

SUMMARY OF ENVIRONMENTAL MONITORING DATA July 2016 to June 2017

Licence Number 1830									
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	29	Annually	218	218	0.0	0.4	20.6
	Carbon Dioxide	%		Annually			0.0	2.7	27.8
	Dry gas density	kg/m3		Annually			1.1	1.2	1.3
	Moisture	%		Annually			0.7	6.8	54.8
	Molecular weight of stack gases	g/gram mole		Annually			28.5	28.8	28.9
	Temperature	Degrees C		Annually			0.0	18.8	47.2
	Velocity	m/s		Annually			4.1	37.6	45.5
	Volumetric flow rate	m3/s		Annually			0.1	1.2	1.4
37	Phosphine	mg/m3	29	Annually	43	43	0.0	1.5	17.0
	Carbon Dioxide	%		Annually			3.9	6.0	27.4
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.3	2.3	3.6
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.9	28.9
	Temperature	Degrees C		Annually			7.9	14.0	18.4
	Velocity	m/s		Annually			6.3	8.8	9.2
	Volumetric flow rate	m3/s		Annually			0.7	1.0	1.0
38	Phosphine	mg/m3	12	Annually	43	43	0.0	1.5	17.0
	Carbon Dioxide	%		Annually			3.9	6.0	27.4
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.3	2.3	3.6
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.9	28.9
	Temperature	Degrees C		Annually			7.9	14.0	18.4
	Velocity	m/s		Annually			6.3	8.8	9.2
	Volumetric flow rate	m3/s		Annually			0.7	1.0	1.0
39 [#]	Phosphine	mg/m3	10	Annually	67	67	0.0	0.1	3.8
	Carbon Dioxide	%		Annually			0.0	1.6	14.7
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.9	2.3	3.7
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			15.2	16.5	19.4
	Velocity	m/s		Annually			1.8	2.7	3.6
	Volumetric flow rate	m3/s		Annually			0.2	0.3	0.5
40	Phosphine	mg/m3	9	Annually	24	24	0.0	0.4	3.4
	Carbon Dioxide	%		Annually			4.0	5.1	10.7
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.5	2.8	4.6
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			7.5	13.9	19.1
	Velocity	m/s		Annually			5.6	6.3	6.8
	Volumetric flow rate	m3/s		Annually			0.9	1.0	1.1
41	Phosphine	mg/m3	9	Annually	24	24	0.0	1.0	7.1
	Carbon Dioxide	%		Annually			4.0	4.9	10.2
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.4	3.5	5.9
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			7.2	14.0	18.1
	Velocity	m/s		Annually			5.4	6.0	6.9
	Volumetric flow rate	m3/s		Annually			0.4	0.4	0.5
42 [#]	Phosphine	mg/m3	9	Annually	67	67	0.0	0.1	0.8
	Carbon Dioxide	%		Annually			0.0	1.0	12.9
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			2.9	4.3	6.7
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8

Temperature	Degrees C	Annually	17.4	19.4	22.8
Velocity	m/s	Annually	5.0	5.4	5.8
Volumetric flow rate	m3/s	Annually	0.6	0.7	0.7

Licence Number* 1832									
Monitoring Point	Pollutant	Units	100 percentile Concentration Limit	Frequency	No of Samples Required	No of Samples Collected	Min Result	Average Result	Max Result
1	Phosphine	mg/m3	29	Annually	0	0	NA	NA	NA
	Carbon Dioxide	%		Annually	0	0	NA	NA	NA
	Dry gas density	kg/m3		Annually	0	0	NA	NA	NA
	Moisture	%		Annually	0	0	NA	NA	NA
	Molecular weight of stack gases	g/gram mole		Annually	0	0	NA	NA	NA
	Temperature	Degrees C		Annually	0	0	NA	NA	NA
	Velocity	m/s		Annually	0	0	NA	NA	NA
	Volumetric flow rate	m3/s		Annually	0	0	NA	NA	NA

Licence Number 1833									
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	Continuous During Discharge	51	51	0.00	0.03	0.20
2	Phosphine	mg/m3	29	Annually	20	20	0.0	0.3	1.0
	Carbon Dioxide	%		Annually			2.8	7.2	21.3
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			3.1	4.0	4.6
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.9	28.9
	Temperature	Degrees C		Annually			16.9	18.9	21.4
	Velocity	m/s		Annually			7.4	19.1	20.8
	Volumetric flow rate	m3/s		Annually			0.4	0.9	1.0
3	Phosphine	mg/m3	29	Annually	54	54	0.0	0.6	2.8
	Carbon Dioxide	%		Annually			3.0	6.0	17.1
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.4	1.8	2.7
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.9	28.9
	Temperature	Degrees C		Annually			10.0	12.2	16.1
	Velocity	m/s		Annually			11.0	18.3	18.7
	Volumetric flow rate	m3/s		Annually			0.5	0.9	0.9
4	Phosphine	mg/m3	29	Annually	58	58	0.0	1.3	6.1
	Carbon Dioxide	%		Annually			3.9	5.4	12.2
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.5	1.9	3.4
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.9	28.9
	Temperature	Degrees C		Annually			10.9	13.7	19.2
	Velocity	m/s		Annually			20.1	20.5	20.8
	Volumetric flow rate	m3/s		Annually			1.0	1.0	1.0
5	Phosphine	mg/m3	29	Annually	19	19	0.0	4.5	7.8
	Carbon Dioxide	%		Annually			4.1	12.1	20.7
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			2.5	3.7	4.4
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.9	28.9
	Temperature	Degrees C		Annually			17.5	20.4	21.9
	Velocity	m/s		Annually			6.6	7.8	8.3
	Volumetric flow rate	m3/s		Annually			1.1	1.3	1.4

* Plant Not Operational During

Reporting Period

June-July 2016