

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 2017	
ADDRESS	VALES POINT ROAD, MANNERING PARK NSW	

POINT 1 Cooling water outlet at Wyee Bay, marked and shown as "VPOC" on the Plan (VX837351, 30.06.2015, DOC15/381265).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	98.5% limit	Exceedance (yes/no)	Comments
July 2017	Chlorine (free residual)	milligrams per litre	Monthly	1	3/7/2017	0.02	0.02	0.02	0.2		No	
July 2017	Temperature	degrees celsius	Continuous	100%	July 2017	20.2	24.4	27.3	37.5	35	No	
July 2017	Oil and Grease	Visible	Continuous	100%	July 2017	NIL	NIL	NIL				No visible oil or grease detected during July 2017

POINT 2 Discharge from the ash water recycle system to the cooling water outlet canal, marked and shown as "VPADB" on the Plan (VX837351, 30.06.2015, DOC15/381265).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments	
July 2017	Ammonia	milligrams per litre	Quarterly	1	3/7/2017	<0.05	<0.05	<0.05				
July 2017	Cadmium	milligrams per litre	Quarterly	1	3/7/2017	<0.00021	<0.00021	<0.00021				
July 2017	Copper	milligrams per litre	Quarterly	1	3/7/2017	<0.001	<0.001	<0.001				
July 2017	Lead	milligrams per litre	Quarterly	1	3/7/2017	<0.0002	<0.0002	<0.0002				
July 2017	Manganese	milligrams per litre	Quarterly	1	3/7/2017	0.005	0.005	0.005				
July 2017	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	3/7/2017	0.05	0.05	0.05				
July 2017	Nitrogen (total)	milligrams per litre	Quarterly	1	3/7/2017	<0.5	<0.5	<0.5				
July 2017	pH	pH	Monthly	1	3/7/2017	9.08	9.08	9.08	6.5 - 9.5	No		
July 2017	Phosphorus (total)	milligrams per litre	Monthly	1	3/7/2017	<0.05	<0.05	<0.05				
July 2017	Reactive Phosphorus	milligrams per litre	Monthly	1	3/7/2017	0.04	0.04	0.04				
July 2017	Selenium	milligrams per litre	Quarterly	1	3/7/2017	0.0371	0.0371	0.0371				
July 2017	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	1	3/7/2017	<0.5	<0.5	<0.5				
July 2017	Total Suspended Solids	milligrams per litre	Fortnightly	5	3, 4, 11, 17, 31/7/17	3	5	8	50	No		
July 2017	Zinc	milligrams per litre	Quarterly	1	3/7/2017	0.006	0.006	0.006				

POINT 4 Seepage from ash dam rehabilitated area, marked and shown as "VPADS" on the Plan (VX837351, 30.06.2015, DOC15/381265).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments	
July 2017	Ammonia	milligrams per litre	Quarterly	1	3/7/2017	1.94	1.94	1.94				
July 2017	Cadmium	milligrams per litre	Quarterly	1	3/7/2017	0.00047	0.00047	0.00047				
July 2017	Copper	milligrams per litre	Quarterly	1	3/7/2017	<0.001	<0.001	<0.001				
July 2017	Lead	milligrams per litre	Quarterly	1	3/7/2017	<0.0002	<0.0002	<0.0002				
July 2017	Manganese	milligrams per litre	Quarterly	1	3/7/2017	0.125	0.125	0.125				
July 2017	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	3/7/2017	0.18	0.18	0.18				
July 2017	Nitrogen (total)	milligrams per litre	Quarterly	1	3/7/2017	2.2	2.2	2.2			No discharge to Mannerling Bay during July 2017	
July 2017	pH	pH	Monthly	1	3/7/2017	8.17	8.17	8.17				
July 2017	Phosphorus (total)	milligrams per litre	Monthly	1	3/7/2017	<0.05	<0.05	<0.05				
July 2017	Selenium	milligrams per litre	Quarterly	1	3/7/2017	0.0021	0.0021	0.0021				
July 2017	Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	1	3/7/2017	2	2	2				
July 2017	Total Suspended Solids	milligrams per litre	Monthly	1	3/7/2017	4	4	4	50	No		
July 2017	Zinc	milligrams per litre	Quarterly	1	3/7/2017	<0.005	<0.005	<0.005				

POINT 18 Overboarding of Ash Dam, marked and shown as "VPADD" on the Plan (VX837351, 30.06.2015, DOC15/381265).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments	
July 2017	Ammonia	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Cadmium	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Copper	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Lead	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Manganese	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Nitrogen (total)	milligrams per litre	Daily for discharge >2 hrs								No discharge from EPA Point 18 during July 2017	
July 2017	pH	pH	Daily for discharge >2 hrs						6.5 - 9.0			
July 2017	Phosphorus (total)	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Selenium	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Total Kjeldahl Nitrogen	milligrams per litre	Daily for discharge >2 hrs									
July 2017	Total Suspended Solids	milligrams per litre	Daily for discharge >2 hrs						50			
July 2017	Zinc	milligrams per litre	Daily for discharge >2 hrs									

POINT 19 Groundwater bore, marked and shown as "VPGM/D3" on the Plan (VX837351, 30.06.2015, DOC15/381265).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
July 2017	Arsenic	milligrams per litre	Quarterly	1	3/7/2017	0.0094	0.0094	0.0094			
July 2017	Cadmium	milligrams per litre	Quarterly	1	3/7/2017	<0.00021	<0.00021	<0.00021			
July 2017	Calcium	milligrams per litre	Quarterly	1	3/7/2017	848	848	848			
July 2017	Chromium	milligrams per litre	Quarterly	1	3/7/2017	0.0015	0.0015	0.0015			
July 2017	Copper	milligrams per litre	Quarterly	1	3/7/2017	0.0028	0.0028	0.0028			
July 2017	Electrical conductivity	microsiemens per centimetre	Quarterly	1	3/7/2017	36500	36500	36500			
July 2017	Iron	milligrams per litre	Quarterly	1	3/7/2017	69.6	69.6	69.6			
July 2017	Lead	milligrams per litre	Quarterly	1	3/7/2017	0.0015	0.0015	0.0015			
July 2017	Magnesium	milligrams per litre	Quarterly	1	3/7/2017	860	860	860			
July 2017	Manganese	milligrams per litre	Quarterly	1	3/7/2017	5.2	5.2	5.2			
July 2017	Nickel	milligrams per litre	Quarterly	1	3/7/2017	0.0225	0.0225	0.0225			
July 2017	pH	pH	Quarterly	1	3/7/2017	5.66	5.66	5.66			
July 2017	Potassium	milligrams per litre	Quarterly	1	3/7/2017	90	90	90			
July 2017	Selenium	milligrams per litre	Quarterly	1	3/7/2017	<0.0021	<0.0021	<0.0021			
July 2017	Sodium	milligrams per litre	Quarterly	1	3/7/2017	5450	5450	5450			
July 2017	Standing Water Level	metres	Quarterly	1	3/7/2017	3.73	3.73	3.73			
July 2017	Zinc	milligrams per litre	Quarterly	1	3/7/2017	0.025	0.025	0.025			

POINT 20 Groundwater bore, marked and shown as "VPGM/D5" on the Plan (VX837351, 30.06.2015, DOC15/381265).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
July 2017	Arsenic	milligrams per litre	Quarterly	1	3/7/2017	0.0083	0.0083	0.0083			
July 2017	Cadmium	milligrams per litre	Quarterly	1	3/7/2017	0.00013	0.00013	0.00013			
July 2017	Calcium	milligrams per litre	Quarterly	1	3/7/2017	146	146	146			
July 2017	Chromium	milligrams per litre	Quarterly	1	3/7/2017	0.0023	0.0023	0.0023			
July 2017	Copper	milligrams per litre	Quarterly	1	3/7/2017	0.015	0.015	0.015			
July 2017	Electrical conductivity	microsiemens per centimetre	Quarterly	1	3/7/2017	12700	12700	12700			
July 2017	Iron	milligrams per litre	Quarterly	1	3/7/2017	72.9	72.9	72.9			
July 2017	Lead	milligrams per litre	Quarterly	1	3/7/2017	0.0094	0.0094	0.0094			
July 2017	Magnesium	milligrams per litre	Quarterly	1	3/7/2017	270	270	270			
July 2017	Manganese	milligrams per litre	Quarterly	1	3/7/2017	1.22	1.22	1.22			
July 2017	Nickel	milligrams per litre	Quarterly	1	3/7/2017	0.0425	0.0425	0.0425			
July 2017	pH	pH	Quarterly	1	3/7/2017	5.46	5.46	5.46			
July 2017	Potassium	milligrams per litre	Quarterly	1	3/7/2017	15	15	15			
July 2017	Selenium	milligrams per litre	Quarterly	1	3/7/2017	0.0021	0.0021	0.0021			
July 2017	Sodium	milligrams per litre	Quarterly	1	3/7/2017	1710	1710	1710			
July 2017	Standing Water Level	metres	Quarterly	1	3/7/2017	0.58	0.58	0.58			
July 2017	Zinc	milligrams per litre	Quarterly	1	3/7/2017	0.723	0.723	0.723			

POINT 21 Groundwater bore, marked and shown as "VPGM/D6" on the Plan (VX837351, 30.06.2015, DOC15/381265).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
July 2017	Arsenic	milligrams per litre	Quarterly	1	3/7/2017	0.0007	0.0007	0.0007			
July 2017	Cadmium	milligrams per litre	Quarterly	1	3/7/2017	<0.00005	<0.00005	<0.00005			
July 2017	Calcium	milligrams per litre	Quarterly	1	3/7/2017	3	3	3			
July 2017	Chromium	milligrams per litre	Quarterly	1	3/7/2017	0.0029	0.0029	0.0029			
July 2017	Copper	milligrams per litre	Quarterly	1	3/7/2017	0.0036	0.0036	0.0036			
July 2017	Electrical conductivity	microsiemens per centimetre	Quarterly	1	3/7/2017	308	308	308			
July 2017	Iron	milligrams per litre	Quarterly	1	3/7/2017	3.02	3.02	3.02			
July 2017	Lead	milligrams per litre	Quarterly	1	3/7/2017	0.003	0.003	0.003			
July 2017	Magnesium	milligrams per litre	Quarterly	1	3/7/2017	8	8	8			
July 2017	Manganese	milligrams per litre	Quarterly	1	3/7/2017	0.0392	0.0392	0.0392			
July 2017	Nickel	milligrams per litre	Quarterly	1	3/7/2017	0.0056	0.0056	0.0056			
July 2017	pH	pH	Quarterly	1	3/7/2017	5.65	5.65	5.65			
July 2017	Potassium	milligrams per litre	Quarterly	2	3/7/2017	2	2	2			
July 2017	Selenium	milligrams per litre	Quarterly	1	3/7/2017	0.0003	0.0003	0.0003			
July 2017	Sodium	milligrams per litre	Quarterly	1	3/7/2017	46	46	46			
July 2017	Standing Water Level	metres	Quarterly	1	3/7/2017	2.72	2.72	2.72			
July 2017	Zinc	milligrams per litre	Quarterly	1	3/7/2017	0.01	0.01	0.01			

POINT 22 Groundwater bore, marked and shown as "VPGM/D8" on the Plan (VX837351, 30.06.2015, DOC15/381265).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
July 2017	Arsenic	milligrams per litre	Quarterly	1	3/7/2017	0.004	0.004	0.004			
July 2017	Cadmium	milligrams per litre	Quarterly	1	3/7/2017	<0.00021	<0.00021	<0.00021			
July 2017	Calcium	milligrams per litre	Quarterly	1	3/7/2017	570	570	570			
July 2017	Chromium	milligrams per litre	Quarterly	1	3/7/2017	0.0049	0.0049	0.0049			
July 2017	Copper	milligrams per litre	Quarterly	1	3/7/2017	0.0034	0.0034	0.0034			
July 2017	Electrical conductivity	microsiemens per centimetre	Quarterly	1	3/7/2017	46900	46900	46900			
July 2017	Iron	milligrams per litre	Quarterly	1	3/7/2017	63.8	63.8	63.8			
July 2017	Lead	milligrams per litre	Quarterly	1	3/7/2017	0.0028	0.0028	0.0028			
July 2017	Magnesium	milligrams per litre	Quarterly	1	3/7/2017	1040	1040	1040			
July 2017	Manganese	milligrams per litre	Quarterly	1	3/7/2017	1.05	1.05	1.05			
July 2017	Nickel	milligrams per litre	Quarterly	1	3/7/2017	0.0035	0.0035	0.0035			
July 2017	pH	pH	Quarterly	1	3/7/2017	6.8	6.8	6.8			
July 2017	Potassium	milligrams per litre	Quarterly	1	3/7/2017	255	255	255			
July 2017	Selenium	milligrams per litre	Quarterly	1	3/7/2017	<0.0021	<0.0021	<0.0021			
July 2017	Sodium	milligrams per litre	Quarterly	1	3/7/2017	8260	8260	8260			
July 2017	Standing Water Level	metres	Quarterly	1	3/7/2017	0.04	0.04	0.04			
July 2017	Zinc	milligrams per litre	Quarterly	1	3/7/2017	0.035	0.035	0.035			

POINT 23 Groundwater bore, marked and shown as "VPGM/D10" on the Plan (VX837351, 30.06.2015, DOC15/381265).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
July 2017	Arsenic	milligrams per litre	Quarterly	1	3/7/2017	0.0054	0.0054	0.0054			
July 2017	Cadmium	milligrams per litre	Quarterly	1	3/7/2017	0.00008	0.00008	0.00008			
July 2017	Calcium	milligrams per litre	Quarterly	1	3/7/2017	6	6	6			
July 2017	Chromium	milligrams per litre	Quarterly	1	3/7/2017	0.0301	0.0301	0.0301			
July 2017	Copper	milligrams per litre	Quarterly	1	3/7/2017	0.021	0.021	0.021			
July 2017	Electrical conductivity	microsiemens per centimetre	Quarterly	1	3/7/2017	903	903	903			
July 2017	Iron	milligrams per litre	Quarterly	1	3/7/2017	1.68	1.68	1.68			
July 2017	Lead	milligrams per litre	Quarterly	1	3/7/2017	0.0156	0.0156	0.0156			
July 2017	Magnesium	milligrams per litre	Quarterly	1	3/7/2017	22	22	22			
July 2017	Manganese	milligrams per litre	Quarterly	1	3/7/2017	0.0855	0.0855	0.0855			
July 2017	Nickel	milligrams per litre	Quarterly	1	3/7/2017	0.0107	0.0107	0.0107			
July 2017	pH	pH	Quarterly	1	3/7/2017	5	5	5			
July 2017	Potassium	milligrams per litre	Quarterly	1	3/7/2017	3	3	3			
July 2017	Selenium	milligrams per litre	Quarterly	1	3/7/2017	0.0012	0.0012	0.0012			
July 2017	Sodium	milligrams per litre	Quarterly	1	3/7/2017	165	165	165			
July 2017	Standing Water Level	metres	Quarterly	1	3/7/2017	-0.21	-0.21	-0.21			
July 2017	Zinc	milligrams per litre	Quarterly	1	3/7/2017	0.057	0.057	0.057			

POINT 11 Stack serving Boiler Unit No. 5, marked and shown as "11" on the Plan (VX837351, 30.06.2015, DOC15/381265).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
July 2017	Cadmium	milligrams per cubic metre	Yearly						1	No	Annual stack test for 2017/18 scheduled for March 2018
July 2017	Chlorine	milligrams per cubic metre	Yearly						200	No	
July 2017	Copper	milligrams per cubic metre	Yearly								
July 2017	Hydrogen chloride	milligrams per cubic metre	Yearly						100	No	
July 2017	Mercury	milligrams per cubic metre	Yearly						1	No	
July 2017	Moisture	percent	Yearly								
July 2017	Molecular weight of stack gases	grams per gram mole	Yearly								
July 2017	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	July 2017	441	577	709	1500	No	
July 2017	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly						100	No	
July 2017	Sulphur dioxide	parts per million	Continuous	100%	July 2017	167	215	277	600	No	
July 2017	Temperature	degrees Celsius	Yearly								
July 2017	Total Fluoride	milligrams per cubic metre	Yearly						50	No	
July 2017	Total Solid Particles	milligrams per cubic metre	Yearly						100	No	
July 2017	Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly						5	No	
July 2017	Undifferentiated Particulates	milligrams per cubic metre	Continuous	100%	July 2017	14.5	18.8	41.5			
July 2017	Velocity	metres per second	Yearly								
July 2017	Volatile organic compounds	parts per million	Yearly								
July 2017	Volumetric flowrate	cubic metres per second	Yearly								

POINT 12 Stack serving Boiler Unit No. 6, marked and shown as "12" on the Plan (VX837351, 30.06.2015, DOC15/381265).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	EPL Limit	Exceedance (yes/no)	Comments
June 2017	Cadmium	milligrams per cubic metre	Yearly						1	No	Annual stack test for 2017/18 scheduled for March 2018
June 2017	Chlorine	milligrams per cubic metre	Yearly						200	No	
June 2017	Copper	milligrams per cubic metre	Yearly								
June 2017	Hydrogen chloride	milligrams per cubic metre	Yearly						100	No	
June 2017	Mercury	milligrams per cubic metre	Yearly						1	No	
June 2017	Moisture	percent	Yearly								
June 2017	Molecular weight of stack gases	grams per gram mole	Yearly								
June 2017	Nitrogen Oxides	milligrams per cubic metre	Continuous	100%	July 2017	435	827	1079	1500	No	
June 2017	Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	Yearly						100	No	
June 2017	Sulphur dioxide	parts per million	Continuous	100%	July 2017	150	204	271	600	No	
June 2017	Temperature	degrees Celsius	Yearly								
June 2017	Total Fluoride	milligrams per cubic metre	Yearly						50	No	
June 2017	Total Solid Particles	milligrams per cubic metre	Yearly						100	No	
June 2017	Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly						5	No	
June 2017	Undifferentiated Particulates	milligrams per cubic metre	Continuous	100%	July 2017	23.5	38.5	57.2			
June 2017	Velocity	metres per second	Yearly								
June 2017	Volatile organic compounds	parts per million	Yearly								
June 2017	Volumetric flowrate	cubic metres per second	Yearly								

GENERAL COMMENTS

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