

DPF 201 - Assessment of Farm Dairy Water Status

Instructions for using this checklist

- This checklist must be completed by the farm dairy operator or nominated representative.
- The completed checklist must be signed, dated and held by the farm dairy operator and a copy made available to the operator of the farm dairy risk management programme where that is another person.
- Everyone must complete parts 1, 2 and all other relevant sections.
- The farm dairy assessor is required to review this checklist and assess the farm dairy water quality during the next farm dairy assessment.

Part 1: Supplier Details (Complete in all cases)

Name of farm dairy operator:	_____
Dairy company supplied:	_____
Supply number:	_____

Part 2: Farm Dairy Water Sources (Complete in all cases)

Indicate (✓) all water sources used in farm dairy.
 If you use more than one water source, complete the relevant parts of the questionnaire.
 If you use more than three water sources, complete additional checklist(s) as necessary.

	Water Source			
	1	2	3	
Rural/town supply (Supply under the control of local government authority)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Go to Part 3</i>
Deep groundwater (i.e. bore casing >10m depth)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Go to Part 4</i>
Surface water (e.g., spring, well, bore < 10m depth, river, lake, reservoir, roof)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Go to Part 5</i>

Part 3: Rural / Town Supply (Complete for community water supply sources only)

All community water supplies have a Ministry of Health grading which provides an assessment of the public health safety of the water to the population served by that supply. The grading has two letters, e.g. 'Cd'. The first letter (upper case) represents the quality of the water at its source after treatment, while the second letter (lower case) grades the water quality as it arrives at your gate. Gradings containing 'D' or 'd' indicate marginal quality, while lower gradings ('E' or 'e') show that the quality or risk management is unsatisfactory. Some community water supplies are not graded; these water supplies are listed as 'ungraded'. This grading information can be obtained from your local government authority or the Register of Community Drinking Water Supplies in New Zealand 2005 which is available at following website address: <http://www.moh.govt.nz/water>

Name the water supply and the grading e.g. 'Cd', or 'ungraded':

Source 1: Name	_____	Grading	_____
Source 2: Name	_____	Grading	_____
Source 3: Name	_____	Grading	_____

If the grading of any of these water supplies contains 'E', 'e' or 'ungraded' then you must either:

- (i) Develop a Water Management Plan detailing how the hazards will be eliminated or managed. The Plan must be agreed to by the farm dairy assessor, or operator of the farm dairy RMP where that is another person. Attach the Plan to this checklist (*Go to Part 6*); or
- (ii) Reassess that water supply as deep ground water (*Go to Part 4*) or surface water (*Go to Part 5*).

Part 4: Deep Groundwater (Complete for deep groundwater sources only)

Deep groundwater from depths of ten metres or more can generally be considered to be isolated from the influence of land-based activities. As such, a less rigorous hazard identification process is required for this type of water source.

Case depth (meters): Source 1: _____ Source 2: _____ Source 3: _____

If the depth of casing of any bore is less than 10 metres it must be assessed as surface water (*Go to Part 5*)

	Source 1		Source 2		Source 3	
	Yes	No	Yes	No	Yes	No
(a) Is the bore-head securely sealed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) Is the bore-head protected from animal access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c) Is the bore area safe from ponding and flooding?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d) Please describe any other potential hazards to your water supply that you are aware of:	_____ _____ _____					

If the answer to question (a), (b) or (c) is No for any of your water supplies, or you have identified any additional hazards, then you must either:

- (i) Develop a Water Management Plan detailing how the hazards will be eliminated or managed. The Plan must be agreed to by the farm dairy assessor, or operator of the farm dairy RMP where that is another person. Attach the Plan to this checklist (*Go to Part 6*); or
- (ii) Reassess that water supply as surface water (*Go to Part 5*).

Part 5: Surface Water (*Complete for surface water sources only*)

A wide range of land and water based activities can result in contamination of surface and shallow ground waters. Special care is therefore required to ensure that water taken from such sources is of suitable quality for use in farm dairies.

Describe each water source:

(e.g. spring, well, bore cased <10m, stream, river, dam, reservoir, lake, roof etc.):

Source 1: _____

Source 2: _____

Source 3: _____

	Source 1		Source 2		Source 3	
	Yes	No	Yes	No	Yes	No
(a) Are any of the following hazard sources within 45 metres of the farm dairy water supply?						
Offal pit/soak hole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Septic tank/long-drop toilet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Animal effluent to pasture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Silage stack	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land disposal site/refuse pit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical preparation/storage area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sumps, stock yards or feed pads not connected to an approved effluent system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(b) Do any of the following hazards, either inside or outside your farm, pose a threat to the quality of your farm dairy water supply?	Yes	No	Yes	No	Yes	No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Runoff/flooding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Animal access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Industrial or urban storm water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Industrial wastewater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Effluent discharges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Spray drift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If Yes, describe the activity and how it may affect your water quality:						
If the answer to any of the questions in (a), or (b) is 'Yes' for any of your water supplies, then you must develop a Water Management Plan detailing how the hazards will be eliminated or managed. The Plan must be agreed to by the farm dairy assessor, or operator of the farm dairy RMP where that is another person. Attach the Plan to this checklist.						

Part 6: Reticulation System (Complete in all cases)

The farm's water reticulation systems (pumps, tanks, pipes, valves etc) can result in contamination of the water supply if they are incorrectly designed or installed, poorly maintained or damaged.

	Yes	No
(a) Is there a veterinary dispensing system linked to the reticulation system for your farm dairy water supply?	<input type="checkbox"/>	<input type="checkbox"/>
(b) If the answer to (a) is yes, do you have systems in place for ensuring that chemicals do not get into the water and milk supply?	<input type="checkbox"/>	<input type="checkbox"/>
(c) Are the water holding tanks covered, the walls and roof watertight and protected from contamination by rain, snow-melt and pests?	<input type="checkbox"/>	<input type="checkbox"/>
(d) Where drains or overflow pipes from the tank empty into sewers or storm-water drains, are the outlets situated above the water level in the sewer/storm-water drains so that suck-back cannot occur?	<input type="checkbox"/>	<input type="checkbox"/>
(e) Are reticulation pipes protected from damage by machinery or stock?	<input type="checkbox"/>	<input type="checkbox"/>
(f) Are water tanks and the reticulation system inspected and maintained at least annually, and cleaned when necessary?	<input type="checkbox"/>	<input type="checkbox"/>
(g) Does water in the farm dairy remain clean and clear for the duration of the dairy season?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer to any of the questions (b) to (g) is No then you must:

Develop a Water Management Plan detailing how the hazards will be eliminated or managed. The Plan must be agreed to by the farm dairy assessor, or operator of the farm dairy RMP where that is another person. Attach the Plan to this checklist.

STOP HERE – WAIT FOR WATER QUALITY TO BE ASSESSED

Part 7: Water Quality Assessment (To be completed by the Farm Dairy Assessor)

Summary of water status and action arising from assessment :

	Yes	No
(a) Does the water meet the turbidity/clarity standard?	<input type="checkbox"/>	<input type="checkbox"/>
(b) Does the water meet the E. coli standard?	<input type="checkbox"/>	<input type="checkbox"/>
(c) Have any risks to the water supply been identified?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer to either (a) or (b) is 'No', or 'Yes' for (c) then a Water Management Plan is required.

Part 8: Water Management Plan *(To be completed where required)*

If:

- the farm dairy water fails to meet the turbidity/clarity or E. coli standard; or
- specific risks to the water supply have been identified:

then the farm dairy operator must develop a Water Management Plan detailing how the identified defects will be corrected or managed. In cases where E. coli, turbidity or clarity are found to be unacceptable, the Plan must, as a minimum, include a requirement that such water is not used:

- to flush the milking plant at the start of milking;
- to flush the milk into the farm vat/bulk milk silo at the end of milking;
- to rinse the milking plant after CIP; or
- for any other purpose where it may come into contact with raw milk intended for the manufacture of dairy products for human consumption.

Enter the details of your Water Management Plan below.

Attach any additional Water Management Plan details to this checklist.

The Plan must be agreed to by the farm dairy assessor, or operator of the farm dairy RMP where that is another person.

Part 9: Declaration *(Complete in all cases)*

Farm Dairy Operator Declaration

I hereby declare that:

To the best of my knowledge, this information is true and correct; and

I agree to abide by all requirements specified in any Water Management Plan covering my water supply.

Signed

(farm dairy operator): _____ Date: _____

Farm Dairy Assessor

Reviewed by

(Assessor's name): _____

Signed (Assessor): _____ Date: _____

Remember to attach water test results and any water management plan.