

COMPLETE ONE FORM FOR EACH WATER BORE

PART A - INITIAL ASSESSMENT To determine if a water bore is eligible for Make Good and whether a Bore Assessment is required	
 Is the bore authorised? For <u>Chapter 3 of the Water Act 2000</u> to apply to a water bore, the bore must: be authorised to take or interfere with water under the Water Act (i.e. possess a relevant water authorisation such as a vertex.) 	□ YES → go to 2
 licence) have a relevant development approval, if required (i.e. possess approval under the <u>Planning Act 2016</u> or the repealed <u>Sustainable Planning Act 2009</u> or the repealed <u>Integrated Planning Act 1997</u>). Bores that do not meet the above requirements do not require a bore assessment as Chapter 3 of the <u>Water Act 2000</u> does not 	□ NO ⇒ if the bore is not authorised, it is not eligible for Make Good
2. Does the bore currently have the capacity to produce water?	□ YES → go to 4
	□ NO ⇒ <i>go to 3</i>
3. Select the reason why the bore does not have the capacity to produce water: The bore has been abandoned and is: Historically dry Damaged Destroyed (never struck water or had standing water level)	→ go to 4
 4. Has the bore been identified as an Immediately Affected Area (IAA) bore in an Underground Water Impact (UWIR)? If the bore is within the Surat Cumulative Management Area (Surat CMA), search for the bore's registration number (Inttps://www.resources.qld.gov.au/business/mining/surat-cma/bore-search) If the bore is outside the Surat CMA, check with the responsible tenure holder (RTH) Bore Reference No. (RN):	□ YES → A Bore Assessment must be conducted by the
5. If the bore <u>has not</u> been identified in a UWIR: Is the bore impaired or is the bore likely to become impaired (either due to a decline in water level and/or the presence of free to resource activities?	gas) due \square YES \Longrightarrow go to 6







PART A - INITIAL ASSESSMENT To determine if a water bore is eligible for Make Good and whether a Bore Assessment is required 6. Is the bore (select where applicable): no longer capable of supplying a reasonable quantity or quality of water for its authorised purpose \square YES \Longrightarrow go to 7 (Note: this does not apply if 'No' was selected in 2) affected or likely to become affected by the exercise of the RTH's underground water rights (Note: this does not apply if 'No' was selected in 2) experiencing impaired capacity due to the adverse effects of free gas (i.e. damage to the bore's infrastructure, poses a health or safety risk such that the bore can no longer supply reasonable quantity or quality of water for its authorised use or purpose) □ **NO ⇒** Bore is not eligible for Make Good Water bores potentially impacted by resource industry operations can be investigated by the Department of Regional Development, Manufacturing and Water (DRDMW) Water Services Team, where required. Concerned landholders should contact DRDMW's Toowoomba office on (07) 4529 1394 or via email: waterservices.toowoomba@rdmw.qld.gov.au. 7. Report to the Department of Resources (DOR) Resources Community Infoline. The DOR Resource Community Infoline may also investigate and report its findings to Department of Environment and Science (DES). **→** go to 8 Phone: 13 71 07 Email: resources.info@resources.qld.gov.au ☐ YES → A Bore Assessment 8. Has DES issued a notice directing the RTH to undertake a bore assessment? must be conducted by the RTH. Go to PART B If the chief executive of DES reasonably believes that the bore has been or is likely to become impaired by resource activities, they can direct the Responsible Tenure Holder (RTH) to undertake a bore assessment within a stated timeframe and submit an outcome of bore □ NO → Bore is not eligible assessment for Make Good







PART B - A BORE ASSESSMENT IS REQUIRED. WHAT HAPPENS NOW?

A bore assessment is required to establish whether the bore has or is likely to start having an impaired capacity due to the exercise of underground water rights causing a decline in the water level of the aguifer at the bores location.

Undertaking a bore assessment must involve the following four steps:

- Step 1 Field assessment of the current bore condition conducted by the RTH (the bore owner should provide as much information as possible to assist with the field assessment part of the bore assessment)
- Step 2 Determine whether water levels have declined or are predicted to decline
- Step 3 Determine whether declining water levels are due to the exercise of underground water rights by a resource tenure holder
- Step 4 Determine whether the bore can continue to provide a reasonable quantity and quality of water for its authorised use or purpose

When undertaking the bore assessment to determine whether the bore is or is likely to have impaired capacity due to free gas, the RTH must follow best practice industry standards for carrying out work.

The bore owner and the RTH may wish to discuss some of the information prior to the assessment.

The following summarises the key obligations and responsibilities for a bore assessment based on the Guideline: Quick Guide – Make Good Obligations published by DES: https://environment.des.gld.gov.au/management/activities/non-mining/water/groundwater#make good agreements

Contact details	
Name of RTH (company name):	
RTH contact person:	
Phone number:	
Name of bore owner:	
Phone number:	







PART B - A BORE ASSESSMENT IS REQUIRED. WHAT HAPPENS NOW?

The RTH will obtain and provide the original Bore Report containing installation and completion details for the bore and a copy should be provided to the bore owner. Owners may wish to obtain a copy of the Bore Report themselves online (referencing their water bore registration number).

https://www.business.qld.gov.au/industries/mining-energy-water/water/bores-and-groundwater/bore-reports

The Bore Report data may not be complete. Attach the Bore Report to this form for ease of reference.

formation required from the bore owner
elow is the information that should be made available to the RTH prior to the field assessment. This information is required to determine the construction of the ore, its current condition and purpose. The more information provided, the more accurate the assessment will be.
Bore and property information
ocal bore name:
operty name:
ot:Plan:
ore type:
□ Sub-artesian
Artesian (controlled flow)
Artesian (uncontrolled flow)
Artesian (ceased to flow)
). Are the bore construction details available?
iller name: Drilling company name:
ate bore was drilled:
otal depth of bore:metres below ground level
ore screen type:
□ Perforations □ Screen
☐ Slots ☐ Other:
☐ Open hole



Casing material: (e.g. PCV, stair	ainless steel)	
Outside diameter:mm		
Details of any seals and cement grouting installed in the annulus:		
Source aquifer from which water is accessed:		
Additional comments:		
11. Is the bore equipped with a pump? If it is not, go to 12		
Pump type:		
Pump make:		
Pump model:		
Pump setting depth: metres below ground level		
Is the bore equipped with a meter?		
☐ Yes		
□ No		
Power source (select):		
☐ Electric motor	☐ Tractor	
☐ Generator	□ Windmill	
☐ Direct drive engine	Other:	_
☐ Mains supply		
Headworks description:		-
Repair/maintenance history:		_
		-



12. Bore water supply information	
Purpose of bore:	
☐ Stock	☐ Irrigation
☐ Domestic	☐ Town water supply
☐ Intensive stock	Other:
How often is the bore used? Estimate hours pumped per day: hrs Operational capacity: L/s	
Seasonal variation:	
Peak usage (including maximum volumes extracted and period of peak extraction). If informat of the Bore Assessment Guideline (ESR/2016/1999):	
13. Water level measurement details	
Water level:metres below ground level	
Datum point description (e.g. top of bore casing):	
Height of datum above ground level:m	
Date and time of measurement:	
Status of pump:	
Duration of pumping and rest period:	
Pumping period:	
Rest period:	_
Method of measuring water level (e.g. conduit, direct access):	
Provide any other water level or pressure records if available (attached if necessary):	



14. Water quality details				
The RTH will conduct a full analysis of the bore water quality (including	g field and laboratory testing). The method of testing will be in accordance with relevant groundwater sampling			
guidelines.				
If you have taken your own field measurements, please provide results	s:			
• pH:				
Temperature:	.°C			
Electrical conductivity:	μS/cm			
Date taken:	_			
15. Gassy bore				
The bore owner must advise the RTH if gas is present in the bore.				
Is the bore gassy:				
☐ Yes If so, when was if first observed?				
Has the amount of gas increased over time?				
☐ Yes	□ No			
Other observations regarding the presence of				
gas:				
16. Other information (e.g. historical records):				



	RESPONSIBILITIES		
STATUTORY OBLIGATION	RESPONSIBLE TENURE HOLDER (RTH) The responsible gas company	BORE OWNER (Owner)	
Undertake Bore Assessment			
 ☐ Underground water impact report (UWIR) required for the resource tenure (unless exempt) ☐ Submit to DES for approval 	 □ Prepare a UWIR: identify the bores within the tenure area define any immediately affected area (IAA) bores and long-term affected area (LAA) bores provide a water monitoring strategy and spring impact management strategy □ Submit to DES for approval □ Implement UWIR □ Publish UWIR on website 	N/A	
 On bores published as Immediately Affected Area (IAA) bores in an underground water impact report (UWIR) Other bores if directed by DES (section 418 of the Water Act 2000) Comply with the Bore Assessment Guidelines published by DES The Owner must comply with any reasonable request by the RTH to provide information 	 Undertake a Bore Assessment if: required under a UWIR directed by DES Comply with the Bore Assessment Guidelines published by DES (Guideline − Bore Assessments [ESR/2016/2005]) Determine whether the bore has or is likely to have an impaired capacity Inform the Owner of the date they will receive the Outcome of Bore Assessment report 	 □ Provide a copy of any invoice in relation to the removal of equipment that was requested by the RTH □ Provide the following information to the RTH: the location of any water bores on the land any other information the RTH reasonably requires to undertake a Bore Assessment of any bores on the land □ Provide access to enable the RTH to undertake the Bore Assessment □ Provide information about the water bore to assist RTH in completing the Bore Assessment (fill in details in this form) □ Understand the Bore Assessment and its implications 	



	RESPONSIBILITIES		
STATUTORY OBLIGATION	RESPONSIBLE TENURE HOLDER (RTH) The responsible gas company	BORE OWNER (Owner)	
Provide notice to Owner: State date the Bore Assessment will be undertaken Provide details of who will be undertaking the Bore Assessment At least 10 business days prior to undertaking a Bore Assessment	Contact the Owner in advance of issuing a notice to undertake the Bore Assessment: explain what a Bore Assessment is and why it is necessary enquire about: whether equipment will need to be removed from the bore prior to the assessment if the owner prefers to manage the removal of any pumps or equipment, how long the Owner needs to remove the equipment suitable dates to schedule the work to minimise disturbance with other activities on the property e.g. mustering, spraying etc inform the Owner that they are not required to be present for the bore assessment and explain the mechanism and frequency of communication to report progress throughout the Bore Assessment inform the Owner that a notice will be provided detailing: the date, time and estimated duration who will do the assessment how costs of removal of infrastructure will be covered Give notice of intention to undertake a Bore Assessment to the Owner at least 10 business days before accessing site to undertake the Bore Assessment	 □ Assist the RTH in planning and scheduling the Bore Assessment □ If the proposed timing of the Bore Assessment conflicts with planned activities such as mustering, harvesting etc, work with the RTH to reschedule as soon as practical □ Comply with any reasonable request for information from the RTH if they possess the information □ Comply with any reasonable request for information from the RTH if they possess the information. □ Provide a copy of any invoice in relation to the removal of equipment that was requested by the RTH □ If asked, provide: o the location of any water bores on the land o any other information the resource tenure holder reasonably requires to undertake a Baseline Assessment of any bores on the land 	
Notice of outcome of bore assessment			
Provide information collected during a Bore Assessment On the DES form: Outcome of Bore Assessment	☐ Discuss the findings of the Bore Assessment with the Owner	 □ Discuss the information in the Outcome of Bore Assessment report with the RTH – understand the outcome of the assessment as this will: ○ be agreed as part of the Make Good Agreement 	



	RESPONSIBILITIES	
STATUTORY OBLIGATION	RESPONSIBLE TENURE HOLDER (RTH) The responsible gas company	BORE OWNER (Owner)
 □ To the Owner and the Office of Groundwater Impact Assessment (OGIA) within 30 business days after undertaking the assessment □ To DES if the Bore Assessment was undertaken in response to a direction notice 	 □ Provide a copy of the Outcome of Bore Assessment report to the Owner, OGIA (and DES if required) within 30 business days of completing the Bore Assessment Note: 30 business day period commences once laboratory results are received and this information has been analysed □ Explain outcome of Bore Assessment to the Owner □ Inform the Owner about the next steps in the process and the timeframe for each step 	 determine whether Make Good Measures will be required Enquire about the next steps in the process and the timeframe for each step
Collection of data and qualifications		
 Qualifications for persons conducting Bore Assessments: Ensure that the person/s conducting the field measurements required for a Bore Assessment possess: □ a minimum of two years prior experience in at least one of the following fields: underground water level monitoring programs, the conduct of underground water quality sampling programs, hydrogeology and/or engineering. □ has a practical knowledge of water bore construction and infrastructure Provide the Owner with evidence of the person(s) skills and expertise, when requested 	 Engage appropriately qualified people to conduct the Bore Assessment Inform the Owner about the people who will be conducting the Bore Assessment Provide the Owner with evidence of the skills and expertise of the person(s) conducting the Bore Assessment if requested 	Request the RTH to provide evidence of the person(s) skills and expertise if concerned that the person(s) conducting the Bore Assessment does not possess the appropriate skills and experience







	RESPONSIBILITIES	
STATUTORY OBLIGATION	RESPONSIBLE TENURE HOLDER (RTH) The responsible gas company	BORE OWNER (Owner)
Quality assurance and quality control Comply with the Bore Assessment Guidelines published by DES regarding quality assurance and control	 Develop a formal quality assurance program and undertake Bore Assessments in accordance with the formal quality assurance program. Ensure the formal quality assurance program include quality control procedures consistent with the principles of the following documents: AS/NZ 9000 Quality management system series quality assurance/quality control of AS/NZS 5667.11:1998 Water quality - Sampling - Guidance on sampling of groundwaters (Joint Technical Committee EV/8, 2016) Monitoring and Sampling Manual 2018 — Environmental Protection (Water) Policy 2009 (DES). Provided the quality assurance program to the chief executive of DES upon written request within the requested timeframe 	N/A







	RESPONSIBILITIES		
STATUTORY OBLIGATION	RESPONSIBLE TENURE HOLDER (RTH) The responsible gas company	BORE OWNER (Owner)	
Independent third-party certification ☐ Comply with the Bore Assessment Guidelines published by DES regarding independent third-party certification (Guideline – Bore Assessments [ESR/2016/2005]) ☐ Bore Assessment must be completed by an independent third party or be certified by an independent third party	 □ Obtain certification from a qualified independent third-party who: Is not an employee Does not have a conflict of interest Has a degree in a relevant science or engineering discipline Has a minimum of five years' experience in at least one of the following fields:	N/A	







	RESPONSIBILITIES		
STATUTORY OBLIGATION		RESPONSIBLE TENURE HOLDER (RTH) The responsible gas company	BORE OWNER (Owner)
Other information collected by the RTH	ł	, , ,	
☐ Comply with the Bore Assessment Guidelines published by DES (Guideline – Bore Assessments		Comply with the <u>Bore Assessment Guidelines</u> published by DES (<u>Guideline – Bore Assessments</u> [ESR/2016/2005])	N/A
[ESR/2016/2005])		Confirm the information provided and conduct other tests to establish the current condition of the bore	
		Take photos of the bore	
		Compare the Information collected during the field assessment to the relevant Baseline Assessment (if previously undertaken), UWIR and historical water level and water quality data to determine whether the bore has an impaired capacity or is likely to have an impaired capacity	
		If the bore has or is likely to have an impaired capacity, determine whether the impairment is due to (or significantly contributed to) the activities of the RTH	
The RTH will provide a report to the Owner describing the outcome of a Bore Assessment within 30 business days of having received the sampling results from the laboratory. It is important to understand the information in the report, discuss the outcome of the assessment and address any concerns. The outcome of the assessment will			
be documented as part of the Make Good Agreement.			
Expected date for bore assessment outcome report to be provided:			







PART C: HAS THE CAPACITY OF THE BORE BEEN (OR WILL IT BECOME) IMPAIRED?

If the bore has no capacity to produce water (not the result of resource activities) and is not a health or safety risk (due to the presence of free gas), no Make Good Measures are required. All water bores that have undergone a bore assessment require a Make Good Agreement, even if they are not eligible for Make Good Measures. Make Good Measures are only required if a bore has or is likely to have impaired capacity.

Use the GasFields Commission's Make Good Agreement 'Decision Table' to identify the appropriate Make Good Agreement to use based on the outcome of the Bore Assessment.

The Commission has also developed four types of Make Good Agreement templates for use by bore owners and industry. The templates are intended to be used as a starting point for negotiations between a tenure holder and a bore owner and create common ground from which a make good agreement can be drawn up.

* These templates have provision for special conditions should they be required.

What if the RTH and the Owner do not agree on the outcome of the Bore Assessment?

If the RTH and Owner do not agree on the Bore Assessment outcome or the proposed terms of the Make Good Agreement, either party can contact the Department of Regional Development, Manufacturing and Water for further assistance:

Phone: (07) 4529 1394

Email: waterservices.toowoomba@rdmw.qld.gov.au

https://www.business.gld.gov.au/industries/mining-energy-water/water/bores-and-groundwater/ Web:



