

Expression of interest application form

January 2018

Section A—General information

Purpose of this form

This document forms an expression of interest (EOI) for NSW Government funding under the Safe and Secure Water Program.

This EOI is Stage 1 of a two-stage process for funding applications. Stage 2 will involve a request for a detailed application should the EOI be assessed as eligible.

Please refer to the most recent Safe and Secure Water Program [expression of interest guidelines](#) for more details on application process and requirements.

For more information, email sswp.water@dpi.nsw.gov.au or call (02) 6763 1401.

Before applying

Read the [EOI guidelines](#) for the Safe and Secure Water Program. Please ensure you meet the eligibility requirements listed in Section B of this form.

Submitting your application

To submit an application, check your eligibility in Section B and fill in the details in Sections C, D and E of this form. Email this completed form to sswp.water@dpi.nsw.gov.au

An EOI can be submitted at any time.

Incomplete applications or applications that use a format other than the prescribed EOI application form will not be assessed. Additional attachments are not considered necessary at this stage.

Section B—Eligibility requirements

Please refer to the Safe and Secure Water Program [EOI guidelines](#).

Is your organisation one of the following entities: a Council, (including Regional Organisation of Councils or Joint Organisation), Local Water Utility, Water Corporation, or prescribed dam owner as defined in the Dams Safety Act (NSW)?

No - You are not eligible to apply for funding through this expression of interest process

Yes

Is funding sought for projects that will deliver either public health, economic, environmental or social benefits to regional communities?

No - You are not eligible to apply for funding through this expression of interest process

Yes

Is funding sought for a water infrastructure project related to town water security, catchment water security, drinking water quality, wastewater management, or safety of prescribed dams?

No - You are not eligible to apply for funding through this expression of interest process

Yes

Is this project within the Greater Sydney metropolitan area, Greater Newcastle metropolitan area, or Wollongong and surrounds, as defined by NSW Department of Planning and Environment?

No

Yes - You are not eligible to apply for funding through this expression of interest process

Is this project exclusively within the areas of operation of Sydney Water or Hunter Water?

No

Yes - You are not eligible to apply for funding through this expression of interest process

Does this proposal relate to either a flood mitigation project, projects primarily for water recreation, projects involving land purchase only, projects with exclusive private benefits or a metropolitan dam safety project?

No

Yes - You are not eligible to apply for funding through this expression of interest process

Does this proposal relate to funding for operation, maintenance or administration costs?

No

Yes - Project would be eligible only in exceptional circumstances

Section C—Project details

Project name

Raising of Clarrie Hall Dam

Project phase (choose one)

Note: A detailed (Stage 2) application for detailed design and construction phase funding would require a cost benefit analysis.

Business Case

Project location

Include local government area(s)

Tweed Shire Council

Project scope

Approximately 200 words

Raise Clarrie Hall Dam to provide a secure water supply to Tweed Shire Council residents, commerce and industry.

Summary of the problem that this project will address

This should include any potential benefits generated by the project. Please mention any data or studies that support the case. Maximum 2,000 words.

The Tweed District Water Supply is a run of river supply augmented by releases from Clarrie Hall Dam. Raw water is drawn from upstream of Bray Park weir, effectively a salt water barrage, in the Tweed River. In periods of low flow in the river, flows are augmented by releases from Clarrie Hall Dam to ensure availability of water for the Tweed District Water Supply.

Urban Water Services NSW has undertaken secure yield studies for the Tweed District Water Supply. Those studies identify the impacts of climate change on the secure yield for the present water supply. The studies forecast the secure yield will fall from approximately 15,000ML/a (2014) to approximately 11,250ML/a by 2030 based on 1 degree warming. Hydrosphere Consulting has undertaken demand forecasts for the Tweed District Water Supply based on population data provided by idConsulting. Demand for water is forecast to increase from approximately 10,000ML/a in 2017 to above 12,800 ML/a in 2035. The point where demand will exceed secure yield is 2026.

Due to the impact of climate change and sea level rise, the efficacy of Bray Park Weir as a salt water barrage is reducing. The consequence is an increasing frequency at which Bray Park Weir is overtopped leading to salt water contamination of the raw water supply.

The Tweed District Water Supply relies on a single source being the Tweed River. Further it is dependent on items of major infrastructure which have no redundancy. Failure of a single piece of major infrastructure or a single contamination event would cause failure of the water supply and at this stage no contingency exists.

To address these issues Tweed Shire Council is undertaking three (3) interrelated projects to secure the Tweed District Water Supply. The projects are the Raising of Clarrie Hall Dam to augment supply, a project to mitigate the risk associated with salt water ingress into Bray Park Weir Pool and a link to SEQ Water or Gold Coast Water to provide a contingency in the event of failure of major infrastructure in the Tweed District Water Supply or a gross contamination event.

In respect to the augmentation of supply Council considered a range of options. These initially included raising Clarrie Hall Dam, construction of a dam at Byrill Creek, links to Gold Coast Water, links to SEQ Water desalination and ground water. After some 6 years of studies and consultation Council, in December 2015, resolved to undertake the planning and land acquisition for the raising of Clarrie Hall Dam. Council is moving forward consistent with that resolution.

Planning to mitigate the risk of salt water contamination of the Bray Park Weir pool has commenced.

Planning to provide a contingency in the event of failure of the water supply has progressed with the identification of a link to the SEQ Water grid or Gold Coast Water being identified as the most viable option. It should be noted that the link to SEQ Water Grid is not a viable option to augment the water supply due to the "buy in" and access costs if it were to be used to augment the Tweed District Water Supply. Notwithstanding the project may form part of the project to mitigate the impact of the overtopping of Bray Park Weir.

The projects to address the issue of salt water ingress into the Bray Park Weir Pool and the provision of a contingency are progressing separately. This application relates to the augmentation of the water supply being the raising of Clarrie Hall Dam as resolved by Council.

What is the current project status?

Provide details on what investigations, pre-construction planning and statutory approvals have been completed or obtained to date. Approximately 500 words.

The project is in the Business Case Phase. The current status of the project is:

Concept Design. Council engaged NSW Public Works Advisory to undertake the concept design of the raising of Clarrie Hall Dam. It is envisaged the concept design will be complete by end March 2018.

Flora and Fauna Studies. Council engaged internal resources to determine the impact of a raised dam on flora and fauna in an around the proposed inundation area. It is envisaged that this work will be completed by end March 2018.

Cultural Heritage Studies. Council engaged a consultant (Navin Officer) to identify and determine the impact of a raised dam on cultural heritage assets in an around the proposed inundation area. Navin Officer's initial report has been received and the next steps in this part of the project are the finalisation of the report, presentation to the Registered Aboriginal Parties and development of management plans.

Environmental Flow Studies. Council has called tenders from consultants and is about to engage a consultant to identify and determine the impact of a raised dam on the aquatic flora and fauna in Doon Doon Creek and the Tweed River to Bray Park Weir. The studies will also identify mitigation measures to lessen the impact of Clarrie Hall Dam on the aquatic environment.

Liaison with Department of Planning and Environment. Council is continuing to liaise with Department of Planning and Environment and other Government Agencies to ensure their requirements will be met. It has been suggested that the project will be assessed as State Significant Infrastructure.

Council has committed approximately \$1.2m to the above studies. Council has also undertaken land purchases for the project.

The next steps in the process to complete the Business Case Phase will start on completion of the Concept Design and studies above. The steps will be:

1. The preparation of a Preliminary Environmental Assessment.
2. Application to Department of Planning and Environment for the SEARS for the project
3. On receipt of the SEARS the briefing and engagement of a suitably qualified consultant to undertake the required environmental impact assessment.

4. Placing on exhibition the environmental impact assessment and seeking of submissions
5. Prepare a Response to Submissions Report
6. A determination by the approving authority (The Minister)
7. Preparation of a Business Case including a Cost Benefit Analysis to progress the project.

This Expression of Interest is to seek partial funding for these steps.

Proposed start and finish dates

The project started in January 2015 with the commencement of land acquisition, engagement of consultants, and continuance of community consultation. It is anticipated the SEARS will be sought in May 2018 with the environmental impact assessment completed by December 2019. The award of tenders for construction is forecast to be 2021. The works need to be complete such that the water supply is augmented by 2026.

Estimated total project cost

Cost for all project phases - if known.

The total cost of the project has been estimated from information prepared by NSW Public Works in 2014 at approximately \$68m.

Estimated total cost for this project phase

Cost for this project phase only. Either - scoping, business case or detailed design and construction phase.

Council has already committed approximately \$1.2m to Business Case Phase of the project. The estimated cost to undertake the remaining activities in this phase of the project is:

1. Preparation of a Preliminary Environmental Assessment \$100,000.
2. Application to Department of Planning and Environment for the SEARS for the project \$20,000.
3. Preparation of the Environmental impact assessment including exhibition \$800,000.
5. Preparation of the Response to Submissions Report \$100,000.
7. Preparation of the Business Case including a Cost Benefit Analysis for the project \$100,000.

Total \$1,120,000

Indicative Safe and Secure Water Program funding requested for this project phase

Guidance on funding eligibility is provided in the [EOI guidelines](#). If requesting an amount greater than maximum eligibility, provide brief summary of why funding above maximum amount is justified. Note that additional funding will only be considered under exceptional circumstances.

If additional funding is sought without justification in accordance with Guidelines, the EOI will be considered ineligible.

25% of \$1,120,000 being \$280,000

Indicative funding from other sources

Include name, contribution amounts and whether contributors are confirmed or prospective - if applicable.

Balance of funding provided by Council

Section D—Applicant details

Please provide contact details of the lead applicant. If the application is being prepared on behalf of one or several organisations (e.g. a joint organisation or Regional Organisation of Councils) or other third party, please provide overview.

Lead applicant organisation name

Tweed Shire Council

Registered address

PO Box 816
Murwillumbah NSW 2484

Australian Business Number (ABN)

ABN: 90 178 732 496

Is this a joint application?

Yes

No

If a joint application, provide details of all relevant parties

[Click here to enter text.](#)

Contact person

Must be an officer of the lead organisation department

Name: Rob Siebert

Position: Coordinator Strategy and Business Management

Address: Tweed Shire Council PO Box 816 Murwillumbah NSW 2484

Telephone: 02 66702506

Email: rsiebert@tweed.nsw.gov.au

Second contact person

Usually a technical manager

Name: Michael Wraight

Position: Acting Manager Water and Wastewater

Address: Tweed Shire Council PO Box 816 Murwillumbah NSW 2484

Telephone: 02 6670 2411

Email: mwraight@tweed.nsw.gov.au

Section E—Applicant declaration

To be completed by the General Manager or equivalent.

I certify that the information provided in and supporting this application is true and correct and that I am legally authorised to sign this application for and on behalf of the applicant(s).

Name: Troy Green

Organisation: Tweed Shire Council

Position: General Manager

Signature:

Date: [Click here to enter a date.](#)

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