



Environment Monitoring Report

October 2013

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	
		Lab report number					
		Sampled date					
		Lab received date					
		Report received date					
	Summary		Testing is conducted yearly and is not required this month				
	EPA 7- Air emissions monitoring, DPU boiler Stack					0.25 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					



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
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
<p><u>Summary</u> Testing is conducted yearly and is not required this month</p>						



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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)	1374	kL/day			
		Volume (Min-Max)	1016 - 1611	kL/day			
		Sampled date	31/10/2013				
	<u>Summary</u>						
	EPA 23-Environmental monitoring subsurface drainage sump at WWSD					none	Quarterly
		Lab report number					
		Sampled date	31/10/2013				
		Lab received date					
Report received date							
<u>Summary</u>							
Nil water flow in sump. A sample could not be collected.							



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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	900	µS/cm		
		Depth	2.40	m		
		Nitrate	0.02	mg/L		
		Nitrogen (total)	0.64	mg/L		
		Phosphorus (total)	0.33	mg/L		
		PH	6.39			
		Available phosphorus	0.25	mg/L		
		Lab report number	N043442			
		Sampled date	22/10/2013			
		Lab received date	23/10/2013			
		Report received date	6/11/2013			
		<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	1100	µS/cm		
		Depth	3.80	m		
		Nitrate	0.03	mg/L		
		Nitrogen (total)	0.25	mg/L		
		Phosphorus (total)	0.04	mg/L		
		PH	6.54			
		Available phosphorus	0.014	mg/L		
		Lab report number	N043442			
		Sampled date	22/10/2013			
		Lab received date	23/10/2013			
		Report received date	6/11/2013			
		<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	900	µS/cm		
		Depth	4.65	m		
		Nitrate	1.9	mg/L		
		Nitrogen (total)	2.3	mg/L		
		Phosphorus (total)	0.08	mg/L		
		PH	6.07			
		Available phosphorus	0.007	mg/L		
		Lab report number	N043442			
		Sampled date	22/10/2013			
		Lab received date	23/10/2013			
		Report received date	6/11/2013			
		<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	2100	µS/cm		
		Depth	4.90	m		
		Nitrate	0.01	mg/L		
		Nitrogen (total)	2	mg/L		
		Phosphorus (total)	0.12	mg/L		
		PH	6.53			
		Available phosphorus	0.004	mg/L		
		Lab report number	N043442			
		Sampled date	22/10/2013			
		Lab received date	23/10/2013			
		Report received date	6/11/2013			
		<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	1169	µS/cm		
		Depth	5.80	m		
		Nitrate	0.01	mg/L		
		Nitrogen (total)	1	mg/L		
		Phosphorus (total)	0.18	mg/L		
		PH	6.96			
		Available phosphorus	0.004	mg/L		
		Lab report number	N043466			
		Sampled date	22/10/2013			
		Lab received date	23/10/2013			
		Report received date	6/11/2013			
		<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	398	µS/cm		
		Depth	5.68	m		
		Nitrate	0.001	mg/L		
		Nitrogen (total)	1.4	mg/L		
		Phosphorus (total)	0.41	mg/L		
		PH	6.98			
		Available phosphorus	0.098	mg/L		
		Lab report number	N043466			
		Sampled date	22/10/2013			
		Lab received date	23/10/2013			
		Report received date	6/11/2013			
		<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	790	µS/cm		
		Depth	6.62	m		
		Nitrate	1.7	mg/L		
		Nitrogen (total)	2.5	mg/L		
		Phosphorus (total)	0.03	mg/L		
		PH	6.1			
		Available phosphorus	0.004	mg/L		
		Lab report number	N043466			
		Sampled date	22/10/2013			
		Lab received date	23/10/2013			
		Report received date	6/11/2013			
		<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	2100	mg/L		
		Conductivity	2530	µS/cm		
		Faecal coliforms	100000	cfu/100 ml		
		Nitrate	15	mg/L		
		Nitrogen (total)	160	mg/L		
		Phosphorus (total)	46	mg/L		
		Sodium	550	mg/L		
		Sodium adsorption ratio	17			
		Total suspended solids	950	mg/L		
		PH	5.35			
		Lab report number	N043631			
		Sampled date	31/10/2013			
		Lab received date	6/11/2013			
		Report received date	18/11/2013			
<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	760	mg/L		
		Conductivity	1400	µS/cm		
		Faecal coliforms	11000000	cfu/100 ml		
		Nitrate	1	mg/L		
		Nitrogen (total)	65	mg/L		
		Phosphorus (total)	14	mg/L		
		Sodium	160	mg/L		
		Sodium adsorption ratio	8			
		Total suspended solids	340	mg/L		
		PH	6.8			
		Irrigation Days	23			
		Volume (Average)	776	kL/day		
		Volume (Min-Max)	60 - 1553	kL/day		
		Lab report number	N043439			
		Sampled date	28/10/2013			
		Lab received date	29/10/2013			
		Report received date	6/11/2013			
<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