



ENVIRONMENTAL MONITORING REPORT JBS PRIME CITY FEEDLOT

Environment Protection Licence Summary	
Licence (EPL) Number:	5275
Licensee's Name:	JBS Australia Pty Limited
Premises Address:	Prime City Feedlot, Jones Road, Tabbita NSW 2652
Reporting Year:	DECEMBER 2019 – DECEMBER 2020

EPA Monitoring Requirements –JBS Prime City

Point 3			
Pollutant	Units of Measure	Frequency	Sampling Method
Biochemical Oxygen Demand (BOD)	mg/L	Special Frequency 1	Representative sample
Conductivity	microsiemens/cm	Special Frequency 1	Representative sample
Nitrogen (total)	mg/l	Special Frequency 1	Representative sample
pH	pH	Special Frequency 1	Representative sample
Phosphorus (total)	mg/L	Special Frequency 1	Representative sample
Total Suspended Solids	mg/L	Special Frequency 1	Representative sample

For the purposes of the table(s) above Special Frequency 1 means the collection of samples for each discharge from the holding pond taken as soon as practicable following every discharge event.

Point 5, 6			
Pollutant	Units of Measure	Frequency	Sampling Method
Available Phosphorus	mg/kg	Yearly	Special Method 1
Bulk Density	kg/m ³	3 years	Special Method 1
Cation Exchange Capacity	centimoles of positive charge/Kg of soil	Yearly	Special Method 1
Chloride	mg/kg	Yearly	Special Method 1
Conductivity	deciSiemens/M	Yearly	Special Method 1
Exchangeable Calcium	centimoles of positive charge per Kg of soil	Yearly	Special Method 1

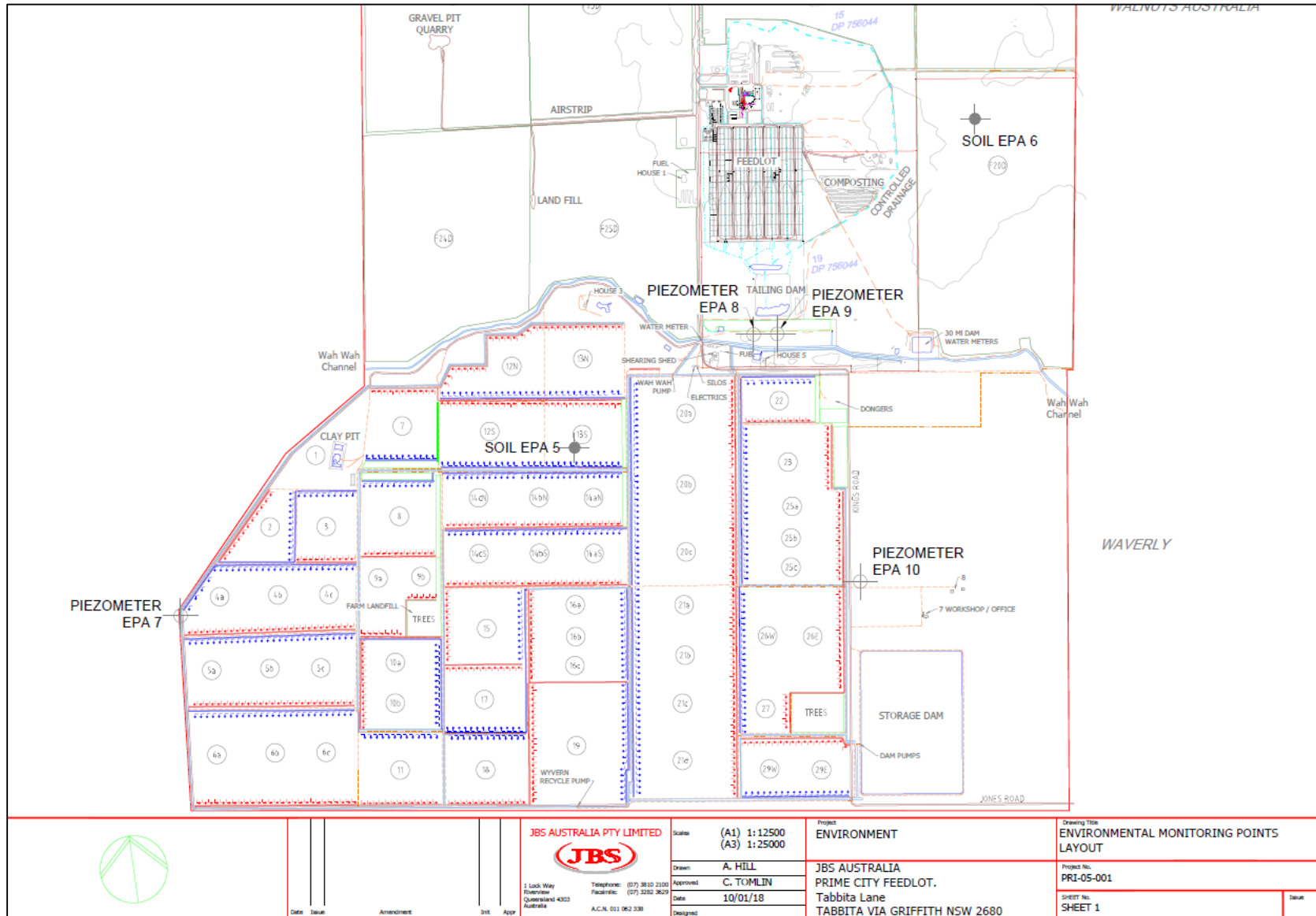
Point 5, 6			
Exchangeable Magnesium	centimoles of positive charge/Kg of soil	Yearly	Special Method 1
Exchangeable Potassium	centimoles of positive charge/Kg of soil	Yearly	Special Method 1
Exchangeable Sodium	centimoles of positive charge per Kg of soil	Yearly	Special Method 1
Nitrate	mg/Kg	Yearly	Special Method 1
pH	pH	Yearly	Special Method 1
Phosphorus Sorption Capacity	As approp.	3 Years	Special Method 1
Sodium Adsorption Ratio	Sodium adsorption ratio	Yearly	Special Method 1
Total organic carbon	percent	3 years	Special Method 1

Point 7, 8, 9, 10			
Pollutant	Units of Measure	Frequency	Sampling Method
Conductivity	microsiemens per cm	Quarterly	Representative sample
Nitrate (total)	Mg/L	Quarterly	Representative sample
Orthophosphate	Mg/L	Quarterly	Representative sample
pH	pH	Quarterly	Representative sample
Standing Water level	metres	Quarterly	Inspection

Data Gaps During this reporting Period

Licence Location	JBS sampling Location	Frequency	Period data is missing	Reason for missing data
<p>Q2 and Q3 groundwater sampling was not conducted. Anomaly pH and conductivity results for Point 7, Q4 excluded due to suspected sample process interference.</p> <p>Environmental Incident Reports 015-2021 and 016-2021 submitted to EPA.</p>				

JBS Prime City Feedlot – Environmental Monitoring Points



JBS Prime City Feedlot - Monitoring Results

Type: Groundwater Monitoring

Frequency: Quarterly

EPA Licence Location	JBS Sampling Location	Monitoring Frequency	Date of Sampling	Conductivity (microSiemens /cm)	Nitrate (mg/l)	pH	Orthophosphate (mg/l)	Standing Water Level (metres)
EPA 7	Piezometer 1	Quarterly	26.02.2020	15000	2.00	7.7	0.09	13.30
			Q2					
			Q3					
			10.12.2020	-	1.4	-	<0.05	14.00
EPA 8	Piezometer 2	Quarterly	26.02.2020	16000	5.3	7.6	<0.01	13.82
			Q2					
			Q3					
			10.12.2020	15000	4.8	7.2	<0.05	14.50
EPA 9	Piezometer 3	Quarterly	26.02.2020	11000	4.3	7.8	0.07	14.40
			Q2					
			Q3					
			10.12.2020	16000	4.9	7.2	<0.05	15.00
EPA 10	Piezometer 4	Quarterly	26.02.2020	11000	1.4	7.0	0.01	11.57
			Q2					
			Q3					
			10.12.2020	12000	0.19	6.8	<0.05	12.00

- Note: pH of (1.6) and conductivity of (3500 uS/cm) results deemed an anomaly and excluded due to suspected sample interference

Type: Soil Quality Monitoring

Frequency: Yearly / 3 Yearly

EPA Licence Location	JBS Sampling Location	Site Description	Monitoring Frequency	Date of Sampling	Analysis	Units of Measure	Number of samples required	Number of samples collected and analysed	0-15 cm depth	45-60 cm depth
EPA 5	Point "13s"	Grey Loam irrigated area	Yearly	13.10.2020	Conductivity	deciSiemens/m	2	2	0.15	0.21
					Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.663	2.76
					Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	6.74	13.1
					Nitrate	mg/mg	2	2	10	4.2
					*Total organic carbon	percent	0	0		
					pH	pH (1:5 water)	2	2	8.6	9.1
					Exchangeable Potassium	centimoles of positive charge/kg of soil	2	2	1.36	1
					*Bulk Density	kg/m3	0	0		
					Sodium Adsorption Ratio	Sodium adsorption ratio	2	2	0.6	1.5
					Available Phosphorus	mg/kg	2	2	35	<3
					Cation Exchange Capacity	centimoles of positive charge/kg of soil	2	2	33.2	35.7
Chloride	mg/kg	2	2	60.2	85.5					

EPA Licence Location	JBS Sampling Location	Site Description	Monitoring Frequency	Date of Sampling	Analysis	Units of Measure	Number of samples required	Number of samples collected and analysed	0-15 cm depth	45-60 cm depth
					Phosphorus Sorption Capacity	As approp.	0	0		
					Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	24.4	18.8
EPA 6	Point "20D"	Red Sandy Loam dry land area	Yearly	13.10.2020	Conductivity	deciSiemens/m	2	2	0.04	0.45
					Exchangeable Sodium	centimoles of positive charge per kg of soil	2	2	0.373	2.73
					Exchangeable Magnesium	centimoles of positive charge/kg of soil	2	2	1.95	13
					Nitrate	mg/mg	2	2	0.46	6.2
					*Total organic carbon	percent	0	0		
					pH	pH (1:5 water)	2	2	6.2	7.65
					Exchangeable Potassium	centimoles of positive charge/kg of soil	0	0	1.26	1
					*Bulk Density	kg/m3	0	0		
					Sodium Adsorption Ratio	Sodium adsorption ratio	2	0	0.6	4.2
					Available Phosphorus	mg/kg	2	2	<3	<3
					Cation Exchange Capacity	centimoles of positive charge/kg of soil	2	2	7.1	35.9

EPA Licence Location	JBS Sampling Location	Site Description	Monitoring Frequency	Date of Sampling	Analysis	Units of Measure	Number of samples required	Number of samples collected and analysed	0-15 cm depth	45-60 cm depth
					Chloride	mg/kg	2	2	22.4	301
					Phosphorus Sorption Capacity	As approp.	0	0		
					Exchangeable Calcium	centimoles of positive charge per Kg of soil	2	2	3.5	19.1

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