



Environment Monitoring Report

March 2016

EPA Licence number: 1511

PO Box 123
Bega NSW 2550
Australia
Reception Ph: +61-2-6491 7777
Environment Line Ph: +61-2-6491 7691

Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Air	EPA 12-Air emissions monitoring, back up boiler PPU				0.35 g/m3	Yearly	
		Lab report number					
		Sampled date					
		Lab received date					
		Report received date					
	Summary		Testing is conducted yearly and is not required this month				
	EPA 22-Air emissions monitoring, main boiler PPU					0.35 g/m3	Yearly
		Lab report number					
		Sampled date					
		Lab received date					
Report received date							
Summary		Testing is conducted yearly and is not required this month					



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Air	EPA 24 - Air emissions monitoring, gas boiler stack DPU				0.35 g/m3	Yearly
		Nitrogen Oxides	0.088	g/m3		
		Lab report number	R002093			
		Sampled date	15/03/2016			
		Lab received date	15/03/2016			
		Report received date	24/03/2016			
		<u>Summary</u>				
Air	EPA 7- Air emissions monitoring, DPU boiler Stack				0.25 g/m3	Yearly
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
		<u>Summary</u> Testing is conducted yearly and is not required this month				



BEGA CHEESE
SINCE 1899

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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Air	EPA 8-Air emissions monitoring, Whey plant stack DPU				0.25 g/m3	Special frequency 2
		Particulate matter	0.13	g/m3		
		Lab report number	R002537			
		Sampled date	16/03/2016			
		Lab received date	17/03/2016			
		Report received date	6/05/2016			
<u>Summary</u>						



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Noise	L3.2 - Noise emissions during night time (10pm to 7am) at the most affected residential property				LA10(15 minutes) 45dB (A)	Yearly
		Lab report number				
		Sampled date				
		Report received date				
		Summary		Testing is conducted yearly and is not required this month		
Noise	L3.3 - Noise emissions during day time at the most affected residential property				LA1(15 minute) 53 dB (A)	Yearly
		Lab report number				
		Sampled date				
		Report received date				
		Summary		Testing is conducted yearly and is not required this month		



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Water & Land	EPA 1 – Volume monitoring from DPU to utilisation areas - The Ranch, Wet Weather Storage Dam, Angeldale Apps Farm West, Apps Farm East, Apps Flat, Rockleigh, Ubrihien & Factory Flats				none	Daily	
		Irrigation Days	31				
		Volume (Average)	1236	kL/day			
		Volume (Min-Max)	986 - 1486	kL/day			
		Sampled date	31/03/2016				
	<u>Summary</u>						
	EPA 23-Environmental monitoring subsurface drainage sump at WWSD					none	Quarterly
		Biochemical oxygen demand	5	mg/L			
		Conductivity	1300	µS/cm			
		Nitrate	0.11	mg/L			
PH		6.2					
Lab report number		N059292					
Sampled date		15/03/2016					
Lab received date		17/03/2016					
Report received date		24/03/2016					
<u>Summary</u>							



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 25 - 'Control' Groundwater monitoring point at corner of Daisy Hill & Buckajo Rd				none	Quarterly
		Conductivity	870	µS/cm		
		Depth	1.60	m		
		Nitrate	3.7	mg/L		
		Nitrogen (total)	4.8	mg/L		
		Phosphorus (total)	0.034	mg/L		
		PH	6.6			
		Available phosphorus	0.012	mg/L		
		Lab report number	N059395			
		Sampled date	15/03/2016			
		Lab received date	17/03/2016			
		Report received date	31/03/2016			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 26 - Groundwater monitoring point at 'The Ranch' fenceline				none	Quarterly
		Conductivity	1700	µS/cm		
		Depth	3.70	m		
		Nitrate	0.13	mg/L		
		Nitrogen (total)	0.41	mg/L		
		Phosphorus (total)	0.025	mg/L		
		PH	6.6			
		Available phosphorus	0.004	mg/L		
		Lab report number	N059396			
		Sampled date	15/03/2016			
		Lab received date	17/03/2016			
		Report received date	31/03/2016			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 27 - Groundwater monitoring point at Bega River crossing, Factory Flats				none	Quarterly
		Conductivity	890	µS/cm		
		Depth	4.60	m		
		Nitrate	2.3	mg/L		
		Nitrogen (total)	2.7	mg/L		
		Phosphorus (total)	0.012	mg/L		
		PH	6.2			
		Available phosphorus	0.004	mg/L		
		Lab report number	N059396			
		Sampled date	15/03/2016			
		Lab received date	17/03/2016			
		Report received date	31/03/2016			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 28 - Groundwater monitoring point at Apps Farm near bridge				none	Quarterly
		Conductivity	1100	µS/cm		
		Depth	4.70	m		
		Nitrate	0.28	mg/L		
		Nitrogen (total)	1.8	mg/L		
		Phosphorus (total)	0.023	mg/L		
		PH	6.7			
		Available phosphorus	0.004	mg/L		
		Lab report number	N059396			
		Sampled date	15/03/2016			
		Lab received date	17/03/2016			
		Report received date	31/03/2016			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 29 - Groundwater monitoring point at Apps Farm, east river flats				none	Quarterly
		Conductivity	1200	µS/cm		
		Depth	5.65	m		
		Nitrate	0.02	mg/L		
		Nitrogen (total)	1	mg/L		
		Phosphorus (total)	0.02	mg/L		
		PH	6.2			
		Available phosphorus	0.004	mg/L		
		Lab report number	N059397			
		Sampled date	15/03/2016			
		Lab received date	17/03/2016			
		Report received date	31/03/2016			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 30 - Groundwater monitoring point at Apps/Ubrihien farm south				none	Quarterly
		Conductivity	250	µS/cm		
		Depth	5.55	m		
		Nitrate	0.24	mg/L		
		Nitrogen (total)	1.4	mg/L		
		Phosphorus (total)	0.053	mg/L		
		PH	6.5			
		Available phosphorus	0.004	mg/L		
		Lab report number	N059397			
		Sampled date	15/03/2016			
		Lab received date	17/03/2016			
		Report received date	31/03/2016			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 31 - 'Control' Groundwater monitoring point at Ubrihien farm west				none	Quarterly
		Conductivity	1000	µS/cm		
		Depth	6.60	m		
		Nitrate	2.2	mg/L		
		Nitrogen (total)	2.5	mg/L		
		Phosphorus (total)	0.024	mg/L		
		PH	5.9			
		Available phosphorus	0.004	mg/L		
		Lab report number	N059397			
		Sampled date	15/03/2016			
		Lab received date	17/03/2016			
		Report received date	31/03/2016			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 5-Effluent quality monitoring, DPU holding tanks 1 & 2				none	Monthly
		Biochemical oxygen demand	3250	mg/L		
		Conductivity	3310	µS/cm		
		Faecal coliforms	630000	cfu/100 ml		
		Nitrate	1	mg/L		
		Nitrogen (total)	250	mg/L		
		Phosphorus (total)	41	mg/L		
		Sodium	385	mg/L		
		Sodium adsorption ratio	14			
		Total suspended solids	810	mg/L		
		PH	8.94			
		Lab report number	N059734			
		Sampled date	31/03/2016			
		Lab received date	1/04/2016			
		Report received date	12/04/2016			
<u>Summary</u>						



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 6-Effluent quality & discharge volume monitoring from WWSD holding tank to utilisation areas 'The Ranch' and 'Grevillea'				none	Special frequency 1
		Biochemical oxygen demand	380	mg/L		
		Conductivity	5100	µS/cm		
		Faecal coliforms	10000	cfu/100 ml		
		Nitrate	1	mg/L		
		Nitrogen (total)	170	mg/L		
		Phosphorus (total)	54	mg/L		
		Sodium	610	mg/L		
		Sodium adsorption ratio	12			
		Total suspended solids	360	mg/L		
		PH	7.67			
		Irrigation Days	21			
		Volume (Average)	1500	kL/day		
		Volume (Min-Max)	371 - 2793	kL/day		
		Lab report number	N059209			
		Sampled date	7/03/2016			
		Lab received date	8/03/2016			
		Report received date	21/03/2016			
<u>Summary</u>						



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Glossary

Abbreviation	Description
DPU	Dairy Processing Unit, Lagoon St
Lab	Laboratory
PPU	Processing & Packaging Plant, Ridge St
special frequency 1	Monthly sampling during discharge from point 6 during any month that discharge occurs
special frequency 2	Annual sampling of two samples: sample 1 collected no more than 1 hour before the stack is washed, and sample 2 collected no more than 1 hour after the stack is washed.
WWSD	Wet weather storage dam