



## SUMMARY OF SUNRICE ENVIRONMENTAL MONITORING DATA

June 2020 to May 2021

Licence Number 1830		LEETON RICE MILL, CALROSE STREET LEETON NSW 2705							
Monitoring Point	Pollutant	Units	100 percentile Concentration Limit	Frequency	No of Samples Required	No of Samples Collected	Min Result	Average Result	Max Result
36†	Phosphine	mg/m3	27	Annually	131	131	0.0	0.3	20.4
	Carbon Dioxide	%		Annually			3.4	9.4	29.5
	Dry gas density	kg/m3		Annually			1.1	1.2	1.3
	Moisture	%		Annually			0.0	0.1	0.5
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			0.0	21.8	40.0
	Velocity	m/s		Annually			0.0	8.3	43.1
	Volumetric flow rate	m3/s		Annually			0.0	0.3	1.4
37	Phosphine	mg/m3	29	Annually	53	53	0.0	2.2	5.8
	Carbon Dioxide	%		Annually			6.0	12.5	20.0
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.8	5.3	7.4
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			11.6	20.3	23.9
	Velocity	m/s		Annually			9.5	10.1	10.8
	Volumetric flow rate	m3/s		Annually			1.1	1.2	1.2
38	Phosphine	mg/m3	29	Annually	53	53	0.0	2.2	5.8
	Carbon Dioxide	%		Annually			6.0	12.5	20.0
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.8	5.3	7.4
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			11.6	20.3	23.9
	Velocity	m/s		Annually			9.5	10.1	10.8
	Volumetric flow rate	m3/s		Annually			1.1	1.2	1.2
39	Phosphine	mg/m3	12	Annually	43	43	0.0	0.1	1.8
	Carbon Dioxide	%		Annually			0.0	0.7	10.0
	Dry gas density	kg/m3		Annually			1.1	1.2	1.2
	Moisture	%		Annually			7.5	8.6	10.4
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			27.8	28.6	29.8
	Velocity	m/s		Annually			1.4	2.0	2.5
	Volumetric flow rate	m3/s		Annually			0.2	0.3	0.3
40†	Phosphine	mg/m3	10	Annually	101	101	0.0	0.0	0.1
	Carbon Dioxide	%		Annually			0.0	4.8	20.0
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			2.3	4.7	6.7
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			15.9	19.5	22.7
	Velocity	m/s		Annually			6.4	8.1	9.0
	Volumetric flow rate	m3/s		Annually			1.1	1.3	1.5
41†	Phosphine	mg/m3	9	Annually	101	101	0.0	0.0	0.1
	Carbon Dioxide	%		Annually			0.0	4.8	20.0
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			2.3	4.7	6.7
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			15.9	19.5	22.7
	Velocity	m/s		Annually			6.4	8.1	9.0
	Volumetric flow rate	m3/s		Annually			1.1	1.3	1.5
42	Phosphine	mg/m3	8	Annually	33	33	0.0	0.3	3.3
	Carbon Dioxide	%		Annually			2.0	8.6	10.0
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			3.2	5.3	10.0
	Molecular weight of stack gases	g/gram mole		Annually			28.5	28.8	28.8
	Temperature	Degrees C		Annually			16.1	20.6	27.4
	Velocity	m/s		Annually			4.0	4.4	5.3
	Volumetric flow rate	m3/s		Annually			0.5	0.6	0.7
43†	Phosphine	mg/m3	8	Annually	194	194	0.0	0.4	3.8
	Carbon Dioxide	%		Annually			0.0	2.6	10.0
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			2.5	2.8	2.9
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			16.1	17.7	18.2
	Velocity	m/s		Annually			4.9	5.6	6.1
	Volumetric flow rate	m3/s		Annually			0.6	0.7	0.8

Licence Number 1833 DENILQUIN RICE MILL, SALE YARDS ROAD DENILQUIN NSW 2710									
Monitoring Point	Pollutant	Units	100 percentile Concentration Limit	Frequency	No of Samples Required	No of Samples Collected	Min Result	Average Result	Max Result
1	Methyl Bromide	mg/m3	0.35	Annually	1	3	0.00	0.00	0.00
2	Phosphine	mg/m3	29	Annually	30	30	0.02	0.03	0.05
	Carbon Dioxide	%		Annually			3.0	5.3	10.6
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.6	2.2	3.7
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			10.7	13.8	17.0
	Velocity	m/s		Annually			14.5	17.2	17.7
	Volumetric flow rate	m3/s		Annually			0.7	0.8	0.9
3‡	Phosphine	mg/m3	29	Annually	40	40	0.05	0.94	2.08
	Carbon Dioxide	%		Annually			2.0	4.4	11.0
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.6	1.9	2.5
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			10.4	13.2	17.6
	Velocity	m/s		Annually			17.4	18.0	18.9
	Volumetric flow rate	m3/s		Annually			0.9	0.9	0.9
4	Phosphine	mg/m3	29	Annually	35	35	0.03	0.53	1.29
	Carbon Dioxide	%		Annually			2.0	4.8	12.2
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			2.2	3.4	5.3
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			16.4	20.1	28.0
	Velocity	m/s		Annually			15.7	16.5	17.2
	Volumetric flow rate	m3/s		Annually			0.8	0.8	0.8
5	Phosphine	mg/m3	29	Annually	51	51	0.0	0.5	1.7
	Carbon Dioxide	%		Annually			2.0	8.1	23.2
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.9	2.6	3.6
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			15.1	17.1	18.8
	Velocity	m/s		Annually			0.8	1.6	3.0
	Volumetric flow rate	m3/s		Annually			0.0	0.1	0.1

‡Yanco BOM Data used for some records of Temperature and Humidity

‡Denilquin BOM Data used for some records of Temperature and Humidity