



Environment Monitoring Report

December 2012

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 <u>Summary</u> Testing is conducted yearly and is not required this month					
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
		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
		Noise	49	dB(A)		
		Lab report number	121147-rep-rev1			
		Sampled date	13/12/2012			
		Lab received date	15/12/2013			
		Report received date	20/01/2013			
		Summary				
		Non-compliance for LA10 at one location assessed during night time assessment. Acoustic consultants engaged to proposed design changes to ensure compliance at the source points identified.				
Noise	L3.3 - Noise emissions during day time at the most affected residential property				LA1(15 minute) 53 dB (A)	Yearly
		Noise	48	dB(A)		
		Lab report number	121147-rep-rev1			
		Sampled date	14/12/2012			
		Lab received date	15/12/2012			
		Report received date	20/01/2013			
		Summary				
		compliant				



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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
		Nitrogen (total)	170	mg/L		
		Phosphorus (total)	55	mg/L		
		Available phosphorus	120	mg/L		
		Irrigation Days	31			
		Volume (Average)	1423	kL/day		
		Volume (Min-Max)	340 - 2000	kL/day		
		Lab report number	N038618			
		Sampled date	31/12/2012			
		Lab received date	3/01/2013			
		Report received date	11/01/2013			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 23-Environmental monitoring subsurface drainage sump at WWSD				none	Quarterly
		Biochemical oxygen demand	5	mg/L		
		Conductivity	2014	µS/cm		
		Nitrate	0.02	mg/L		
		PH	5.8			
		Lab report number	N038492			
		Sampled date	19/12/2012			
		Lab received date	20/12/2012			
		Report received date	31/12/2012			
		Summary				
Water & Land	EPA 25 - 'Control' Groundwater monitoring point at corner of Daisy Hill & Buckajo Rd				none	Quarterly
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
		Summary				
Testing is conducted quarterly and is not required this month						



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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
	Lab report number Sampled date Lab received date Report received date <u>Summary</u> Testing is conducted quarterly and is not required this month					
	EPA 27 - Groundwater monitoring point at Bega River crossing, Factory Flats				none	Quarterly
	Lab report number Sampled date Lab received date Report received date <u>Summary</u> Testing is conducted quarterly and is not required this month					



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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
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
		Summary				
		Testing is conducted quarterly and is not required this month				
Water & Land	EPA 29 - Groundwater monitoring point at Apps Farm, east river flats				none	Quarterly
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
		Summary				
		Testing is conducted quarterly and is not required this month				



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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
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
		Summary				
		Testing is conducted quarterly and is not required this month				
Water & Land	EPA 31 - 'Control' Groundwater monitoring point at Ubrihien farm west				none	Quarterly
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
		Summary				
		Testing is conducted quarterly and is not required this month				



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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	3000	mg/L		
		Conductivity	2590	µS/cm		
		Faecal coliforms	1000000000	cfu/100 ml		
		Nitrate	48	mg/L		
		Nitrogen (total)	170	mg/L		
		Phosphorus (total)	55	mg/L		
		Sodium	570	mg/L		
		Sodium adsorption ratio	18			
		Total suspended solids	660	mg/L		
		PH	5.91			
		Lab report number	N038618			
		Sampled date	31/12/2012			
		Lab received date	3/01/2012			
		Report received date	11/01/2013			
Summary						
Bega Cheese is discussing Faecal Coliform levels with the Environment Protection Authority.						



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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	600	mg/L		
		Conductivity	3650	µS/cm		
		Faecal coliforms	720000	cfu/100 ml		
		Nitrate	1	mg/L		
		Nitrogen (total)	150	mg/L		
		Phosphorus (total)	55	mg/L		
		Total suspended solids	150	mg/L		
		PH	7			
		Irrigation Days	2			
		Volume (Average)	340	kL/day		
		Volume (Min-Max)	310 - 370	kL/day		
		Lab report number	N038533			
		Sampled date	17/12/2012			
		Lab received date	18/12/2012			
		Report received date	3/01/2013			
<u>Summary</u>						
Bega Cheese is incorporating environment sampling into the site's laboratory information management system to reduce the risk of missed samples.						



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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