

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 2020 – JANUARY 2021				

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						
рН	рН	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

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
рН	рН	Every 6 months	Representative Sample

Point 17,18,19,20,21,22,23

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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
рН	рН	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

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
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
рН	рН	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

Trending Level A: Figures 2 - 8

				-		Pollutants					
EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Sampling Sub-location	Date of Sampling	Ammonia (mg/l)	Conductivity (microSiemens/cm)	Nitrate (mg/l)	рН	Orthophosphate (mg/l)	Standing Water Level (metres)	
EPA 16	Interceptor Tail 6 month	6 months	Interceptor	10.06.2020	1.1	2110	20	7.88	0.87	3	
EFA 10	Drain	omonths	Tail Drain	09.12.2020	Dry bore						
			R11A	10.06.2020	0.24	7580	51	7.38	0.57	13.9	
		1 6 months	R11A	09.12.2020	15	7880	47	7.39	1.5	14	
554.47	R11		R11B	10.06.2020	Dry bore	ore					
EPA 17	RTT		R11B	09.12.2020	Dry bore						
			R11C	10.06.2020	Dry bore						
			R11C	09.12.2020	Dry bore						
			R12A	10.06.2020	0.069	13900	75	6.78	0.17	10.7	
			R12A	09.12.2020	0.028	11000	120	7.10	0.21	9.3	
			R12B	10.06.2020	0.024	13800	77	6.96	0.12	10.8	
EPA 18	R12	6 months	R12B	09.12.2020	<0.005	11700	110	6.83	0.21	8.4	
			R12C	10.06.2020	Dry bore			•			
			R12C	09.12.2020	Dry bore						
EPA 19	R15	6 months	R15A	10.06.2020	0.10	5990	0.31	7.41	0.028	8.9	

				-		Pollutants								
EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Sampling Sub-location	Date of Sampling	Ammonia (mg/l)	Conductivity (microSiemens/cm)	Nitrate (mg/l)	рН	Orthophosphate (mg/l)	Standing Water Level (metres)				
			R15A	09.12.2020	<0.005	5820	0.13	7.35	0.036	8.7				
			R15B	10.06.2020	0.21	6550	0.15	7.55	0.026	8.9				
			R15B	09.12.2020	0.36	6210	0.19	7.40	0.020	8.7				
			R15C	10.06.2020	Dry bore									
			R15C	09.12.2020	Dry bore									
EPA 20	R16	6 months	R16	10.06.2020	Dry bore									
EPA 20	RIO	6 months	R16	09.12.2020	Dry bore	Dry bore								
554.04	D47 0 mor	0	R17	10.06.2020	Dry bore									
EPA 21	R17	6 months	R17	09.12.2020	Dry bore									
			BP9A	10.06.2020	0.018	31400	3.5	7.51	0.053	4.7				
EPA 22	BP9	C m an tha	BP9A	09.12.2020	<0.005	31400	4.2	7.62	0.055	4.6				
EPA 22	BP9	6 months	BP9B	10.06.2020	3.9	31300	2.5	7.49	0.26	4.7				
			BP9B	09.12.2020	<0.005	21400	3.2	7.56	0.16	4.6				
			BP10A	10.06.2020	0.74	31900	0.38	7.38	0.19	9.9				
EPA 23	BP10	6 months	BP10A	09.12.2020	<0.005	30800	1.1	7.63	0.20	7.1				
EFA 23	BFIU	6 months	BP10B	10.06.2020	Dry bore									
		BP10B	09.12.2020	Dry bore										
EPA 24	Tailwater	Special Frequency 1*	Tailwater did no	ot fill to over 80%	% of its capacity, no sam	ples required								
EPA 25	Boree Tailwater	Special Frequency 1*	Tailwater did no	ot fill to over 80%	% of its capacity, no sam	ples required								

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

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Figure 2: R11A Results Trending. 2020 results within historical range, with the exception of ionic forms of nitrogen (ammonia and nitrate) which are elevated. Nitrate levels are within an order of magnitude of historic results and may be indicative of effluent irrigation impacting groundwater through the soil strata as EC is also considered to be above the background range. The elevated ammonia result for December 2020 is under investigation and to be retested Q1 2021.

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Figure 3: R12A Results Trending. 2020 results within historical range for SWL, ortho-phosphorous and pH. Nitrate is trending upwards and EC is decreasing. This may be indicative of clay soils buffering cation migration through the soil profile, while seepage of nitrate anions to the underlying groundwater is less constrained. 2021 monitoring program will investigate the potentially increasing trend.



Figure 4: R15A Results Trending. Results within historical range however an overall increasing trend in the SWL is apparent (note inverse scale for SWL reported as 'depth-to-water').



Figure 5:R15B Trending. Results within historical range.

Riverina Environmental Monitoring Report Date of last revision: 25 February 2021



Figure 6: R16 Trending. Insufficient water to obtain sample in 2020. The ammonia concentration recorded for early 2017 (9.5mg/L) and the low nitrate in 2016 is thought to be anomalies due to potential sample interference or reporting error.

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Figure 7: BP9A Trending. Results for 2020 typically within the historical range, with a slight increase in EC and Nitrate. 2021 monitoring program will investigate potentially increasing trends for these parameters.



Figure 8: BP9B Trending. Results typically within historical range, with the exception of an anomalous ammonia spike in mid-2020 corresponding to a decrease in nitrate. This may have been associated with a temporary variation of the reduction-oxidation (redox) potential of groundwater resulting in reduction of nitrate to ammonia, however there is insufficient data to confirm this. 2021 monitoring program will further investigate these parameters.

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Figure 9: BP10A Trending. Results within historical range with the exception of nitrate. 2021 monitoring program will investigate potentially increasing trends for this parameter.

Type: Soil Quality Monitoring

Frequency: Yearly / 3 Years

Interpretation: Premise Consulting Report 2020

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	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.76	1.00						
				Available Phosphorus	mg/kg	2	2	155	3						
		*Clay DispersionAs approp.ConductivitydeciSiemens/ m2*Aggregate stabilityAs approp.									As approp.				
					Conductivity		2	2	0.96	1.44					
				Nitrate	mg/kg	2	2	19	50						
							рН	рН	2	2	6.8	7.9			
			Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.234	0.789							
			Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	3.59	6.02							

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
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	1.09	3.63
EPA 2	Pivot B	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.62	0.796
				Available Phosphorus	mg/kg	2	2	121	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	1.28	2.4
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	25	62
				рН	рН	2	2	6.8	7.6
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.309	1.33
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	4.44	6.03
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	1.42	4.37
EPA 3	Pivot C	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.65	0.813
				Available Phosphorus	mg/kg	2	2	126	3

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
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	0.8	0.56
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	8.8	11
				рН	рН	2	2	7.6	8.3
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.344	0.594
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	6.46	4.63
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	2.41	1.68
EPA 4	BPA	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.84	0.778
				Available Phosphorus	mg/kg	2	2	219	21
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	0.96	0.8
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	27	22
				рН	рН	2	2	6.1	7.4
				Exchangeable Sodium	centimoles of positive	2	2	0.224	0.397

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				
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	3.85	3.79
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	1.2	1.75
EPA 5	BPB	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	0.618	0.572
				Available Phosphorus	mg/kg	2	2	3	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	0.4	1.76
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	0.1	6.8
				рН	рН	2	2	7.1	8.7
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.74	0.56
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	1.82	3.36
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	1.51	6.28
EPA 6	BPC	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive	2	2	3.25	0.782

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				
				Available Phosphorus	mg/kg	2	2	286	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	3.12	18
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	49	10
				рН	рН	2	2	7.8	7.7
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.944	1.99
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	14.2	32.3
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	5.84	7.09
EPA 7	BPD	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	2.27	1.18
				Available Phosphorus	mg/kg	2	2	281	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	1.68	6.24
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	6.6	3.4

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
				рН	рН	2	2	8.5	8.6
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	2.01	5.65
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	13.1	15.2
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	7	10.7
EPA 8	BPE	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	0.822	0.532
				Available Phosphorus	mg/kg	2	2	3	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	1.36	6.72
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	8.1	2.5
				рН	рН	2	2	7.6	9
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	2.91	11.5
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	5.99	15
				Exchangeable Magnesium	centimoles of positive	2	2	7.31	12.6

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 9	BPF	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	2.66	2.2
				Available Phosphorus	mg/kg	2	2	337	236
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	4.4	1.92
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	85	35
				рН	рН	2	2	7.2	7.6
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.91	1.09
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	14.4	14.4
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	8.29	8.54
EPA 10	BPG	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	2.64	1.99
				Available Phosphorus	mg/kg	2	2	346	16
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	3.04	1.6

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
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	85	19
				рН	рН	2	2	8	8.8
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.955	2.89
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	11.8	13.3
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	8.1	12.2
EPA 11	BPH	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.27	1.2
				Available Phosphorus	mg/kg	2	2	3	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	0.4	0.24
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	1.9	1.7
				рН	рН	2	2	7.1	8
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.159	0.77
				Exchangeable Calcium	centimoles of positive	2	2	3.84	5.25

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				
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	1.35	6.87
EPA 12	BPI	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	3.07	0.785
				Available Phosphorus	mg/kg	2	2	350	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	3.84	3.36
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	49	6.8
				рН	рН	2	2	7.5	8.6
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.99	5.38
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	11	12.8
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	7.39	9.25
EPA 13	BPJ	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	3.22	1.72
				Available Phosphorus	mg/kg	2	2	311	15

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
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	3.92	3.2
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	80	22
				рН	рН	2	2	8.1	8.7
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	1	4.19
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	12.1	13.8
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	8.04	12.7
EPA 14	ВРК	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	2.64	2.16
				Available Phosphorus	mg/kg	2	2	255	74
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	0.8	0.72
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	28	6.5
				рН	pН	2	2	7.2	7.9
				Exchangeable Sodium	centimoles of positive	2	2	0.446	1.4

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				
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	9.61	9.96
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	7.75	10.4
EPA 15	BP DRY	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	0.681	0.639
				Available Phosphorus	mg/kg	2	2	3	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	0.24	0.56
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	1.1	4.5
				рН	рН	2	2	6.7	7.9
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.222	1.83
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	1.91	2.96
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	0.615	4.61
EPA 26	BPL	Yearly	13/10/20	Exchangeable Potassium	centimoles of positive	2	2	1.1	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/kg of soil				
				Available Phosphorus	mg/kg	2	2	53	3
				*Clay Dispersion	As approp.				
				Conductivity	deciSiemens/ m	2	2	0.4	0.32
				*Aggregate stability	As approp.				
				Nitrate	mg/kg	2	2	4.3	4.6
				рН	рН	2	2	7.1	8.3
				Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.472	1.34
				Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	3.98	5.26
				Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	2.24	6.92

* 3 Yearly Monitoring – Last undertaken in 2018, due next in 2021