

August 22, 2019

Attn: Ben Wade Water Conservation Coordinator Colorado Water Conservation Board 1313 N Sherman St, Suite 721 Denver, CO 80203

Dear Ben,

Erie is submitting this grant application to update their Drought Management Plan. Our Town staff, representing a diversity of departments, will be highly involved in updating the Plan. In addition, we are hiring INTERA Incorporated (INTERA) to guide the Plan development process and author the Plan. We aim to produce a comprehensive Plan that meets CWCB's Municipal Drought Management Plan Guidance Document, is supported by the community and further enhances Erie's ability to prepare for and respond to drought.

This Plan update will be developed in parallel with Erie's Water Efficiency Plan update to capitalize on efficiencies in the development of these plans at the same time while also ensuring that the plans are well integrated. A separate grant application is being submitted to the CWCB for the Water Efficiency Plan update. This grant application covers the level of effort needed to update the Drought Management Plan and does not include any work necessary for the Water Efficiency Plan update.

Per requirements specified in CWCB's *Grant Guidelines for Drought Mitigation Planning Projects*, this grant application provides an overview of Erie's population, water supplies and demands; summarizes historical drought impacts and responses; and details the scope of services needed to update the Plan including a detailed budget and timeline.

We appreciate the opportunity to submit this application and look forward to working with you on this important planning effort.

Sincerely,

Todd Fessenden Public Works Director 303-926-2870 (contact for this project)



## **Colorado Water Conservation Board**

# Water Efficiency Grant Fund Grant Application

#### Instructions

All WEGF grant applications shall conform to Grant Guidelines. Please do not recycle previously used applications; download a current version directly from <a href="CWCB">CWCB</a>.

If you have questions, please contact CWCB staff:

Ben Wade

Ben.wade@state.co.us
303-866-3441 ext 3238

	WEGF Submittal Checklist (Required)							
	I acknowledge I have read and understand the WEGF Criteria and Guidelines.							
Attacl	nments							
	Scope of Work <sup>(1)</sup> (Word – see Template)							
	Budget & Schedule <sup>(1)</sup> (Excel Spreadsheet – see Template)							
	Letters of Support (For Public Education/Outreach Grants)							
Contr	Contracting Documents (For Public Education/Outreach Grants)							
	W-9 <sup>(2)</sup>							
	Certificate of Insurance <sup>(2)</sup> (General, Auto, & Workers' Comp.)							

- (1) Required with application if applicable.
- (2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

Water Efficiency Project Summary							
Name of Applicant	Town of Erie						
Name of Grant Project	Name of Grant Project Drought Management Plan						
WEGF Grant Request To	otal	\$30,000					
In-Kind Match		\$15,142					
Cash Match		\$13,600					
Total Project Costs		\$58,742					



Applicant Information							
Name of Applicant	Town of Erie						
Mailing Address	645 Holbrook Street Erie, CO 80516						
Applicant's Organization Contact <sup>(1)</sup>	Todd Fessenden						
Position/Title	Public Works Director						
Email	tfessenden@erieco.gov						
Phone	303-926-2870						
Grant Management Contact <sup>(2)</sup>	Todd Fessenden						
Position/Title	Public Works Director						
Email	tfessenden@erieco.gov						
Phone	303-926-2870						
Name of Consultant (if applicable)	INTERA Incorporated, Courtney Black						
Mailing Address	6707 Winchester Circle Suite 200 Boulder, CO 80301						
Position/Title	Senior Water Resources Engineer						
Email	cblack@intera.com						
Phone	720.749.1902						

<sup>(1)</sup> Person with signatory authority

## Organizations & Individuals Assisting on the Project

A list of the organizations and/or individuals including those hired or otherwise retained by the entity that will assist in the project, and a written statement of their role and contributions

Erie has retained INTERA Incorporated (INTERA) to assist with the development of the Plan. INTERA will be responsible for facilitating the development of the Plan, collection of data and information provided by the Town and drafting the Plan.

Town staff will also contribute to the Plan development. Erie's Sustainability and Water Conservation Specialist will work in close collaboration with INTERA in collecting information and providing input on the Plan development process as it proceeds. This position will be filled within the next two months. Other staff members listed below will provide input during 5 workshops and on an as needed basis.

Todd Fessenden

Director of Public Works

Open Position

Sustainability & Water Conservation Specialist

Scott Brown

Distribution & Collection Supervisor

**Bruce Chameroy** 

Water Division Manager

Michael McGill

Parks and Open Space Division Manager

John Frankenfeld

Parks Supervisor - Turf & Irrigation

Luke Bolinger

Community Partnerships & Special Projects Manager

<sup>(2)</sup> Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.



Steve Felten

Director of Finance

Lori Wisner

Customer Service Supervisor

Ashley Tucker

Storm Water Coordinator

Deb Bachelder

Planning Mgr/Deputy Director of Planning & Development

	Type of Eligible Entity (check one)								
Х	X Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes								
	Non-covered Entity/ State or Local Governmental Entity								
-	Public or Private Agency: entity whose primary purpose includes the promotion of water resource conservation. Please disclose your organizational structure and charter (or equivalent)								

	Type of Project (check one)							
Χ	X Drought Management Plan							
	Drought Management Implementation							
	Water Efficiency Plan							
	Water Efficiency Implementation							
	Public Education & Outreach							

Location of Entity								
	Please provide the county and applicants (if needed) location identified by the Colorado Water Plan Technical Analysis (formerly known as SWSI)							
Basin	South Plate Basin, Boulder and Weld Counties							

## **Retail Water Delivery over Past 5 Years**

Please identify retail water delivery by the entity for each of the past five years (in acre feet) and additional information characterizing past water use by sector (e.g., residential, commercial, industrial, irrigation) and source (e.g., surface water, groundwater, etc.).



**Retail Water Delivery over Past 5 Years** 

Erie's water supply consists of surface water. Figure 1 shows Erie's total annual water use. Erie's total annual water use has generally trended upward since 2001, reflecting Erie's increasing service area population. However, as discussed below, Erie's total and residential per capita water use is significantly less than the per capita water use during the 2002 drought and continues to exhibit declining trends.



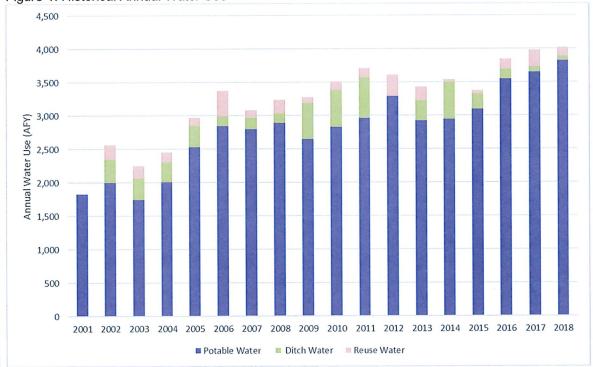


Table 1 shows the potable water use by customer sector from 2002 to 2018. Multiple changes to the billing categories have been made since 2001. In 2011, irrigation accounts were taken out of the commercial category and put into an irrigation category. In 2015, multifamily and townhomes was distinguished from remaining residential accounts and Erie's water use was categorized as commercial and irrigation. The billing categories are described as follows:

- Commercial Schools, municipal property, commercial businesses and outdoor irrigation prior to 2008. Schools, municipal property and commercial businesses prior to 2015. After 2015 schools and commercial businesses.
- Irrigation Outdoor watering on parks, open spaces and commercial parcels prior to 2015. After 2015 outdoor watering on commercial parcels.
- Multifamily Apartments
- Townhomes Condos and townhomes
- Residential Single family, multifamily and townhomes prior to 2015. Single family housing since 2015.
- Construction Potable uses for construction purposes
- Town of Erie Comm City facilities
- Town of Erie Irr Outdoor watering on Town owned properties including parks and open spaces.

These data indicate that residential use including multi-family and townhomes comprised 76.3 percent of Erie's total water consumption (metered end use) from 2015 to 2018. Single-family homes make up

## **Retail Water Delivery over Past 5 Years**

most of the residential use. The irrigation accounts in Table 1 were the next highest user, comprising 13.6 percent of total metered end use from 2015 to 2018.

Table 1: Potable Water Use by Customer Sector (AFY)

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2002         99         *         *         *         1,278         302         *         *         1,679           2003         229         *         *         *         1,209         56         *         *         1,494           2004         269         *         *         *         1,269         448         *         *         1,986           2005         401         *         *         *         1,788         76         *         *         2,265           2006         489         *         *         *         2,224         30         *         *         2,743           2007         458         *         *         *         2,167         80         *         *         2,705           2008         461         *         *         *         2,181         50         *         *         2,692           2009         113         372         *         *         1,589         139         *         *         2,213           2010         111         432         *         *         2,087         67         *         *         2,697           2011	Year	Commercial	Irrigation	Multi-Family	Townhomes	Residential	Construction	Town of Erie Com	wn of	Total Metered End Use
2003         229         *         *         *         1,278         302         *         1,494           2004         269         *         *         *         1,269         448         *         *         1,986           2005         401         *         *         *         1,788         76         *         *         2,265           2006         489         *         *         *         2,224         30         *         *         2,743           2007         458         *         *         *         2,167         80         *         *         2,705           2008         461         *         *         *         2,181         50         *         *         2,692           2009         113         372         *         *         1,589         139         *         *         2,213           2010         111         432         *         *         2,087         67         *         *         2,697           2011         342         293         *         *         2,139         109         *         *         2,883           2012         113	2001	112	*	*	*	1,266	56	*	*	1,434
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2013         102         364         2,089         114         2,009           2014         124         410         *         *         2,091         180         *         *         2,804           2015         66         372         49         25         2,124         76         5         38         2,756           2016         73         465         63         24         2,353         161         7         69         3,215           2017         114         416         60         22         2,334         222         11         65         3,245	2012	113	539	*	*	2,408	36	*	*	3,096
2014     124     410     2,091     160     2,304       2015     66     372     49     25     2,124     76     5     38     2,756       2016     73     465     63     24     2,353     161     7     69     3,215       2017     114     416     60     22     2,334     222     11     65     3,245	2013	102	364	*	*	2,089	114	*	*	2,669
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2017         114         416         60         22         2,334         222         11         65         3,245	2015	66	372	49	25	2,124	76		38	2,756
	2016	73	465	63	24	2,353	161	7	69	3,215
2018 129 463 68 24 2,507 163 17 71 3,443	2017	114	416	60	22	2,334	222	11	65	3,245
	2018	129	463	68	24	2,507	163	17	71	3,443

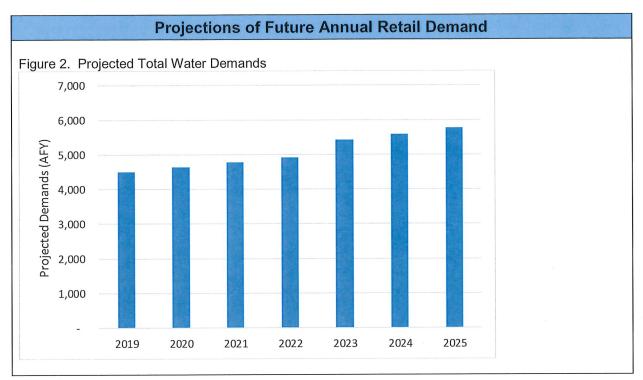
<sup>\*</sup>The finance department did not have these accounts.

## **Projections of Future Annual Retail Demand**

A reasonable estimate must be submitted with detailed projections of future annual retail demand for the next five years based on predicted population (provide source of data), building permits, expected new taps, and/or some other credible information

The projected total water demands (including potable, raw ditch water and reuse) from 2019 to 2025 are provided in Figure 2 below. These demand estimates assume a per capita water use of 142 gpcd and are based upon the population projections provided later this this application. These estimates may be updated during development of the Plan.





## **Background Characterizing the Water System**

Current and past system wide and single family residential per capita water use for the last five years, and the basis for those calculations.

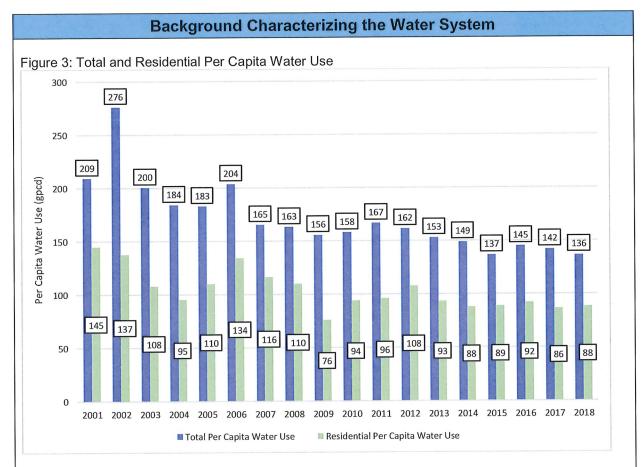
Figure 3 shows Erie's total and residential daily per capita water use for calendar years 2002 through 2018. Erie's water accounting data were used to provide the water use information presented in these figures. Per capita use for the service area was estimated by dividing total system water use by the total residential population, as shown in the equation below. Total system water use includes non-potable supplies such as irrigation of Vista Ridge Golf Course and the Erie Commons development.

$$Per\ capita\ water\ use = \frac{Total\ water\ use\ (\frac{gal}{year})}{Total\ population\ x\ 365\ days}$$

Residential per capita water use presented in Figure 3 was estimated by dividing the residential water use by total residential population, as shown in the equation below.

Residential per capita water use = 
$$\frac{Residential\ water\ use\ (\frac{gal}{year})}{Total\ population\ x\ 365\ days}$$





Erie's total and residential per capita water use is less than the per capita water use during the 2002 drought and continues to exhibit declining trends. This may be attributed to the following:

- Long-term community response to regional drought awareness campaigns and Erie's mandatory water restrictions during the 2002 drought
- Larger proportion of new homes being constructed within the service area which tend to be more water efficient than older homes (e.g. homes within the Old Town portion of Erie)
- Increased water efficiency among customers in response to Erie's water efficiency outreach efforts.

## Potential Growth – Population

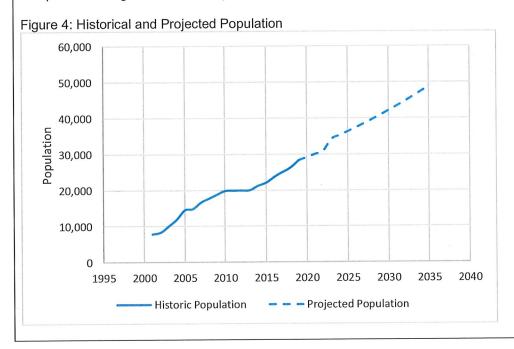
Provide population for the past five years, current year and 10 year population projection served by the entity and the source of this information



## **Potential Growth - Population**

Erie's population has increased by over 50% within this decade and a three percent growth rate is anticipated for the next ten years. Approximately two thirds of Erie's planning area could ultimately be developed for residential and commercial uses with the remainder of the planning area consisting of open space and other regional facilities based on Erie's 2015 Comprehensive Master Plan which included goals, guiding principles and policies, and a proposed land use map addressing specific types of future land use development.

Erie has a current population of approximately 27,189 people. As shown in Figure 4, this population is expected to continue to increase as Erie develops and it is projected that Erie will serve over 48,700 people by 2035. Current and historical estimates are based on the number of Certificates of Occupancy issued by the Town of Erie while future population projections were developed assuming a 3 percent growth rate referenced in Erie's 2015 Comprehensive Plan. These population estimates may be updated during the Plan development.



## **Estimated Water Savings Goals**

Estimate water savings goals to be achieved through implementation of the Plan in acre feet and as a percentage.

Erie's State approved 2015 Drought Management Plan includes a four-staged drought response program that recommends specific supply and demand-side response actions depending on the severity of drought. Erie's drought response is divided into the four levels shown in Table 2 below which are delineated by a drought trigger index that represents Erie's projected annual supply relative to its projected annual demand. The response target shows the percentage saving goals for each respective drought stage. These drought stages, indices and response targets will be revisited and if warranted, be modified during the Plan update.

## **Estimated Water Savings Goals**

Table 2: Drought Response Targets and Water Savings

Drought Stage	Drought Trigger Index	Response Target (Targeted Water Savings)
Voluntary	1.0 to .95	5%
Watch	0.94 to 0.8	20%
Severe	0.79 to 0.6	40%
Emergency	0.59 to 0.4	60%

## **Estimated Water Savings Goals - Monitoring**

Indicate how the activities will be monitored to estimate actual water savings during Project implementation (Implementation & Public Education/Outreach Projects)

n/a

## **Drought Impacts (Drought Management Planning Grants Only)**

Description of the impacts experienced by the covered entity, or state or local governmental entity, during the 2000-2003, 2012-2014 & 2018 droughts including a breakdown by water use sector (e.g. municipal, commercial, industrial, irrigation, etc.) of those adverse impacts and steps taken to address drought impacts to date. Include short term and long term impacts, as well as social and economic impacts where applicable and as feasible.

Since the 2002 drought, Erie has grown by over 200% and has acquired additional water supplies to meet the needs of its growing population. Given this dramatic change, impacts Erie experienced during the 2002 drought are not relevant to Erie's current or future water supply and customer demand conditions. Table 3 shows the historical drought impacts of the more recent drought of 2011/2012. Taste and odor complaints were of greatest significance, occupying the most amount of staff time to address. The remaining impacts were moderate to minor in severity requiring some to very little staff time.

Table 3: Historical Impacts During the 2011/2012 Drought

Impacts	Severity
Taste and odor complaints	Significant
Loss of trees	Moderate
Loss of revenues	Minor
Increased costs to parks	Moderate
Increase in public complaints	Moderate
Recreational use	Minor
Fish impacts	Minor

Notes:

Minor –very little impact, did not require much staff time Moderate – some impact, required more staff time to address Significant – key impact, occupied staff time



## **Drought Impacts (Drought Management Planning Grants Only)**

Erie has historically implemented the following practices to ensure the Town has sufficient supplies during periods of drought.

- Acquisition of water supplies to meet its growing demand
- Maximum use of the CBT carryover program as a drought reserve
- Expand non-potable reuse water for irrigation
- Water conservation program
- Voluntary and mandatory water restrictions

## Adequacy, Stability, and Reliability

Explain the adequacy, stability, and reliability of the entity's water system and provide the entities location with respect to areas of current and future water needs as identified by the Statewide Water Supply Initiative (SWSI).

Erie's water supply consists of a variety of surface water sources. Sources include ditch shares, reservoir shares and Colorado Big Thompson (CBT) and Windy Gap supplies with a total average year yield of 8,874 AFY. Erie's current water supplies provide an adequate amount of water to meet existing needs although additional water will be needed to meet future demands.

Erie is in the northern area identified by the Statewide Water Supply Initiative (SWSI), which comprises the northwest portion of the South Platte River Basin. The SWSI 2010 Report indicates that the northern area of the South Platte Basin will need an additional 25,500 to 137,700 AFY of water by 2050 to meet an additional 131,200 to 184,900 AFY of M&I and self-supplied industrial demands.

In order to meet its needs, Erie is a participant in the Windy Gap Firming Project. This project will firm Windy Gap supplies enabling Erie to receive its full Windy Gap allotment during dry years. Erie is also a participant in the Northern Integrated Water Supply Plan (NISP) and has requested 6,500 AFY of firm yield. Erie also plans to purchase additional water rights and further extend its supplies by using additional untreated ditch water and reclaimed water.

## **Outreach Goals & Efforts**

Identify the groups, individuals, organizations and/or institutions that will be included within the education and outreach efforts to be proposed as the Project.

Identify the specific goals of the Project (e.g., identify target audience(s) to reach, policy changes, outcomes of educational efforts, etc.) with respect to promoting the benefits of water resource conservation and water efficiency through education and outreach activities. Make note of how the goals of the Project tie to the mission and objectives of the CWCB and its programs (Colorado Water Plan/Basin Implementation Plans), as appropriate.

Identify in detail the specific activities and tasks to be funded with the Water Efficiency Grant Program monies, including all meetings, workshops, fairs, printings, mailings and all other tasks and activities that will be used to promote the benefits of water resource conservation and water efficiency.



### **Outreach Goals & Efforts**

Groups that will be targeted for drought outreach and education will be identified during the Plan update. A preliminary list for purposes of this grant application include groups listed below. This list will be refined during the Plan update.

- Homeowner's Associations and Neighborhood Organizations
- **Developers**
- Landscape designers and landscape maintenance companies
- Large water users
- Town parks
- Vista Ridge Golf Course
- Schools
- Residential community

A component of Erie's public outreach and education efforts will focus on the goals and benefits of drought planning. The goals listed in Erie's 2015 Plan are listed below.

- 1. Enhance Erie's ability to plan for droughts before they occur
- 2. Identify and properly determine the severity of a drought based on Erie's potential shortage of
- 3. Provide an effective drought response program.

These goals will be revisited and modified accordingly during the Plan update. Public outreach during the Plan development will focus on the importance of drought planning, address how water efficiency and drought planning are complementary to enhancing community resiliency to drought yet will also differentiate drought planning from water efficiency planning.

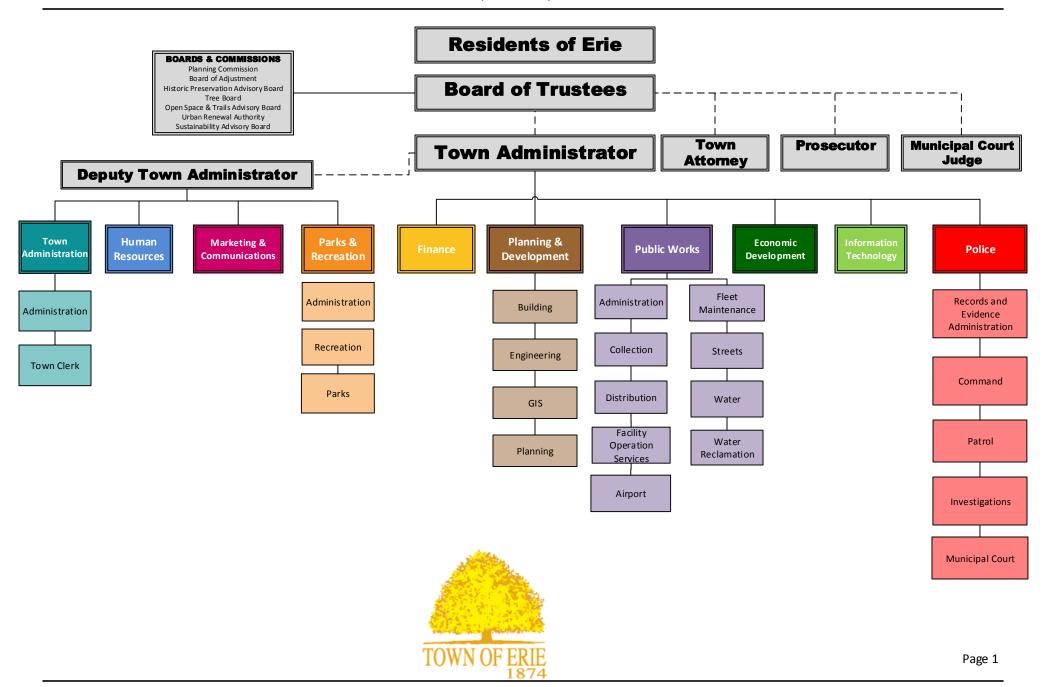
Many of the benefits listed above align with the objectives of the CWCB and its programs. Additionally, Colorado's Water Plan calls for the reduction of the projected 2050 municipal and industrial gap from as much as 560,000 AF to zero AF by 2030. Effective municipal drought planning contributes to meeting this goal by improving the drought resiliency of a water provider and by reducing water supply shortages and customer impacts during a drought. Erie's updated Plan will be in alignment with CWCB's Municipal Drought Management Plan Guidance Document. The specific activities and tasks that the CWCB Water Efficiency grant is to cover are provided in detail in the attached Scope of Work provided with this application.

Signature of an individual with the authority to commit the resources of the entity seeking Water Efficiency Grant program monies.

Public Works Director

## **Town of Erie**

Tuesday, February 26, 2019





Water Efficiency Grant Fund							
Scope of Work							
Date:	<b>Date:</b> August 20, 2019						
Project Name:	Town of Erie Drought Management Plan Update						
Grant Applicant:	Town of Erie						

The scope of work shall state the purpose and primary features of the project, end products to be delivered, clear timelines and provide a detailed narrative of all tasks to be performed for completion of plan. (Timelines must include 50 and 75% progress reports and final plan submission dates.) Each task within the scope of work must:

- Be numbered
- Contain a detailed description of work to be performed
- Identify those responsible for performing the task
- Identify funding sources, such as; grant monies, entity funds, in-kind services, and cash contributions, necessary to complete the task.
- Include estimated dates for progress reports and the final report.

The Town of Erie (Erie) is submitting this grant application for the update of its State approved 2015 Drought Management Plan (Plan). Erie's 2015 Plan calls for an update every five years. This scope of work outlines the work to be performed by Erie and INTERA to update Erie's Plan. Erie plans to work closely with INTERA in developing a Plan that provides an appropriate level of guidance for Erie to implement its drought mitigation and response programs. The Plan will be developed in parallel with Erie's Water Efficiency Plan update. This provides an opportunity for Erie to streamline the planning processes where appropriate while also ensuring that the plans are integrated in a manner that optimizes both Erie's Water Efficiency Program and Erie's approach to drought mitigation and response. Hours dedicated to each of these plans will be independently tracked for contractual billing purposes between Erie and INTERA Incorporated (INTERA) as well as for administration of the CWCB grants.

Erie has convened a robust Planning Team for updating their 2015 Drought Plan and will be entering into contract with INTERA to guide the update process and author the Plan. Members of the Erie Team are listed in this application along with their position. INTERA will be working closely with Erie staff in updating the Plan. Erie will provide INTERA with the data/information necessary to develop the Plan and INTERA will help ensure that the Plan is developed in accordance with CWCB's CWCB's Municipal Drought Management Plan Guidance Document (Guidance Document).

The primary tasks associated with the Plan update:

- Preparation and facilitation of workshops
- Plan development
- Plan review process
- Project management and grant related administration

**Objectives:** (List the objectives of the project)



- Ensure that the Erie is appropriately prepared for droughts of different intensities and durations.
- Consider the holistic nature of urban water which spans human health, flood protection, pollution, economics, reliable water supplies, climate change, etc. and ensure the Plan update incorporates other related Town planning efforts (e.g. water efficiency plan, capital improvement plan, land use planning, etc.).
- Foster community buy-in and support of the Plan through a public outreach process where representatives can provide input into the Plan.
- Engage with CWCB when necessary to affirm grant funding and ensure the Plan meets CWCB guidelines.

Provide a detailed description of each task using the following format:

#### Task 1 - Preparation and Facilitation of Workshops

Description of Task:

Five workshops will be held with Erie Staff during the development process to obtain input necessary to develop both the Drought Management Plan and Water Efficiency Plans. The workshops will provide an efficient means for incorporating the diverse operational and managerial knowledge of Erie staff responsible for implementing and monitoring the Plan.

#### Method/Procedure:

The workshops will be held with members of the Planning Team to cover the following Drought Management Plans items provided below. Applicable worksheets provided in the CWCB Guidance Documents, visual aids and other materials will be used throughout the workshops to obtain information for the Plan.

INTERA will organize and facilitate the following workshops.

- Workshop A: Overview, Review of the Past and Setting Vision This workshop will address the difference between drought management and water efficiency planning and introduce the *CWCB Municipal Drought Management Plan Guidance Document* and major components of the Plan. Erie staff will be asked to provide input on "big picture items" such as what works well in the existing Plan, are there any major changes/additions to consider, who is the primary audience of the Plan, etc. In addition, exercises will be facilitated to develop Plan objectives, operating principles and water priorities and identify historical drought impacts and future vulnerabilities.
- Workshop B: Technical Discussion This workshop will focus on drought mitigation strategies, drought stages and triggers points, drought index tool, drought response targets and drought response strategies.
- Workshop C: This workshop will focus on components of the Water Efficiency Plan and is not a component of this grant application.
- Workshop D: Selection of Drought Response Measures This workshop will focus on developing the drought response measures for each drought stage and developing the Public Drought Campaign framework.
- Workshop E: Implementation and Monitoring This workshop will review the staged drought response
  program and address the implementation, coordination among Erie departments, monitoring, and
  review and updates of the Plan.

This task also includes correspondence with one Erie staff member to develop supporting materials for the workshops, coordinate the workshops and debrief on each meeting.



#### **Assumptions:**

- INTERA will develop the workshop materials and Powerpoint presentations, will present those materials at the workshops, and will act as a technical facilitator at the workshops.
- Erie will be responsible for identifying and inviting the workshop attendees, scheduling the workshops and providing AV and meeting room accommodations for the workshops.
- The workshop attendees will consist of the Planning Team shown in Table 5 and any additional stakeholders who can provide constructive input in the Plan.
- The workshops will be three to four hours.
- In efforts to streamline communication, outside of meetings INTERA will work with one point of contact representing Erie staff through the Plan update process.

Applicant Deliverable: (Describe the deliverable the applicant expects from this task)

- Agendas, Powerpoint presentations and handouts developed for the workshops
- Electronic images of relevant workshop materials following each workshop

CWCB Deliverable: (Describe the deliverable the applicant will provide CWCB documenting the completion of this task)

See task 3.

#### Tasks

Provide a detailed description of each task using the following format:

#### Task 2 - Plan Development

Description of Task:

This task focuses on the development of the Plan.

Method/Procedure:

INTERA will work closely with Erie staff to develop an effective Plan that meets the needs of the community while also improving Erie's ability to mitigate and respond to drought. The Plan will be developed according to the template provided in CWCB's Guidance Document and include the following sections:

- Stakeholders, Objectives and Principles
- Historic Drought and Impact Assessment
- Drought Vulnerability Assessment
- Drought Mitigation and Response Strategies
- Drought Stages, Triggers Points and Response Targets
- Staged Drought Response Program
- Implementation and Monitoring

#### **Assumptions:**

- INTERA will coordinate planning efforts with one Erie staff member during Plan development.
- INTERA will organize and content of the plan according to the template provided in CWCB's Municipal Drought Management Plan Guidance Document.
- Erie will provide available data necessary for the Plan development in a consolidated electronic format.
- Erie will provide consolidated to comments from key Erie staff in one track changes Word document.



Applicant Deliverable: (Describe the deliverable the applicant expects from this task)

First draft of the Plan for review by key Erie staff (no more than two or three people)

CWCB Deliverable: (Describe the deliverable the applicant will provide CWCB documenting the completion of this task)

See task 3.

#### **Tasks**

Provide a detailed description of each task using the following format:

#### Task 3 - Plan Review Process

Description of Task:

This task entails the review process necessary to ensure an adopted Plan that the community and decision-makers have had an opportunity to provide input on.

Method/Procedure:

Several draft reviews of the Plan are necessary for Erie to officially adopt a Final Plan and receive Plan approval from CWCB. These drafts include:

- Draft for Erie Planning Team Review
- Draft for the Public Review
- Draft for the Erie Board Review
- Draft for the CWCB Review
- Final Plan

A 30-day public review process for the Plan will be done in conjunction with the Water Efficiency Plan public review process. <sup>1</sup> INTERA will develop a single page fact sheet on the Drought Management Plan in support of the public review process and participate in an Open House at the Erie Recreation Center. This will include assisting Erie with the development of an activity to engage members of the public during the Open House. The 30-day public review period will also consist of advertisement of the Plan on Erie's website and through other supportive media. The Plan and fact sheet will be posted on Erie's website and the public will be encouraged to provide comments.

Additionally, INTERA will develop a brief Powerpoint presentation (approximately 10 slides) summarizing the Plan for presentation to the Board and attend one Board meeting. Five drafts of the plan will be developed to address applicable comments from the following reviews:

#### **Assumptions:**

- A single set of comments will be consolidated by Erie staff following each review and provided to INTERA for incorporation in the draft Plan document.
- INTERA will attend/help facilitate one public meeting/open house during the public review period.
- Erie will be responsible for all coordination of the public review period include advertising, collection of public comments into one consolidated document, and making the Plan publicly available.
- The open house will be held for both the Drought Management Plan and Water Efficiency Plan. This scope of work includes effort necessary for the Drought Management Plan.

<sup>&</sup>lt;sup>1</sup> Erie adopted an ordinance during the development of their previous Water Efficiency Plan requiring a 30-day public review for the development of water efficiency plans.



- INTERA will attend one Board meeting to answer questions during the Board review period and provide up to ten Powerpoint slides that may be used to present the Plan to the Board. It is assumed that the Board meeting will cover both the Drought Management Plan and Water Efficiency Plan.
- Erie staff will be responsible for authoring and adopting all applicable ordinances and formal agreements with other entities to facilitate implementation of the Plan.

Applicant Deliverable: (Describe the deliverable the applicant expects from this task)

- Draft No. 1 Plan for Planning Team
- Electronic copy of one-page Fact Sheet for Erie's distribution during the public review period
- Draft No. 2 Draft Plan following the public review
- Draft No. 3 Draft Plan for Board review
- Short Powerpoint presentation (around 10 slides) for the Board Meeting
- Draft No. 4 Draft Plan for CWCB review
- Draft No. 5 Final Plan following CWCB review electronically provided to Erie and CWCB

CWCB Deliverable: (Describe the deliverable the applicant will provide CWCB documenting the completion of this task)

- Draft Plan for CWCB Review
- Final Plan following CWCB review

#### **Tasks**

Provide a detailed description of each task using the following format:

#### Task 4 - Project Management

Description of Task:

This task focuses on the management of the Plan development and grant administration.

Method/Procedure:

INTERA will conduct project management activities and administrative support activities required under CWCB's grant program. This task includes the following activities:

#### **Assumptions:**

- INTERA will submit monthly invoices to Erie including brief progress reports and initiate start-up and close out activities.
- Erie will be responsible for correspondence with CWCB regarding grant monies.
- Progress reports a 25% and 75% completion are required by CWCB for Drought Management Plan recipients. These reports will be submitted electronically to CWCB and Erie, providing the status of each task in the Plan development.
- Development of the progress reports will be limited to a single draft.

Applicant Deliverable: (Describe the deliverable the applicant expects from this task)

- Monthly invoices with brief progress reports.
- Electronic copies of draft 25%, 50% and 95% progress reports and final letter to Erie

CWCB Deliverable: (Describe the deliverable the applicant will provide CWCB documenting the completion of this task)



- Monthly invoices with brief progress reports.
- Electronic 50% and 95% progress reports and final letter

## **Reporting Requirements**

**Reporting:** The applicant shall provide the CWCB a Progress Report at 25% (Feb 1, 2020) 50% (April 20, 2020) & 95% completion (August 1, 2020) of the project. The Progress Report shall address the following:

- the success of meeting previously identified goals and objectives
- obstacles encountered
- preliminary findings or accomplishments
- potential need for revisions to the scope of work and timelines

(The CWCB may withhold reimbursement until satisfactory Progress Reports have been submitted.)

<u>Final Deliverable:</u> At the completion of the project (May 2021), the applicant shall provide the CWCB a final Plan on the applicant's letterhead including a review of the activities completed, an estimate of actual water savings realized (for covered entities), and other information that is relevant to the Board's record of the Project and future use of the Project outcomes.

The CWCB will withhold the last 10% of the grant request until the Final Plan is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or contract will be closed without any further payment.



## Water Efficiency Grant Fund

BUDGET & SCHEDULE

**Date:** October 23, 2019

Project Name: Drought Management Plan

Applicant: Town of Frie

Applicant:	Town of Erie												
Task No.	. Description	Description	Start Date	End Date		(	Consultant(IN Provide hours & h	-			ng Funds In-kind)	WEGF Grant	Total
		\$175		Hours		Reimbursable	Sub Total	Cash	In-Kind	Request			
				\$175	\$150	\$125	Expenses						
1	Preparation and Facilitation of Workshop	11/15/2019	6/7/2020	6	87	12	\$400	\$16,000	\$0	\$9,688	\$16,000	\$25,688	
2	Plan Development	11/15/2019	7/27/2020	8	82	8	\$0	\$14,700	\$700	\$1,050	\$14,000	\$15,750	
3	Plan Review Process	7/27/2020	5/2/21	0	60	0	\$0	\$9,000	\$9,000	\$3,966	\$0	\$12,966	
4	Project Management and Grant Related Administration	11/15/2019	5/2/2021	0	26	0	\$0	\$3,900	\$3,900	\$438	\$0	\$4,338	
	Total         14         255         20         \$400         \$43,600         \$13,600         \$15,142         \$30,000         \$58,742												