Dairy Effluent Storage Calculator Summary Report

Regional authority: Environment Southland Regional Council Landpro Limited Authorised agent: Client: Woldwide Five Ltd Program version: 1.50 Monday, 21 January 2019 **Report date:** General description: DESC prepared by Tanya Copeland and reviewed by Zen Gerente 1000 cows Mix of low and high risk soils Wash down water at 3 L/sec based on scraped yard Discharge via low rate pods at 1mm/hr restriction and via slurry tanker during summer months Solid effluent stored and dealt with in a separate system 343 m2 of additional catchment includes underpass effluent Current storage is 180m3 in above ground tanks

Climate

Rainfall site: Mean annual rainfall: Drummond Marson Rd 1061 mm/year

Effluent Block

Area of low risk soil: Minimum area of high risk soil: Surplus area of high risk soil: 59.2 hectares 70.9 hectares 0.0 hectares

Wash Water

Yard wash:			
- Milking season starts	:	01 August	
 Milking season ends: 		15 June	
Month	Number of Cows	Hours in Yard	Wash Volume (cubic metres)
January	1000	4.0	3.0
February	1000	4.0	3.0
March	1000	4.0	3.0
April	1000	4.0	3.0
May	1000	4.0	3.0
June	1000	4.0	3.0
July	0	0.0	0.0
August	500	4.0	3.0
September	750	4.0	3.0
October	1000	4.0	3.0
November	1000	4.0	3.0
December	1000	4.0	3.0

Irrigation

Winter-sp	oring d	epth:
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Spring-autumn depth: Winter-spring volume: Spring-autumn volume: Irrigate all year?

Catchments

Yard Area:	1200 square metres
Diverted?	Yes
- diversion start:	16 June
- diversion end:	31 July
Shed Roof Area:	440 square metres
Diverted?	Yes
Feedpad Area:	0 square metres
Covered?	No
Diverted?	No
Animal Shelter Area:	0 square metres
Covered?	Yes
Diverted?	No
Other Areas:	343 square metres

Storage

Pond/s present?	No
Tank/s present?	No
Emergency storage period:	0 days

Solids Separation

Solids separator/s prese	nt?
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Outputs

Maximum required storage pond volume: 90 % probability storage pond volume: During the period from: To: 614 cubic metres 335 cubic metres 01 July 1980 30 June 2013

No

2 mm 40 cubic metres 240 cubic metres Yes

