ENVIRONMENTAL MONITORING REPORT
JBS RIVERINA FACILITY

Environment Protection Licence Summary	
Licence (EPL) Number:	**3547**
Licensee's Name:	**JBS Australia Pty Limited**
Premises Address:	**Riverina, Regulator Road, Yanco NSW 2703**
Reporting Year:	**JANUARY 2021 – JANUARY 2022**

EPA Monitoring Requirements –JBS Riverina

Points 1,2,3,4,5,6,7,8,9,10,11,12,13,14			
Pollutant	**Units of Measure**	**Frequency**	**Sampling Method**
Aggregate Stability	As appropriate	3 Years	Representative Sample
Available Phosphorus	mg/kg	Yearly	Representative Sample
Clay Dispersion	As appropriate	3 Years	Representative Sample
Conductivity	deciSiemens/M	Yearly	Representative Sample
Exchangeable Calcium	centimoles of positive charge per Kg of soil	Yearly	Representative Sample
Exchangeable Magnesium	centimoles of positive charge/Kg of soil	Yearly	Representative Sample
Exchangeable potassium	centimoles of positive charge/Kg of soil	Yearly	Representative Sample
Exchangeable sodium	centimoles of positive charge per Kg of soil	Yearly	Representative Sample
Nitrate	Mg/Kg	Yearly	Representative Sample
pH	pH	Yearly	Representative Sample

Point 15			
Pollutant	**Units of Measure**	**Frequency**	**Sampling Method**
Aggregate Stability	As appropriate	3 Years	Composite Sample
Available Phosphorus	mg/kg	Yearly	Composite Sample
Clay Dispersion	As appropriate	3 Years	Composite Sample
Conductivity	deciSiemens/M	Yearly	Composite Sample
Exchangeable Calcium	centimoles of positive charge per Kg of soil	Yearly	Composite Sample
Exchangeable Magnesium	centimoles of positive charge/Kg of soil	Yearly	Composite Sample
Exchangeable potassium	centimoles of positive charge/Kg of soil	Yearly	Representative Sample
Exchangeable sodium	centimoles of positive charge per Kg of soil	Yearly	Representative Sample
Nitrate	Mg/Kg	Yearly	Representative Sample
pH	pH	Yearly	Representative Sample

Point 16			
Pollutant	**Units of Measure**	**Frequency**	**Sampling Method**
Ammonia	Milligrams per litre	Every 6 months	Representative Sample
Conductivity	Microsiemens per centimetres	Every 6 months	Representative Sample
Nitrate	Milligrams per litre	Every 6 months	Representative Sample
Orthophosphate	Milligrams per litre	Every 6 months	Representative Sample
pH	pH	Every 6 months	Representative Sample

Point 17,18,19,20,21,22,23			
Pollutant	**Units of Measure**	**Frequency**	**Sampling Method**
Ammonia	Milligrams per litre	Every 6 months	Representative Sample
Conductivity	Microsiemens per centimetres	Every 6 months	Representative Sample
Nitrate	Milligrams per litre	Every 6 months	Representative Sample
Orthophosphate	Milligrams per litre	Every 6 months	Representative Sample
Standing Water Level	metres	Every 6 months	Inspection
pH	pH	Every 6 months	Representative Sample

Point 24,25			
Pollutant	**Units of Measure**	**Frequency**	**Sampling Method**
Ammonia	Milligrams per litre	Special Frequency 1	Representative Sample
Conductivity	Microsiemens per centimetres	Special Frequency 1	Representative Sample
Nitrate	Milligrams per litre	Special Frequency 1	Representative Sample
Orthophosphate	Milligrams per litre	Special Frequency 1	Representative Sample
Phosphorus (total)	Milligrams per litre	Special Frequency 1	Representative Sample
Total Kjeldhal Nitrogen	Milligrams per litre	Special Frequency 1	Representative Sample
pH	pH	Special Frequency 1	Representative Sample

For the purpose of the tables above Special Frequency 1 means the collection of samples whenever the tailwater dam is filled to over 80% of its capacity.

Point 26			
Pollutant	**Units of Measure**	**Frequency**	**Sampling Method**
Aggregate Stability	As appropriate	3 Years	Representative Sample
Available Phosphorus	mg/kg	Yearly	Representative Sample
Clay Dispersion	As appropriate	3 Years	Representative Sample
Conductivity	deciSiemens/M	Yearly	Representative Sample
Exchangeable Calcium	centimoles of positive charge per Kg of soil	Yearly	Representative Sample

Point 26			
Exchangeable Magnesium	centimoles of positive charge/Kg of soil	Yearly	Representative Sample
Exchangeable potassium	centimoles of positive charge/Kg of soil	Yearly	Representative Sample
Exchangeable sodium	centimoles of positive charge per Kg of soil	Yearly	Representative Sample
Nitrate	Milligrams per kilogram	Yearly	Representative Sample
Phosphorus Sorption Capacity	Milligrams per kilogram	3 years	Representative Sample
pH	pH	Yearly	Representative Sample

Data Gaps During this reporting Period

Licence Location	JBS sampling Location	Frequency	Period data is missing	Reason for missing data
No gaps to report				

JBS Riverina – Environmental Monitoring Points

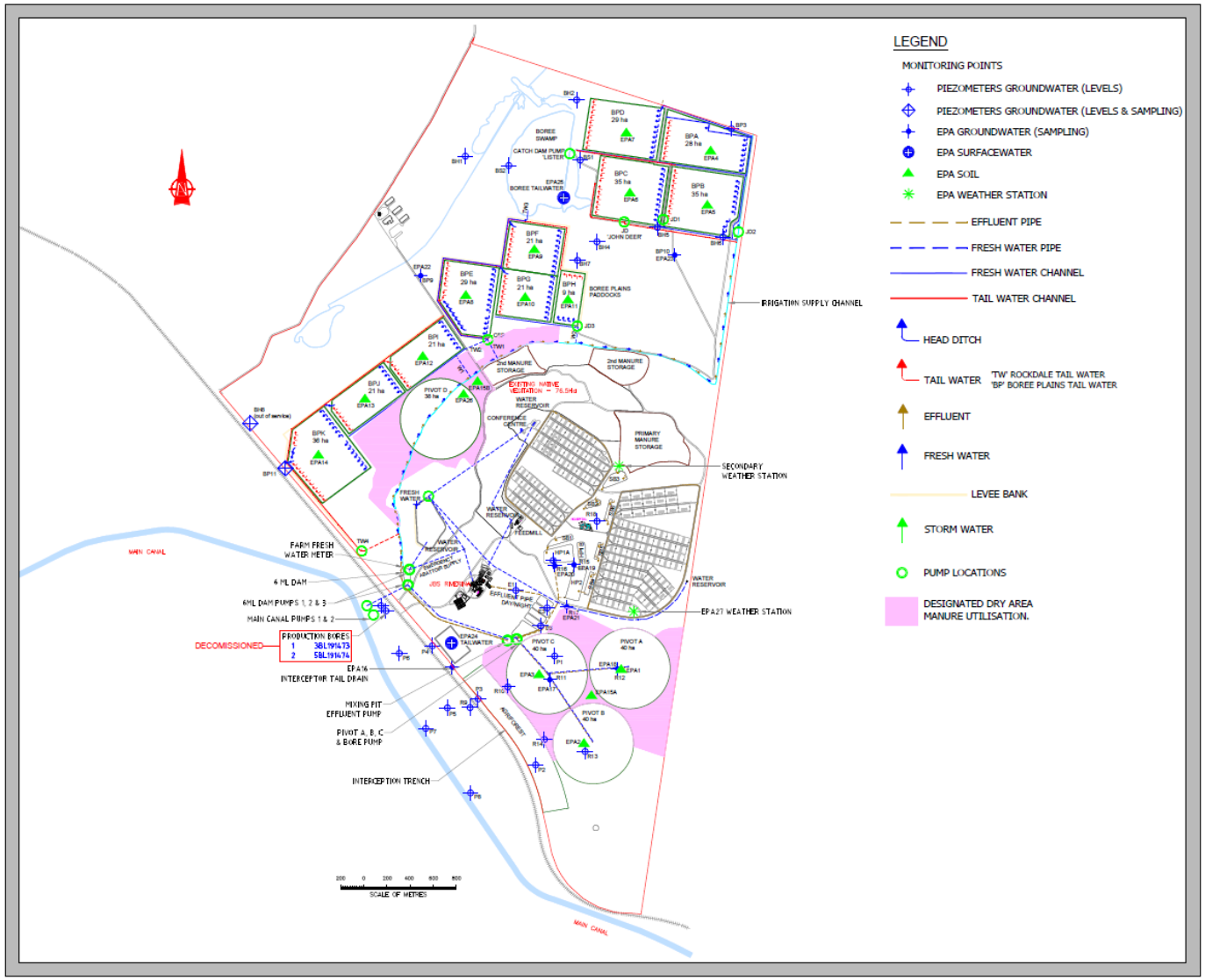

Figure 1: Riverina Monitoring Points

JBS Riverina - Monitoring Results

Type: Groundwater Monitoring

Frequency: 6 Monthly

					Pollutants					
EPA Licence Location	**JBS Sampling Location**	**Monitoring Frequency**	**Sampling Sub-location**	**Date of Sampling**	**Ammonia (mg/l)**	**Conductivity (microSiemens/cm)**	**Nitrate (mg/l)**	**pH**	**Orthophosphate (mg/l)**	**Standing Water Level (metres)**
EPA 16	**Interceptor Tail Drain**	**6 months**	Interceptor Tail Drain	26.08.2021	1.4	1090	0.068	8.31	0.44	3.3
				15.12.2021	0.028	24300	3.9	7.36	0.054	2.4
EPA 17	**R11**	**6 months**	R11A	26.08.2021	19	8940	<0.005	7.32	6.4	14
			R11A	15.12.2021	0.26	5810	72	7.16	0.32	14
			R11B	26.08.2021	Dry bore					
			R11B	15.12.2021	Dry bore					
			R11C	26.08.2021	Dry bore					
			R11C	15.12.2021	Dry bore					
EPA 18	**R12**	**6 months**	R12A	26.08.2021	0.2	12600	76	6.87	0.27	10.5
			R12A	15.12.2021	0.05	10300	79	6.61	0.17	10.7
			R12B	26.08.2021	0.07	12800	78	6.78	0.2	9.1
			R12B	15.12.2021	0.10	10600	95	6.57	0.16	9.4
			R12C	26.08.2021	Dry bore					
			R12C	15.12.2021	Dry bore					
EPA 19	**R15**	**6 months**	R15A	26.08.2021	0.072	12800	78	6.78	0.2	8.6
			R15A	15.12.2021	0.083	5660	0.17	7.36	0.032	4.5
			R15B	26.08.2021	0.11	6190	0.31	7.53	0.065	8.6
			R15B	15.12.2021	0.13	6030	0.33	7.48	0.056	8.5
			R15C	26.08.2021	Dry bore					

					Pollutants					
EPA Licence Location	**JBS Sampling Location**	**Monitoring Frequency**	**Sampling Sub-location**	**Date of Sampling**	**Ammonia (mg/l)**	**Conductivity (microSiemens/cm)**	**Nitrate (mg/l)**	**pH**	**Orthophosphate (mg/l)**	**Standing Water Level (metres)**
			R15C	15.12.2021	Dry bore					
EPA 20	**R16**	**6 months**	R16	26.08.2021	Dry bore					
			R16	15.12.2021	Dry bore					
EPA 21	**R17**	**6 months**	R17	26.08.2021	Dry bore					
			R17	15.12.2021	Dry bore					
EPA 22	**BP9**	**6 months**	BP9A	26.08.2021	0.007	32300	3.1	7.51	0.056	4.5
			BP9A	15.12.2021	24	2110	1.1	7.74	6.7	9.4
			BP9B	26.08.2021	30	32400	2.4	7.45	5	4.5
			BP9B	15.12.2021	43	23300	<0.005	6.64	8.1	4.5
EPA 23	**BP10**	**6 months**	BP10A	26.08.2021	0.08	33500	0.57	7.38	0.084	10.1
			BP10A	15.12.2021	0.12	25100	0.60	7.3	0.1	9.9
			BP10B	26.08.2021	Dry bore					
			BP10B	15.12.2021	Dry bore					

Type: Surface Water Monitoring

Frequency: Special Frequency 1 Monitoring – collection of samples whenever the Tailwater dam is filled to over 80% of its capacity

				Pollutants						
EPA Licence Location	**JBS Sampling Location**	**Monitoring Frequency**	**Date of Sampling**	**Total Kjeldhal Nitrogen (mg/l)**	**Ammonia (mg/l)**	**Conductivity (microSiemens/cm)**	**Nitrate (mg/l)**	**pH**	**Orthophosphate (mg/l)**	**Phosphorus (total) (mg/l)**
EPA 24	**Tailwater**	**Special Frequency 1***	15/12/2021	99	98	3120	<0.005	7.7	51	59
			25/11/2021	110	78	2630	1.1	7.7	18	56.76
			5/10/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			14/09/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			9/08/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			12/07/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			7/06/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			4/05/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			12/04/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			10/03/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			15/02/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			6/01/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
EPA 25	**Boree tailwater**	**Special Frequency 1***	15/12/2021	10	0.3	1720	<0.005	9.2	2.4	4.9
			25/11/2021	11	4.0	1400	13	8.1	7.1	19.9
			5/10/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			14/09/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			9/08/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			12/07/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			7/06/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			4/05/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			12/04/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			10/03/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			15/02/2021		Tailwater did not fill to over 80% of its capacity, no samples required					
			6/01/2021		Tailwater did not fill to over 80% of its capacity, no samples required					

*** Special Frequency 1 Monitoring – collection of samples whenever the Tailwater dam is filled to over 80% of its capacity**

Type: Soil Quality Monitoring

Frequency: Yearly / 3 Years

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
EPA 1	**Pivot A**	**Yearly**	22/01/22	**Exchangeable Potassium**	**centimoles of positive charge/kg of soil**	2	2	1.48	0.89
		Yearly		**Available Phosphorus**	**mg/kg**	2	2	185	39
		3 years		***Clay Dispersion**	**As approp.**	2	2	33	28
		Yearly		**Conductivity**	**deciSiemens/ m**	2	2	0.11	0.13
		3 years		***Aggregate stability**	**As approp.**	**2**	**2**	**Class3 Sub(2)**	**Class 2 Sub(1)**
		Yearly		**Nitrate**	**mg/kg**	2	2	25	26
		Yearly		**pH**	**pH**	2	2	5.7	6.3
		Yearly		**Exchangeable Sodium**	**centimoles of positive charge per kg of soil**	2	2	0.15	0.7
		Yearly		**Exchangeable Calcium**	**centimoles of positive charge per Kg of soil**	2	2	5.3	7.4
		Yearly		**Exchangeable Magnesium**	**centimoles of positive charge/kg of soil**	2	2	1.42	5.54

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
EPA 2	**Pivot B**	**Yearly**	22/01/22	**Exchangeable Potassium**	**centimoles of positive charge/kg of soil**	2	2	1.65	1.47
		Yearly		**Available Phosphorus**	**mg/kg**	2	2	203	34
		3 years		***Clay Dispersion**	**As approp.**	2	2	40	23
		Yearly		**Conductivity**	**deciSiemens/ m**	2	2	0.9	0.18
		3 years		***Aggregate stability**	**As approp.**	2	2	Class3 Sub(2)	Class2 Sub(1)
		Yearly		**Nitrate**	**mg/kg**	2	2	4	22
		Yearly		**pH**	**pH**	2	2	6.6	7.6
		Yearly		**Exchangeable Sodium**	**centimoles of positive charge per kg of soil**	2	2	0.12	0.83
		Yearly		**Exchangeable Calcium**	**centimoles of positive charge per Kg of soil**	2	2	5.16	12.6
		Yearly		**Exchangeable Magnesium**	**centimoles of positive charge/kg of soil**	2	2	2.29	5.16
EPA 3	**Pivot C**	**Yearly**	22/01/22	**Exchangeable Potassium**	**centimoles of positive charge/kg of soil**	2	2	2.36	4.72
		Yearly		**Available Phosphorus**	**mg/kg**	2	2	213	52
		3 Years		***Clay Dispersion**	**As approp.**	2	2	43	52

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
		Yearly		Conductivity	deciSiemens/ m	2	2	0.21	0.16
		3 Years		*Aggregate stability	As approp.	2	2	Class3 Sub(3)	Class2 Sub(1)
		Yearly		Nitrate	mg/kg	2	2	32	14
		Yearly		pH	pH	2	2	6.6	7
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	034	0.33
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	5.9	3.06
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	2.11	1.88
EPA 4	BPA	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	2.5	0.70
		Yearly		Available Phosphorus	mg/kg	2	2	230	13
		3 years		*Clay Dispersion	As approp.	2	2	33	11
		Yearly		Conductivity	deciSiemens/ m	2	2	0.15	0.25
		3 years		*Aggregate stability	As approp.	2	2	Class3 Sub(3)	Class4
		Yearly		Nitrate	mg/kg	2	2	16	5
		Yearly		pH	pH	2	2	7.2	8
		Yearly		Exchangeable Sodium	centimoles of positive	2	2	0.41	1.83

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
					charge per kg of soil				
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	14.8	33
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	6.59	13.6
EPA 5	BPB	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	2.81	0.77
		Yearly		Available Phosphorus	mg/kg	2	2	244	29
		3 years		*Clay Dispersion	As approp.	2	2	21	24
		Yearly		Conductivity	deciSiemens/m	2	2	0.2	0.26
		3 years		*Aggregate stability	As approp.	2	2	Class3 Sub(3)	Class3 Sub(2)
		Yearly		Nitrate	mg/kg	2	2	13	8
		Yearly		pH	pH	2	2	7.8	8.4
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.56	1.94
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	13.4	28.2
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	5.78	11.2

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
EPA 6	**BPC**	**Yearly**	22/01/22	**Exchangeable Potassium**	**centimoles of positive charge/kg of soil**	2	2	2.48	9.21
		Yearly		**Available Phosphorus**	**mg/kg**	2	2	5.8	14
		3 years		***Clay Dispersion**	**As approp.**	2	2	19	9
		Yearly		**Conductivity**	**deciSiemens/ m**	2	2	0.19	2.7
		3 years		***Aggregate stability**	**As approp.**	2	2	Class3 Sub(2)	Class4
		Yearly		**Nitrate**	**mg/kg**	2	2	13	14
		Yearly		**pH**	**pH**	2	2	8.3	7.47.7
		Yearly		**Exchangeable Sodium**	**centimoles of positive charge per kg of soil**	2	2	0.86	1.71
		Yearly		**Exchangeable Calcium**	**centimoles of positive charge per Kg of soil**	2	2	15.6	57.5
		Yearly		**Exchangeable Magnesium**	**centimoles of positive charge/kg of soil**	2	2	7.6	7.5
EPA 7	**BPD**	**Yearly**	22/01/22	**Exchangeable Potassium**	**centimoles of positive charge/kg of soil**	2	2	1.84	0.78
		Yearly		**Available Phosphorus**	**mg/kg**	2	2	195	109
		3 years		***Clay Dispersion**	**As approp.**	2	2	24	10
		Yearly		**Conductivity**	**deciSiemens/ m**	2	2	0.41	3.45

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
		3 years		*Aggregate stability	As approp.	2	2	Class3 Sub(3)	Class4
		Yearly		Nitrate	mg/kg	2	2	4	3
		Yearly		pH	pH	2	2	8.2	7.3
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	2.64	5.65
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	16.5	67
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	9.22	9.22
EPA 8	BPE	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.69	0.8
		Yearly		Available Phosphorus	mg/kg	2	2	205	43
		3 years		*Clay Dispersion	As approp.	2	2	25	67
		Yearly		Conductivity	deciSiemens/m	2	2	0.17	0.68
		3 years		*Aggregate stability	As approp.	2	2	Class2 Sub(1)	Class1
		Yearly		Nitrate	mg/kg	2	2	14	6
		Yearly		pH	pH	2	2	7.5	8.8
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	1.06	5.52

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	11.4	11.4
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	6.85	11.4
EPA 9	BPF	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	3.38	0.66
		Yearly		Available Phosphorus	mg/kg	2	2	339	7.0
		3 years		*Clay Dispersion	As approp.	2	2	26	24
		Yearly		Conductivity	deciSiemens/m	2	2	0.23	0.24
		3 years		*Aggregate stability	As approp.	2	2	Class2 sub(1)	Class3 Sub(4)
		Yearly		Nitrate	mg/kg	2	2	19	10
		Yearly		pH	pH	2	2	7.9	8.0
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.87	1.48
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	14.2	17.3
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	7.85	8.02
EPA 10	BPG	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive	2	2	2.51	0.73

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
					charge/kg of soil				
		Yearly		Available Phosphorus	mg/kg	2	2	322	9.1
		3 years		*Clay Dispersion	As approp.	2	2	25	66
		Yearly		Conductivity	deciSiemens/ m	2	2	0.23	0.38
		3 years		*Aggregate stability	As approp.	2	2	Class3 Sub(3)	Class1
		Yearly		Nitrate	mg/kg	2	2	10	7
		Yearly		pH	pH	2	2	8.1	9.5
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	1.26	4.83
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	11.9	16.4
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	7.18	11.4
EPA 11	BPH	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	2.06	0.57
		Yearly		Available Phosphorus	mg/kg	2	2	184	8.4
		3 years		*Clay Dispersion	As approp.	2	2	28	40
		Yearly		Conductivity	deciSiemens/ m	2	2	0.10	0.25
		3 years		*Aggregate stability	As approp.	2	2	Class2 Sub(2)	Class2 Sub(3)
				Nitrate	mg/kg	2	2	6	7

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
		Yearly							
		Yearly		pH	pH	2	2	8.0	8.8
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	1.16	3.31
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	12.2	12.8
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	8.4	10.9
EPA 12	BPI	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	2.46	0.72
		Yearly		Available Phosphorus	mg/kg	2	2	210	17
		3 years		*Clay Dispersion	As approp.	2	2	29	
		Yearly		Conductivity	deciSiemens/m	2	2	0.12	0.34
		3 years		*Aggregate stability	As approp.	2	2	Class2 Sub(1)	Class2 Sub(3)
		Yearly		Nitrate	mg/kg	2	2	8	14
		Yearly		pH	pH	2	2	7.1	7.7
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.68	2.26
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	10.4	16

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	6.99	9.3
EPA 13	BPJ	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.85	0.7
		Yearly		Available Phosphorus	mg/kg	2	2	206	13
		3 years		*Clay Dispersion	As approp.	2	2	27	41
		Yearly		Conductivity	deciSiemens/m	2	2	0.17	0.49
		3 years		*Aggregate stability	As approp.	2	2	Class2 Sub(2)	Class3 Sub(3)
		Yearly		Nitrate	mg/kg	2	2	6	12
		Yearly		pH	pH	2	2	7.2	8.3
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.75	4.52
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	12.6	23.1
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	8.89	14.5
EPA 14	BPK	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.78	0.94
		Yearly		Available Phosphorus	mg/kg	2	2	219	36

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
		3 years		*Clay Dispersion	As approp.	2	2	26	54
		Yearly		Conductivity	deciSiemens/ m	2	2	0.12	0.49
		3 years		*Aggregate stability	As approp.	2	2	Class2 Sub(2)	Class3 Sub(1)
		Yearly		Nitrate	mg/kg	2	2	10	3
		Yearly		pH	pH	2	2	7.3	8.1
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.72	2.46
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	10.7	23.4
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	7.97	11.0
EPA 15A	BP DRY	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	0.58	0.54
		Yearly		Available Phosphorus	mg/kg	2	2	48	7.7
		3 years		*Clay Dispersion	As approp.	2	2	41	25
		Yearly		Conductivity	deciSiemens/ m	2	2	<0.05	<0.05
		3 years		*Aggregate stability	As approp.	2	2	Class3 Sub(3)	Class2 Sub(1)
		Yearly		Nitrate	mg/kg	2	2	3	4
		Yearly		pH	pH	2	2	6.5	6.9

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
		Yearly		Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.02	0.12
		Yearly		Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	4.32	5.85
		Yearly		Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	1.66	4.95
EPA 15B	BP DRY	Yearly	22/01/22	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	0.86	0.66
				Available Phosphorus	mg/kg	2	2	39	74
				*Clay Dispersion	As approp.	2	2	49	34
				Conductivity	deciSiemens/m	2	2	0.81	045
				*Aggregate stability	As approp.	2	2	Class2 Sub(2)	Class2 Sub(2)
				Nitrate	mg/kg	2	2	4	4
				pH	pH	2	2	7.0	9.2
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	1.05	4.47
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	6.4	22.7
				Exchangeable Magnesium	centimoles of positive	2	2	50.9	13.1

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Pollutant	Units of Measure	Number of samples required	Number of samples collected and analysed	0-10 cm depth	50-60 cm depth
					charge/kg of soil				
EPA 26	**BPL**	**Yearly**	22/01/22	**Exchangeable Potassium**	**centimoles of positive charge/kg of soil**	2	2	0.89	0.55
		Yearly		**Available Phosphorus**	**mg/kg**	2	2	117	24
		3 years		***Clay Dispersion**	**As approp.**	2	2	25	55
		Yearly		**Conductivity**	**deciSiemens/ m**	2	2	0.53	0.42
		3 years		***Aggregate stability**	**As approp.**	2	2	Class8	Class2 Sub(2)
		Yearly		**Nitrate**	**mg/kg**	2	2	3	8
		Yearly		**pH**	**pH**	2	2	6.6	7.0
		Yearly		**Exchangeable Sodium**	**centimoles of positive charge per kg of soil**	2	2	0.19	0.19
		Yearly		**Exchangeable Calcium**	**centimoles of positive charge per Kg of soil**	2	2	5.4	3.85
		Yearly		**Exchangeable Magnesium**	**centimoles of positive charge/kg of soil**	2	2	1.93	1.8
		3 Years		***Phosphorus Sorption capacity**	**mg/kg**	2	2	187	193

*** 3 Yearly Monitoring – Last undertaken – this year, due next in 2024**