139	181	209	600	No			
July 2016	Temperature	degrees Celsius	Yearly										
July 2016	Total Fluoride	milligrams per cubic metre	Yearly						50	No			
July 2016	Total Solid Particles	milligrams per cubic metre	Yearly						100	No			

July 2016

July 2016 Vo

July 2016

Total Solid Particles

Velocity

Undifferentiated Particulates

Volatile organic compounds

Type 1 and Type 2 substances in aggregate

Type 1 and Type 2 substances in aggregate

Undifferentiated Particulates

Volatile organic compounds

Volumetric flowrate

Velocity

1. Last annual stack test on Points 11 & 12 completed in March 2016 and reported in April 2016. Next annual stack test scheduled for February/March 2017.

milligrams per cubic metre

milligrams per cubic metre

milligrams per cubic metre

metres per second

parts per million

milligrams per cubic metre

milligrams per cubic metre

metres per second

parts per million

cubic metres per second

Yearly

Yearly

Continuous

Yearly

Yearly

Continuous

Yearly

Yearly

Yearly

100%

100%