



Effects on Recreational Resources Study

MUNICIPALITY OF SOUTH BRUCE

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TRACT

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Table of Contents

1.	Introduction	1
2.	Methodology	6
3.	Existing Facilities In South Bruce	9
4.	Assessment	25
5.	Implementation Plan	61
6.	Guiding Principles	67
7.	Appendices	71

1 Introduction

1. INTRODUCTION

1.1. Background and Context

The *Effects on Recreational Resources Study (Study)* is one of a series of community studies that have been undertaken by the Municipality of South Bruce (MSB). This study, along with the others, is expected to help South Bruce leadership and residents make informed decisions about whether the NWMO's Adapted Phase Management (APM) Project (Project) is a good fit for their community, if they are willing to consider hosting it and under what circumstances and terms. The APM Project involves the installation of a deep repository for used nuclear fuel, as well as subsequent maintenance and management. The NWMO has currently narrowed down its site selection options to two municipalities, the Municipality of South Bruce (MSB) and the Township of Ignace, ON. The NWMO plans to complete all preliminary assessment work and select one community/area to host the Project by 2023.

1.2. Purpose and Scope of The Effects on Recreational Resources Study

The purpose of this *Study* is to identify the need for increased provision of recreational resources related to future population growth in the Municipality of South Bruce. More specifically, the *Study* aims to identify what portion of this need would be

contributed by the APM Project, should it go ahead. For this reason, population growth scenarios for both a "Base" scenario (assuming the Project does not go ahead) and an "Impact" scenario (assuming the Project goes ahead) were created, with the difference between the two comprising the effect size of the APM Project.

The Study scope can be broken down into discrete tasks, which is elaborated upon in Section 2:

1. Inventory the utilization of existing recreational resources in the Municipality of South Bruce to identify current service capacity and availability.
2. Based on the inventory, identify the gap in recreational resources and the strategies that could be utilized to meet the potential future demand. As per the *Statement of Work* supplied by the Municipality, this will include:
 - Identifying the potential for incremental expansion of recreational resources on new municipally owned lands.
 - Identifying the potential for incremental expansion of recreational resources on current municipally owned lands.
 - Identifying the potential for new municipal owned recreational lands to meet the future demand.
3. Identify timelines to align recreational resource availability with anticipated demographic shifts.
4. Assign Class D costs associated with the development and expansion of new facilities.

1.3. Land Acknowledgement

It is acknowledged that the lands and communities discussed in this report are situated on the Traditional Territory of the Anishinabek Nation: The People of the Three Fires known as Ojibwe, Odawa, and Pottawatomie Nations. The Chippewas of Saugeen and the Chippewas of Neyaashiinigiing (Nawash), now known as the Saugeen Ojibway Nation, are the traditional keepers of this land and water. It is also recognized that the ancestors of the Historic Saugeen Métis and Georgian Bay Métis communities shared this land and these waters.

1.4. Peer Review Approach

The Municipality of South Bruce (MSB) is responsible for the completion of the *Effects on Recreational Resources Study*. This study was undertaken by Tract Consulting Inc. (Tract). The *Effects on Recreational Resources Study Report* is an MSB-led study, with the MSB determining the scope and spatial boundaries. As such it will not be reviewed as part of the MSB consultants Peer Review Protocol. Notwithstanding this, South Bruce requested that GHD carry out a technical peer review of all municipally led community studies reflecting the approach and intent of the peer review protocol to maintain the same level of reporting consistency and reliability across all 24 socioeconomic community studies.



1.5. Guiding Principles

The *Effects on Recreational Resources Study* is relevant to the following MSB Guiding Principles (2020) for NWMO’s Site Selection Process: Section 6 illustrates how the Guiding Principles are informed in this Study.

- #6: “The NWMO will minimize the footprint of the repository’s surface facilities to the extent it is possible to do so and ensure that public access to the Teeswater River is maintained, subject to meeting regulatory requirements for the repository.”
- #10: “The NWMO will identify the potential for any positive and negative socio-economic impacts of the Project on South Bruce and surrounding communities and what community benefits it will contribute to mitigate any potential risks.”
- #29: “The NWMO will prepare an infrastructure strategy that addresses any municipal infrastructure requirements for the Project and will commit to providing appropriate funding for any required upgrades to municipal infrastructure required to host the Project in South Bruce.”
- #32: “The NWMO, in consultation with the Municipality and other local and regional partners, will prepare a strategy to ensure there are sufficient community services and amenities, including health, child-care, educational and recreational facilities, to accommodate the expected population growth associated with hosting the Project in South Bruce.”

1.6. Spatial and Temporal Boundaries

This study focuses on the effects on recreational resources solely within the Municipality of South Bruce. The time frames covered by the *Effects on Recreational Resources Study* are as follows:

- Near-term (2021 to 2031)
Aligns with completion of the site preparation phase in 2032.
- Mid-term (2031 to 2041)
Aligns with completion of construction phase in 2042.
- Long-term (2046)
Aligns with beginning of operations phase.



2 Methodology

2. METHODOLOGY

2.1. Population Growth Assumptions

All assessments conducted in this *Study* are based on the population growth assumptions described in *The South Bruce Growth Expectations Report* (metro economics, 2022). Note that these projections are for the MSB as a whole and not by community; the *Growth Expectations Report* does not describe how growth will be divided between the communities of Mildmay, Formosa, Teeswater, and the remainder of the MSB.

2.2. Inventory and Assessment

Overall, utilization data for each recreation resource assessed by this report varies in quality and quantity from resource to resource. This is to be expected given the range of resources involved; the use of a hockey arena, with a number of registered teams, is much more readily documented than the number of visitors a neighbourhood park gets every year. For this reason, a range of approaches have been taken to inventory utilization and assess need.

Utilization Inventory

Wherever possible, the utilization of a resource by residents is inventoried using data obtained directly from recreation facility staff and program providers. If such data are available, then typically the existing participation rates are held constant into the future against future population projections to get an estimate in numbers of future participants.

When utilization of a resource is not known directly, it is typically inferred from national participation rates. If national participation rates are not known, then inferences are made from the stakeholder interviews and the community survey results from the Phase 1 Report, the *Recreation Master Plan (2022-2032)*.

Assessing Need

In certain cases, the capacity of existing resources to serve an increased number of participants is relatively easily quantified and the overall need can be determined in straightforward fashion. Generally, these are resources where a finer-grained level of detail has been made available (schedules, teams, total hours of operation), and recreational activity is highly organized.

In other cases, the need associated with increased populations is less obvious and it is beneficial to use industry-standard ‘benchmarks’ that describe an ideal ratio of resources to population. For this *Study*, the benchmarks used are those provided by the National Recreation and Parks Association (NRPA) of the United States for populations under 20,000 people. Throughout the *Study*, benchmarks are compared to future service provision as illustrated in the table below. The NRPA benchmark ratio of 12:4 ac per 1000 people is shown in the far-left column, while the remaining columns show the same ratios under population projections from 2021 to 2046 Base and Impact scenarios, assuming the existing number of resources remains constant. The green and red arrows indicate whether the Municipality is projected to be overserved (green) or underserved (red) relative to the benchmark in the future, for both Base and Impact growth scenarios.

Example Table - Existing and Projected Level of Service Compared to NRPA Benchmark

Existing Acres of Parkland	Year	NRPA Benchmark	2021	2031		2041		2046	
	Base/Impact Case		Base	Base	Impact	Base	Impact	Base	Impact
	Population		6250	7420	7620	8400	9040	8760	9540
84.5 ac		12.4 ac: 1,000	13.5 ac: 1,000 ↑	11.4 ac: 1,000 ↓	11.1 ac: 1,000 ↓	10.1 ac: 1,000 ↓	9.35 ac: 1000 ↓	9.64 ac: 1,000 ↓	8.86 ac: 1,000 ↓

↑ - Municipality is overserved in the provision of this facility relative to NRPA Benchmark.

↓ - Municipality is underserved in the provision of this facility relative to NRPA Benchmark.

Benchmarks are provided wherever applicable. However, it should be noted that generally, the Study prioritizes conclusions based on finer-grained data over those based on benchmarking alone.

Access Considerations

For certain resources needs are assessed on a community level in addition to a municipality-wide one. Namely these are the resources that are specifically based on unstructured activities (for example, Parks, Trails, Playgrounds, and Outdoor Rinks).

2.3. Data Collection/Information Sources

Aside from the South Bruce and Area Growth Expectations Report (metro economics, 2022) and the Housing Needs and Demand Analysis Study (Keir Corp., 2022), the author also consulted the Infrastructure Baseline and Feasibility Study (Morrison Hershfield, 2022). Also, The NRPA Agency Performance Review 2021, as mentioned above, was a source of benchmark metrics. A primary source of information was the Municipality of South Bruce Recreation Master Plan (2022-2032) (Tract Consulting Inc., 2022).

Knowledge Holder Interviews

Findings from interviews conducted during preparation of the *Recreation Master Plan (2022-2032)* informed this Study. Interviews were conducted with the following groups:

- Municipality of South Bruce Council Members
- Municipality of South Bruce Senior staff
- Service groups
- Sports groups
- Tourism and business organizations
- Volunteer service providers
- Private sector and not for profit service providers
- Municipality of South Bruce Parks and Recreation Advisory Committee (RAC)

Limitations

The *Effects on Recreational Resources Study* predicts recreational impacts (and needs) 25+ years out. Demand for recreational resources is impacted by evolving trends, including trends in societal and individual behaviors and preferences. How these trends change over a 25+ year period is difficult to predict. Therefore, Tract has made assumptions that recreation trends, particularly related to activity and sport participation trends, as well as community values and interests, will not change significantly over the long term.

As mentioned, this Study also uses population growth targets stated in the *South Bruce and Area Growth Expectations Report* (metro economics, 2022) and assumes that these targets will be realized.

3 Existing Facilities in South Bruce

3. EXISTING FACILITIES IN SOUTH BRUCE

The following information was obtained from the *Recreation Master Plan (2022-2032)*.

3.1. Indoor Recreation Facilities + Spaces

The following table lists the indoor recreation facilities available in South Bruce in 2022.

FACILITY TYPE	QUANTITY	LOCATION
Ice Arenas	2	Teeswater- Culross Community Centre Arena Mildmay – Carrick Recreation Centre
Community Centres	3	Teeswater- Culross Community Centre Mildmay – Carrick Recreation Centre Formosa Community Centre
Gymnasias (Note: not all schools responded to our questionnaire: this number thus assumes all schools have a gymnasium and that public access is permitted)	5	Bluewater School District School Board: Mildmay-Carrick Public School Hillcrest Central School, Teeswater Bruce-Grey Catholic School District École Immaculée-Conception Mildmay Sacred Heart School Sacred Heart School, Teeswater
Fitness Centres	1	Freezer Fitness, Mildmay (private)
Pickleball Courts	7	Mildmay-Carrick Recreation Centre Teeswater-Culross Community Centre Formosa Community Centre
Libraries	3	Bruce County Library at Mildmay Bruce County Library at Teeswater Community Library at Formosa Recreation Centre
Theatre/Performance Space	1	Teeswater Town Hall

FACILITY TYPE	QUANTITY	LOCATION
Kitchens	6	Formosa Recreation Centre (x1) Formosa Community Centre (x2) Mildmay-Carrick Recreation Centre (x1) Teeswater-Culross Community Centre (x1) Teeswater Town Hall (x1)
Meeting Rooms	3	Mildmay-Carrick Recreation Centre Teeswater-Culross Community Centre Teeswater Town Hall
Halls/Public Event Spaces	3	Mildmay-Carrick Recreation Centre Teeswater Community Centre Hall Formosa Community Centre



3.2. Outdoor Facilities + Spaces

The following table lists the outdoor recreation facilities available in South Bruce.

FACILITY TYPE	QUANTITY	LOCATION
Soccer Pitches	3	Mildmay- Carrick Public School Arena Park, Mildmay Teeswater Hillcrest Elementary
Ball Diamonds	5	Formosa Ball Park (x1) Mildmay-Carrick Arena/ Ball Park (x1) Carnegie Park, Mildmay (x1) (aka Old Ball Park) Teeswater-Culross Fairgrounds /Park (x2)
Walking Trails	Several kilometres	Mildmay Rotary Park. Approximately 2 km trail Lions Wilderness Park. Short (under .5km) trail section Approximately 20km of the multi-use Bruce County Rail Trail passes through the Municipality of South Bruce Carrick Tract Trail is a 6.5 km network of primarily mountain bike trail but also open to walkers, cross country skiing and snowshoeing. Mildmay Carrick Managed Forest (managed by the SVCA) provides 3.5 km of multiuse trails (equestrian, biking, walking, skiing and snowshoeing).
Cross Country Ski and Snowshoe Trails		All trails listed above are open for winter use.
Snowmobile Trails		Generally, the snowmobile trails cross farm fields (with permission) and also make use of some road sections and the Rail Trail. Snowmobile trails are managed by the Ontario Federation of Snowmobile Clubs.
ATV Trails		Bruce County Rail Trail is open to ATV use. ATVS are permitted on almost all roads in the municipality
Pavilions	3	Formosa Lions Park Lions Mildmay Carrick Pavilion, MC Arena Park Teeswater Culross Community Centre

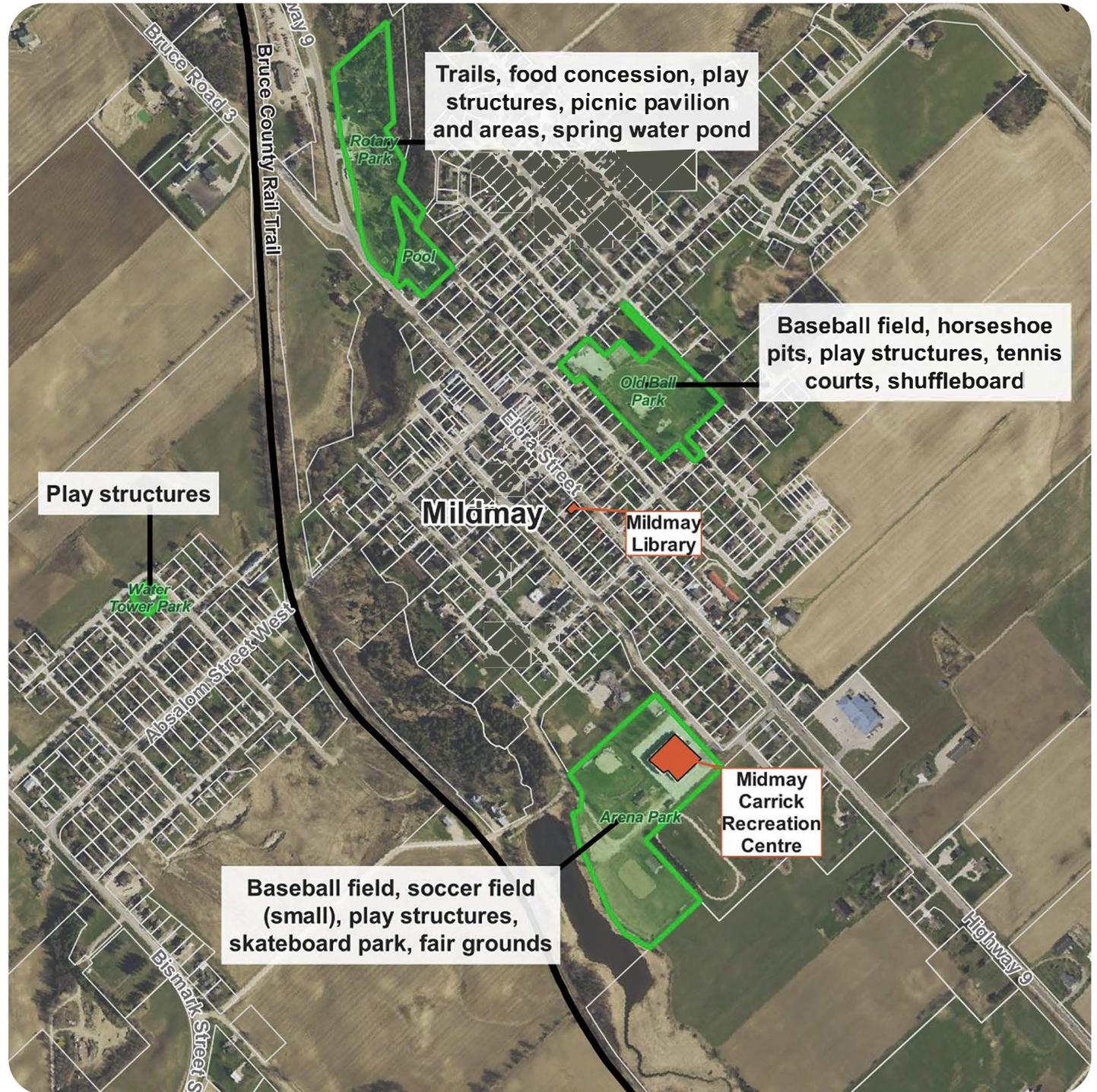
FACILITY TYPE	QUANTITY	LOCATION
Fairgrounds	2	Mildmay Fairgrounds Teeswater Fairgrounds
Tennis Courts	2	Mildmay Carnegie Park
Pickleball Courts	2	Mildmay Carnegie Park court restoration will include Pickleball
Skateparks	1	Mildmay Optimist Arena Park
Playgrounds	8	All parks listed below have play structures
Outdoor Gyms	2	Teeswater Arena and Ball Park Mildmay Carnegie Park
Outdoor Swimming Pool	2	Mildmay-Carrick Pool Teeswater-Culross Pool
Parks	8	Formosa Lions Park Formosa Recreation Centre and Ball Park Mildmay Arena Park Mildmay Carnegie Park Mildmay Rotary Park Mildmay Water Tower Park Teeswater Arena and Ball Park Teeswater Lions Park and Pool Site
Outdoor Rink	1	Formosa Recreation Centre and Ball Park
Campgrounds	2	Formosa Lions Park (28 Sites) Teeswater – Culross Fairgrounds RV Park (46 sites)

3.3. Maps of Existing Recreation Facilities



*Formosa Existing
Facilities Map*

Mildmay Existing
Facilities Map





Pool, play structures, picnic pavilion.

Park and Pool

Hillcrest Street East

Teeswater Library

Teeswater Town Hall

Teeswater

Arena and Ball Park

Teeswater Culross Community Centre

Baseball fields, play structures, limited trails, concession, picnic pavilion, horse ring, horse track, agriculture exhibit facilities, RV sites, haunted house.

Teeswater Existing Facilities Map

- Secondary Highway
- ▬ Bruce County Rail Trail
- SVCA and County Trail Locations
- ▭ Bruce County Municipality Boundary

County Trails



3.4. Programs Offered in South Bruce

The following table lists programs provided in 2022 by both the municipal department of recreation and others in the community as identified in the *Recreation Master Plan (2022-2032)*. (Note the list is based on information gathered and while every attempt was made to be thorough, the list may not be exhaustive.)

Provider	Programs
Municipal Led Programs	Kickboxing Fitness Hockey Skills Camp Youth Kickboxing Wellness Programs Canada Day Festival Seniors Program (cards, crokinole) Swimming Lessons Pickleball and Tennis
Volunteer Led Sport Programs	Minor and Adult Hockey Minor Soccer Minor and Adult Baseball Swimming Team Lawn Bowling Junior Broomball Curling
Volunteer-Led Leisure Programs	Quilters Guild Red Hat Ladies Highland Pipe Band
County Led Programs	EarlyON Child and Family Programs Library Programs (all ages)
Private Fitness Centres	Freezer Fitness – Fitness classes
Private and Not for Profit Arts and Cultural Programs	Studio410 – music classes, dance classes / musical theatre – performance program
Service Clubs and Volunteer Organizations	16 Clubs develop and operate parks and facilities improve environment fundraise host community events
Chamber of Commerce Events	Shopping Night Stout and Kraut Bavarian Street Festival Hanging of the Green
South Bruce Tourism Committee	South Bruce Vintage Tractor Flavours of South Bruce



3.5. Recreation Master Plan (2022-2032) – Summary of Recommendations

The *Recreation Master Plan (2022-2032)* put forth several recommendations that address current community needs for new or enhanced facilities and amenities in the Municipality of South Bruce. These recommendations are referenced throughout this Study.

Indoor Facility Recommendations

INDOOR FACILITY RECOMMENDATIONS, PRIORITIES, TIMELINES			
Recreation Facility	Need	Recommendation	Timeline
Community Centres and Arenas	Replacement Plan for End of Useful Life of Community Centres and Arenas	Prepare a Feasibility Study and Operational Plan for eventual replacement of its Arenas and Community Centres once the end of its useful life has been reached.	2028-2030
	Increased Use of Existing Facilities	Engage an architect to undertake an assessment of its existing recreation and community centres to determine how best to transform existing spaces into attractive and multi-functional spaces.	2022-2024
	Improved Meeting Spaces	Soundproof and enhance technological capabilities (Wi-Fi, internet) in meeting spaces.	2028-2030
	Youth Spaces	Reserve and adapt spaces in each community centre for youth.	2025-2027
Teeswater Town Hall	Transform Teeswater Town Hall into an Arts and Cultural and Performance Hub	Investigate the feasibility of designating Teeswater Town Hall as an arts/cultural and performance hub.	2025-2027

Outdoor Facility Recommendations

OUTDOOR FACILITY RECOMMENDATIONS, PRIORITIES, TIMELINES			
Recreation Facility	Need	Recommendation	Timeline
Trails	More Trails and Improved Connectivity	Complete a detailed concept for trail expansion and connectivity. This will include resolving land ownership issues or finalizing alternative routes for sections that cannot be accessed.	2022-2024
Parks	Expanded Recreation Opportunities in Parks	Formosa Lions Park Upgrade the playground surface material to CSA standards to improve safety and accessibility.	2025-2027
		Formosa Recreation Centre and Ball Park Develop a refresh Design Plan for the Formosa Recreation Centre and Ball Park that reimagines the park spaces to enhance multi-functionality, accessibility and beautification.	2025-2027
		Mildmay Arena Park Develop a Park Master Plan for the Mildmay Arena Park that reimagines the park spaces to improve connectivity to the Mildmay-Carrick Community Centre, and adds more fun amenities for children, teens, and families while also accommodating the Mildmay -Carrick Fall Fair. Develop Park Plans to improve school grounds in partnership with the school boards if additional parkland is required within the next ten years.	2022-2024
		Mildmay Old Ball Park Upgrade the tennis court to a multi-use court and remove shuffleboard (or replace if demand grows).	2022-2024
		Mildmay Old Water Tower Update and rearrange structures to be closer together; add protective surfacing, seating, and planting areas.	2028-2030
		Teeswater Arena and Ball Park Develop a Park Master Plan for the Teeswater Arena and Ball Park that reimagines the park spaces to improve connectivity to the Community Centre and Arena, and adds more fun amenities for children, teens, and families while also accommodating the annual Teeswater Fair.	2025-2027

OUTDOOR FACILITY RECOMMENDATIONS, PRIORITIES, TIMELINES			
Recreation Facility	Need	Recommendation	Timeline
Teeswater River	Improve Access to the Teeswater River	Explore the opportunity to develop a Teeswater River paddle route including access points with the Saugeen Valley Conservation Authority and local landowners.	2022-2024
Athletic Fields and Amenities	Improve Quality of Athletic Fields and Amenities	Ball Diamonds Upgrade the ball diamonds (infield clay, bases, outfield surface, dug outs).	2022-2024
		Soccer Pitches Upgrade soccer field surfaces to athletic field standards, and add new nets, benches, and team shelters. Monitor ball diamond usage post Covid and if participation in soccer declines, consider designating the fields for multi-use free play space.	
Splash Pad	Develop a New Splash Pad	In the short term, the Municipality should develop at least one splash pad with qualities to attract families from all over the Municipality.	2022-2024
		It should also seek to develop additional splash pads in the other communities in the medium term as the community continues to grow.	2025-2027
Tennis, Pickleball, and Multi-Use Courts	Continue to upgrade tennis and pickleball courts & add new Multi-Use Courts	Develop one multi-use court in Mildmay and one in Teeswater. Convert these to volunteer- run outdoor rinks in the winter. Develop a multi-use court at the Formosa Outdoor Rink as part of its restoration.	2022-2024
Campgrounds	Upgrade RV Campgrounds electrical capacity	Upgrade the electrical capacity at the Teeswater Fairgrounds and Formosa Lions Park.	2028-2030

Program Recommendations

PROGRAM RECOMMENDATIONS, PRIORITIES, TIMELINES			
Programs	Need	Recommendation	Timeline
Activities	A Broader Range of Programs and Activities	Expand programs and activities, festivals and events, and recreational level sports available in the community to meet the recreation needs of all citizens.	2022-2024
Staffing	More Program Staff	Hire a program coordinator. Eventually augment capacity with additional staffing as required.	2022-2024
Partnerships	Improve Engagement with and Provide More Support to Volunteers	Engage with all volunteers on a regular basis.	2022 Onwards
		Hold biannual networking sessions with volunteers.	
		Host volunteer appreciation events, such as an annual banquet.	
		Include the responsibilities of developing and implementing a volunteer program in the new Program Coordinator’s role. If this is beyond the capacity of the program coordinator, the Municipality should hire a program coordinator assistant.	
	Expand Partnership Opportunities	Meet with the EarlyON Child and Family Centres (Bruce County) to determine how the recreation department can support their provision of child and family programs in South Bruce.	2020-2027
		Partner where possible with other organizations, municipalities, and school authorities in the provision of recreation services, facilities, and spaces.	2022-2024
Programs for Youth Spaces	Identify community partners to provide programming, supervision, and funding		
Programs for Teeswater Town Hall Arts and Cultural and Performance Hub	Strengthen partnerships with all organizations, businesses, and not for profit organizations, that provide arts and cultural programming in the Municipality. Develop an Arts and Cultural Action Plan.		
Sponsorship and Naming Rights	That the Municipality develop a Sponsorship and Naming Rights policy and guidelines.	2025	



4 Assessment

4. ASSESSMENT

4.1. Ice Arenas

Utilization Inventory

The MSB currently owns and operates two indoor ice arenas: one in the Teeswater-Culross Community Centre and one in the Mildmay-Carrick Recreation Centre. Each has a single ice pad. (Note that the Formosa *outdoor* rink is discussed in Section 4.10.)

The number of MSB residents who participate in minor and adult ice hockey per week was estimated based on information from arena staff to be about 470 people, or approximately 7.5% of the total population of South Bruce. Numbers playing broomball, pre-COVID-19, were provided by the organization at 120. The table below shows the projected increase from existing (2022 column) of residents participating in hockey and broomball for both Base and Impact cases. Recreational skating has been omitted as the number of residents who directly participate is highly variable week to week.

Existing and Projected Number of Arena Participants per Week – MSB Residents Only

Activity	Year	2022	2031		2041		2046	
	Base/Impact	Base 6250	Base 7420	Impact 7620	Base 8400	Impact 9040	Base 8760	Impact 9540
Ice Hockey Participants		470	557	572	630	678	657	716
Broomball Participants		120	148	152	168	181	175	191

Data on current hours of ice-time per week were gathered from schedules provided by the manager of recreation and facilities, with prime-time availability totalled at 102 hours per week over both sheets. Ice Hockey by MSB residents is currently estimated at 45.5 hours/week, while broomball is played for nine hours a week. Under these criteria, hours of time per participant work out to approximately 0.097 hours a participant for hockey and 0.075 hours a participant for Broomball. In the below table, these ratios were applied to the projected increases to derive a total projected number of hours required.

Note that for recreational ice skating we used the current number of hours used for this activity which is currently at 5.5 hours of ice-time per week. Assuming the same level of service is to be provided in the future, this number has been multiplied by general factors of population increase to arrive at a working number of hours required for a given population increase (i.e., Current hours x (projected/ current population)).

Existing and Projected Hours of Ice Time Required Per Week, MSB Residents Only

Activity	Year	2022	2031		2041		2046	
	Base/Impact	Base	Base	Impact	Base	Impact	Base	Impact
Ice Hockey		45.5	53.98	55.44	61.11	65.77	63.73	69.40
Broomball		9.00	11.13	11.43	12.60	13.56	13.14	14.31
Recreational Ice skating		5.5	6.53	6.71	7.39	7.96	7.71	8.40
Total Prime Time Hours Used		60	71.64	73.57	81.10	87.28	84.58	92.11
Remaining Prime time hours (102 minus Used)		42	30.36	28.43	20.90	14.72	17.42	9.89

At first glance it appears remaining hours are plentiful, and the arenas should be able to accommodate additional population easily. However, it should be remembered that this usage pattern is based on resident use only. There are also 39 hours per week used by a largely non-resident population, namely hockey leagues from Walkerton and Saugeen Maitland. We would therefore expect the arenas to be beyond capacity when the available ice-time dips below 39 hours. Based on the above projections, this would be sometime after the next two (Base) to 2.5 (Impact) years. From that time on, a deficit of hours is present to meet demand of both residents and non-residents, topping out at 29.11 hours (39 hours minus 9.89) in a 2046 Impact scenario.

NRPA Benchmarking

The NRPA benchmark is one ice arena per 7911 people. Based on this figure, the Municipality is overserved and will continue to be overserved in its provision of ice rinks to local residents up to 2046.

Existing and Projected Level of Service Compared to NRPA Benchmark

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact Case		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	Not Applicable (N/A)	7420	7620	8400	9040	8760	9540
Facilities per Population	1:7911	1:3125 ↑	N/A	1:3710 ↑	1:3810 ↑	1: 4200 ↑	1: 4520 ↑	1: 4380 ↑	1:4770 ↑

↑ - Municipality is overserved in the provision of this facility relative to NRPA Benchmark.

Effects and Strategies

Currently both utilization data and benchmarking data agree: the Municipality should have more than sufficient ice-time hours to serve its residents into 2046 and possibly beyond. However, should the Municipality decide to continue accommodating non-residents at the current level of service, it will have to consider how to meet additional demand for prime-time ice. Options for MSB’s consideration include:

- Develop a policy that gives priority to residents of the Municipality of South Bruce.
- Develop formal partnerships with neighbouring municipalities that have surplus ice time.
- Review scheduling to look for efficiencies. This would require consultation with all participants but may be the most feasible option as revenue from non-resident user groups is maintained.

These strategies can be pursued separately or in combination but should be prioritized over building entirely new facilities; proceeding with such a course of action is not advisable based on the above-reviewed data alone. This is particularly true in light of the fact that there is no obvious growth trend for ice hockey nationally, provincially, or locally. In fact, minor hockey numbers are declining at all these scales; including in Ontario where participation has declined from 92,650 in 2015 to 89,400 in 2019 (<https://www.thestar.com/sports/hockey/2021/06/15/its-not-an-automatic-minor-hockey-is-fighting-to-win-players-back.html>). In the future there will likely be more emphasis on hockey for underrepresented groups such as girls and visible minority groups, but it is uncertain that this will cause an absolute increase in participant numbers.

Beyond the scope of this Study, a case may yet be made for building new facilities based on the aging of facilities. The 2016 Asset Management Plan for the Municipality of South Bruce estimated, based solely on age-based data, that the facilities will reach the end of their useful life by 2026-2030. The Municipality is currently undertaking an assessment of the Teeswater-Culross Community Centre and the Mildmay-Carrick Recreation Centre, including arenas, which will confirm actual condition and life expectancy, and what, if any, retrofits are required to extend its useful life. The assessment will clarify when or if facility replacement is necessary.

4.2. Community Centres

The Municipality of South Bruce has three Community Centres:

- Teeswater- Culross Community Centre (TCCC)
- Mildmay – Carrick Recreation Centre and (MCRC)
- Formosa Community Centre (FCC)

NRPA Benchmarking

The NRPA benchmark is one community centre per 9045 people. Based on this figure, the Municipality is overserviced and will continue to be well serviced in its provision of community centres up to 2046 and beyond.

Existing and Projected Level of Service Compared to NRPA Benchmark

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact Case		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	N/A	7420	7620	8400	9040	8760	9540
Facilities per Population	1:9045	1:2083 ↑	N/A	1:2473 ↑	1:2540 ↑	1: 2800 ↑	1: 3013 ↑	1: 2920 ↑	1:3180 ↑

↑ - Municipality is overserviced in the provision of this facility relative to NRPA Benchmark.

All three community centres serve as important social places for the community of South Bruce. The centres include amenities such as halls, stages, meeting rooms, kitchens, and bars. The Teeswater- Culross Community Centre (TCCC) and Mildmay – Carrick Recreation Centre (MCRC) each have an ice arena (discussed separately). The community centres do not have gymnasias. In addition to the three community centres is the Formosa Recreation Centre which has a community library, kitchen, hall, and meeting room.

Current residents value the community centres but would like the spaces to be more multifunctional to support additional programming and activities in the Municipality. New residents to the community will also likely expect and want a variety of programs to be available in the community.

The *Recreation Master Plan (2022-2032)* found that current residents want:

- More programs and activities for children, teens, families, and adults
- More exercise programs for seniors and, in Formosa, more opportunities for indoor walking
- More outdoor and nature-oriented activities
- More arts and culture programs generally
- More opportunity and spaces for recreation level sports
- More festivals and events that build a sense of community
- More inclusive programming and policies

Programs are essential for social cohesion and creating a sense of community and pride. With enhanced programming, the community centres will serve a critical role in meeting the needs of current residents, welcoming and integrating new residents to the community, and ensuring new residents feel a sense of belonging and attachment. Programs and activities at the community centres will also provide opportunities for new residents to volunteer, which is of great benefit to the community. (See Appendix A for a list of potential programs).

The *Recreational Master Plan (2022-2032)* recommended that spaces within the community centres be modified to create flexible program spaces which will allow a wider variety of leisure programs to be offered in the Municipality. Flexible spaces can be created by adding features such as retractable walls and removable amenities (i.e., electronic gaming equipment). The *Recreation Master Plan (2022-2032)* also recommended that a flexible youth space be created in the community centres, and that meeting spaces be upgraded with sound proofing and enhanced technological capabilities.

Additional Considerations

The ongoing condition and life expectancy assessment of community centres and arenas discussed in Section 4.1 will clarify necessity and timelines of facility replacement and renovations. The assessment findings could impact the need to create flexible program venues in existing community centres if it is determined the community centres need replacement. If this is the case, the *Recreation Master Plan (2022-2032)* recommendation that, between 2028-2030, a Feasibility and Operational Plan be prepared for the eventual replacement of community centres once end of life has been reached should be undertaken immediately, rather than later.

Effects

Enhanced spaces and programmed community centres will serve an essential role in attracting, welcoming, and integrating new residents into the community, while meeting the recreation needs of current residents.

Strategies

- As per the *Recreation Master Plan (2022-2032)*, engage an architect to undertake an assessment of the recreation and community centres to determine how best to transform exiting spaces into attractive and multi-functional spaces.
- Seek funding from partners including NWMO to undertake renovations.

Timelines

- Architectural assessment (2022-2024).
- Seek funding from partners including NWMO to undertake renovations (2025).

Estimated Cost

- Architectural assessment: Re: Creation of flexible spaces \$34,500.
- Capital costs are separate from this and will be determined by the proposed architectural assessment.

4.3. Public Libraries

There are two public libraries in South Bruce, the Bruce County Library at Mildmay and the Bruce County Library at Teeswater. A smaller volunteer led Community Library, not part of the Bruce County Library System, is located in the Formosa Recreation Centre. In 2022, there were 620 registered active members in Teeswater and 576 registered active members in Mildmay.

To understand the effects of the APM Project on public libraries, the current participation rate as reported in the *Bruce County Public Library Branch Profile June 2021* was extrapolated to future populations (See Table below). In this instance the current participation rate used is the number of active memberships at 1196 (620 + 576), or 19%, of the South Bruce population.

Projected Effects of Anticipated Growth on Library Membership: Base Case and Impact Case

No. Memberships (Participation Rate) (19% Population)	Year	2021		2031		2041		2046	
	Base/Impact	Base	Impact	Base	Impact	Base	Impact	Base	Impact
	Population	6250	N/A	7420	7620	8400	9040	8760	9540
		1196	N/A	1410	1448	1596	1718	1664	1813
Growth in Memberships				214	252	400	522	468	617
Effect of APM on South Bruce Library Memberships (Base minus Impact)					38		122		148

The table illustrates that library membership is projected to increase from 1196 members in 2022 to 1813 members at Impact Case in 2046, an increase of 617 members. The growth in membership due to the APM Project only (Base minus Impact) is 38 members by 2031, 122 members by 2041, and 148 members by 2046.

Memberships, however, do not paint a full picture of library utilization. Membership cards are only required to access the collections, which includes physical books, non-traditional items (pedometers for example), and online resources such as eBooks. A card is not required to use computers, Wi-Fi, or library programs. Since libraries are unable to track the use of services which do not require a card, it is not possible to provide an accurate number of users. Additionally, a single card often serves an entire family, so membership is higher than the number of registered cards.

Role of Libraries

South Bruce Libraries can have a significant role in welcoming and integrating new residents into the community. The *Bruce County Public Library Strategic Plan, 2022-2025* focuses on enhancing the role of libraries in the community and the services they offer. The plan's three strategic priorities are for libraries to serve as a:

- A. Trusted Community Connector
- B. Digital Community Facilitator
- C. Community Sharing Place

Welcoming newcomers with local information packages and connecting them with the resources they need to thrive in their new community is a strategic priority under Trusted Community Connector.

ARUPLO Guidelines and Level of Service

The Administrators of Rural and Urban Public Libraries of Ontario (ARUPLO) guidelines are expressed as targets to meet an appropriate level of service. Guidelines include categories such as library size, hours of operation, staff complement, user seating, etc. The guidelines define four branch sizes: small, medium, large, and urban. Each branch type has minimum guidelines. The Teeswater and Mildmay branches are categorized as small branches.

However, as per the *Bruce County Public Library Branch Profile*, and confirmed by Brooke McLean, the Director, Library Services, Bruce County Public Library, neither Teeswater nor Mildmay Library fully meet the minimum ARUPLO guidelines for a small branch.

ARUPLO Select Guidelines for Mildmay and Teeswater Libraries

ARUPLO	Small Branch Guidelines	Mildmay	Teeswater
Net library space (sq. ft.)	2,500–5,000 sq. ft	1410 sq. ft	1456 sq. ft
Number of user seats, including computer seating	15-30	14 seats	32 seats
Number of Public Internet Stations	3-5	3	3

The assignable library space at Mildmay Branch (1,410 sq. ft) is smaller than the ARUPLO guideline of 2500-5000 sq. ft. Teeswater, at 1456 sq. ft is also smaller than the guidelines. Ideally, the branches would be larger as this would meet minimum guidelines, accommodate growth, and allow room for enhanced programming.

Consultations with Director Brooke McLean and a review of the *Recreation Master Plan (2022-2032)* confirm that the Mildmay Library could move to a hub format, as a component of the Mildmay-Carrick Community Centre for example. However, the Teeswater branch would most likely remain at its current location as it is in an attractive, recently renovated heritage building.

A Mildmay Library/Mildmay-Carrick Community Centre hub format would be better able to respond to trends in library design (see below). Additionally, this model would allow the Community Centre and library to share program space, further enhancing program opportunities in South Bruce.

The County library does not have the budget to support increased rental costs but would explore the possibility with the Municipality if it were interested in supporting such a move.

Trends in Library Design

Globally, library programs have undergone significant changes driven by the movement toward serving as community hubs. Modern libraries provide features such as:

- Reception spaces that are warm and inviting; such spaces facilitate interactivity, and include informal seating
- Collaborative spaces with flexible furniture where visitors can work together while accessing technologies
- Mixed use spaces that serve as places to encourage informal learning, social interaction, and exploration. These spaces may include cafes/coffee bars.

Effects

Libraries will serve an important role in welcoming newcomers and providing opportunities to integrate with and become a part of the community. A new hub style format for the Mildmay Library would better enable the branch to implement the Strategic Plan and create an ideal community space that supports enhanced programming to residents and newcomers of all ages. Consideration should be given to connecting the new facility to Mildmay-Carrick Community Centre so that shared program space and Arena Park amenities better support community programming.

Strategies

- In partnership with NWMO and Bruce County Public Libraries, the Municipality should explore the opportunity to build a new Mildmay Library in proximity to or connected to the Mildmay- Carrick Community Centre.

Timelines

- Discussions could begin in 2022 -2023 and project completion should be targeted for 2031-2041.

Estimated Cost

- \$2M (5,000 sq. ft @ \$400 sq. ft.)



4.4. Theatre

The Municipality has one theatre – The Teeswater Town Hall. The Town Hall is a key cultural asset to the Municipality, as it provides a venue to showcase the stories, heritage, and talent of South Bruce. The Town Hall contributes to a vibrant community and supports economic and tourism product development.

Access to arts and cultural activities contributes significantly to fostering attachment to place (Knight Foundation, 2020). Communities with a strong arts presence contribute to thriving, livelier neighbourhoods and attracts both new residents and tourists (Alberta Arts Foundation, 2012). Based on the NRPA Benchmark of 1:11,000 for theatre indoor performance space, the Municipality will be adequately serviced in its provision of theatres.

Not having actual numbers of theatre goers, we used a 20% participation rate as per the *Recreation Master Plan (2022-2032)* community survey results and extrapolated it to projected populations. The outcome shows 128 extra participants for the 2041 Impact Case, and 156 extra participants for the 2046 (see Table below). Given a capacity of 236 people in the auditorium, an increase in number of 128 and 156 is expected to have some effect, but given the number of variables, including frequency of attendance, theatre programming, and other arts and cultural activities available at the Hall, it is difficult to affirm what this may be.

Projected Participation in Theatre: Base Case and Impact Case

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	N/A	7420	7620	8400	9040	8760	9540
Participation in Theatre (20%)	1:11,000	1250	N/A	1484	1524	1680	1808	1752	1908
Projected Increase due to Impact Case (Impact minus Base)		N/A		N/A	40	N/A	128	N/A	156

Effects & Strategies

The Teeswater Town Hall Theatre supports arts and cultural activities essential to a thriving community and attachment to place. It is difficult to say if the facility will remain adequate due to the impact of increased participation and if future expansion will be required.

Monitor the impact of increased participation expected by 2041, and if the theatre cannot meet demand, explore partnership and / or new development options.

4.5. Outdoor Swimming Pools

The Municipality has two outdoor swimming pools, the Mildmay Carrick Swimming Pool, which opened in 1991, and the Teeswater-Culross Swimming Pool, which opened in 1993. The Mildmay-Carrick Swimming Pool can accommodate a maximum of 136 swimmers in the pool at one time, while Teeswater-Culross Swimming Pool can accommodate a maximum of 100. Engagement with knowledge holders did not identify any issues with existing capacity.

NRPA Benchmarking

Based on the NRPA benchmarking metric of one pool per 8,951 residents, South Bruce is and will continue to be overserviced in its provision of outdoor swimming pools up to 2046.

Existing and Projected Level of Service Compared to NRPA Benchmark

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	N/A	7420	7620	8400	9040	8760	9540
Facilities per population	1:8,591	1:3125 ↑	N/A	1:3710 ↑	1:3810 ↑	1:4200 ↑	1:4520 ↑	1:4380 ↑	1:4770 ↑

↑ - Municipality is overserviced in the provision of this facility relative to NRPA Benchmark.

Assessment

The following table shows the estimated effect of population growth on the demand for aquatic programs. The information was generated by taking an average of the number of participants in 2018-2019 and then converting it to a percentage of the population participating in aquatic programs (ex. 6250 (population) ÷ 358 (no. public swim participants) = 0.06 or 6%). This percentage was then applied to the projected populations for the Base Case and Impact Case to arrive at the future number of participants.

Projected Participation in Aquatic Programs: Base Case and Impact Case

Year			2031		2041		2046	
Participation in Aquatic Programs	Participation Rate (Average)	Percentage Population	Base	Impact	Base	Impact	Base	Impact
Population			7420	7620	8400	9040	8760	9540
Teeswater + Mildmay								
Lessons	358	6%	424	436	480	480	501	546
Public Swim	3066	49%	3640	3738	4121	4435	4297	4680
Swim Camps	69	1.1%	82	84	93	100	97	105
Private/Semiprivate Lessons	94	1.5%	112	115	126	136	132	143
Certification Courses	5	0.1%	6	6	7	7	7	8
Swim Team	10	0.2%	12	12	13	14	14	15

Capacity of each program to absorb the growth in participants is discussed below, by program.

Swim Lessons

There are currently 104 swim lesson slots available (46 in Mildmay and 58 in Teeswater) that each take 5 students, which limits participants to a maximum of 520. From the table we can see that this number is only exceeded in an Impact scenario, sometime between 2041 and 2046. By that time 26 more participants will have to be accommodated, which, conservatively, means six more lessons. Assuming 0.5 hours this means three more hours of pool time will be required.

Swim Camps

The Municipality currently offers a total of five swim camps. Each is assumed to accommodate 15 participants, making for a maximum of 75 participants overall. Participation is projected to increase from 69 participants in 2021 to either 97 participants (Base) or 105 participants (Impact) in 2046. To accommodate the extra, two swim camps would have to be added in the Base Case and three in the Impact Case.

Private Swim Lessons

Demand for private and semi-private swim lessons is projected to increase from the current 94 participants to 132 in a Base scenario and 143 in an Impact scenario in 2046. It is assumed that swim lessons of this type are relatively inflexible in terms of their ability to absorb new growth. Accordingly, all the extra growth of 38 people (Base) and 49 people (Impact) would have to be accommodated in new lessons. Assuming each

lesson takes two people maximum, this would result in a need from 19 (Base) to 25 (Impact) lessons. At half an hour each this would represent between 9.5 to 12.5 extra hours of pool time.

Certification Courses

Participation in certification programs is projected to grow from five to seven people in a Base Case, and eight people in an Impact Case. Currently two courses run during the month of August. Assuming each of these can accommodate 15 people maximum, there should be more than enough room to absorb the added population in both Base and Impact Cases in the existing schedule.

Swim Team

Currently a swim team of 10 participants meets twice a week at the Teeswater pool. The number of participants is projected to grow by 2046 to 14 in a Base Case and 15 in an Impact Case. Fifteen also happens to be the maximum number of participants on a team at any given time, so it would appear that the existing schedule can accommodate the growth in both Base and Impact Cases.

Public Swims

Currently there are 204 public swim slots offered throughout the season between the Mildmay-Carrick Pool and the Teeswater Culross Pool. Collectively, they can accommodate an estimated 3066 separate swims per season. By 2046 this number is projected to grow to 4297 swims in the Base Case and 4680 swims in an Impact Case.

According to the manger of recreation and facilities, the typical attendance at each swim is about 30 people. If this attendance grows proportionately to the overall population, we will estimate it between 42 (Base) to 45 (Impact) per public swim. This is still within capacity of the maximums allowed in each pool during a given public swim and does not represent a major burden on the current public swim schedule.

Effects

It is estimated that swim camps and lessons will be the pool programmes most likely to exert pressure on the existing facilities, in both Base and Impact scenarios. Namely, in a Base scenario two camps will be required in addition to 9.5 hours of private lessons, and in an Impact scenario, three more camps will be required, as well as 12.5 hours of private lessons and three hours of regular lessons.

Accommodating these extra activities in the existing facilities should be possible provided more intensive use of the existing schedule is permitted. For example, the last week of June as well as the first and last week of August appear to be available for added camp activity. Fitting in the extra lessons is also achievable provided that existing lesson slots in July can be extended by 0.5 hours. Overall, the feasibility of such a move will depend mainly on whether other programs are flexible enough to be moved around the schedule (such as the Adult & Tot/ Senior Swim), as well as whether programs can be scheduled back-to-back without a period of non-use in between.

Demand for swimming pool programs will increase due to population growth for both Base and Impact Case. This demand can however be met within the capacity of existing pool facilities. No additional facilities will be required.

Once pools reach the end of their useful life, the Municipality should consider replacing at least one of its pools with a modern outdoor facility that meets the needs of current residents and serves as an attraction to new residents. This pool should be in an existing park. Such a modern facility will cost approximately \$4M.

4.6. Trails

In total there are 32.5 km of trails in the Municipality of South Bruce. NWMO and the Municipality have committed to investigating the potential of developing a trail system, as required, through NWMO owned property, provided it is possible to implement such an amenity while adhering to Canadian Nuclear Safety Commission (CNSC) licensing requirements.

Existing Trails in South Bruce

Existing Trail Location	Existing Trail Length
Mildmay Rotary Park	2 km
Mildmay Carrick Managed Forest	3.5 km
Bruce County Rail Trail	20 km
Carrick Tract Trail	6.5 km
Mildmay Lions Wilderness Park	0.5 km
Total km of Trail	32.5 km

Utilization Inventory

The use of trails in the Municipality is not enumerated in a direct way. Understanding use patterns is largely a matter of consulting the community survey results in the *Recreation Master Plan (2022-2032)* and considering national participation trends. Generally, the survey indicated that walking on trails is a very popular recreational activity: 82% rated it as their top activity, and 49% assigned the development of new walking trails as a high priority (a further 26% assigned a medium priority). Knowledge holders consulted for the *Recreation Master Plan (2022-2032)* also expressed a need for more walking trails.

Yardstick Benchmarking

There is no NRPA metric for trails in terms of population per facility. The typical parks and recreation agency for populations less 20,000 has between 2.7 and 12.8 kilometre of trails.

In this instance we referred to the 2019 Yardstick Parks Benchmarking tool for Tracks and Trails and used the median provision length of 0.85 km per 1000 residents. (<https://www.ontarioparksassociation.ca/resources/Documents/Yardstick/YardstickTrackandTrails.pdf>). In total there are 32.5 km of trails in the Municipality. It would appear at first glance that the community will be overserved for trails for some time.

Existing and Projected Level of Service Compared to Yardstick Benchmark

South Bruce Existing Kilometers of Trails	Year Base/Impact Population	Yardstick Benchmark	2021		2031		2041		2046	
			Base	Impact	Base	Impact	Base	Impact	Base	Impact
			6250		7420	7620	8400	9040	8760	9540
32.5 km		0.85km:1,000	5.2km:1,000 ↑	N/A	04.4km:1,000 ↑	4.3km:1,000 ↑	3.9km:1000 ↑	3.6km:1,000 ↑	3.7km:100 0↑	0.5km:1,000 ↑

↑ - Municipality is overserved in the provision of this facility relative to NRPA Benchmark.

Access Considerations

Direct pedestrian access to trails from residential areas is an important aspect to their utility, especially considering the emphasis being given to active transportation in the *Plan the Bruce: Communities Discussion Paper (August 2021)*. It is therefore useful to re-assess the Yardstick metric in light of those portions of the trails which run directly through urban communities and exclude those lengths that lie outside of the boundaries. When these are taken out of the equation and only in-community trails totaled, the baseline results are much smaller.

Existing Trails in South Bruce: Urban Community Lengths Only

Existing Trail Location	Existing Trail Length
Mildmay Rotary Park	2 km
Bruce County Rail Trail (portion though Mildmay)	1.8 km
Mildmay Lions Wilderness Park	0.5 km
Total Km of Trail	4.3 km

Applying the 4.3km starting point shows that rather than being overserved, most of the municipality is actually underserved in the provision of trails.

Existing and Projected Level of Service Compared to Yardstick Benchmark (South Bruce Existing Kilometers of Trails 4.3km)

Year	Yardstick Benchmark	2021		2031		2041		2046	
Base/Impact		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250		7420	7620	8400	9040	8760	9540
	0.85km:1,000	0.7km:1,000 ↓	N/A	0.6km:1,000 ↓	0.6km:1,000 ↓	0.5km:1000 ↓	0.5km:1,000 ↓	0.5km:1000 ↓	0.4km:1,000 ↓

↓ - Municipality is underserved in the provision of this facility relative to NRPA Benchmark.

Effects

A low level of service for trails in South Bruce exists in both Base and Impact scenarios.

It is anticipated that the APM Project will result in 250 more dwellings being constructed in the municipality between 2031 and 2046 (metro economics, 2022). As a result, new trails as a component of an active transportation system should be developed as the communities build out. The trail system should be designed to link schools, parkland, neighbourhoods, and other recreational services and attractions. Such a system will encompass new and existing municipal lands. It is suggested as well that the Municipality and NWMO continue to investigate developing a nature-based walking trail through the Project site, especially along the Teeswater River. Nature-oriented programs offered through the Centre of Expertise could also be explored.

Strategies

- Continue to explore with NWMO the opportunity to develop a walking trail through the Project site along the Teeswater River.
- As recommended in the *Recreation Master Plan (2022-2032)*, seek funding from the Canada Active Transportation Fund to complete a detailed concept plan for a trail/active transportation system.
- Seek funding from the NWMO and other partners to construct the trail system.

Timelines

- Complete a Trail Concept Plan in 2022-2023 and phase development of the trail system as the community builds out.

Estimated Cost

- Trail Concept Plan: \$50,000
- Development costs are estimated at 3.50 sq. ft. for compacted granular surfaces. Costs will be confirmed in the Trail Concept Plan.

4.7. Parks

Currently there are 84.5 acres of parkland serviced by the Municipality, divided amongst eight parks: two parks in Formosa, two in Teeswater, and four in Mildmay.

Existing Parks in South Bruce

Park Facility	Acreage	Total By Community
Formosa Lions Park	6.5	11.1 ac in Formosa
Formosa Recreation Centre and Ballpark	4.6	
Mildmay Arena Park	24.6	41.1 in Mildmay
Mildmay Carnegie Park	7.2	
Mildmay Rotary Park	8.9	
Mildmay Water Tower Park	0.4	
Teeswater Arena and Ballpark	28.9	32.3 in Teeswater
Teeswater Lions Park and Pool Site	3.4	
Total	84.5	

Utilization Inventory

No enumeration of park users is available as this type of data is not collected. The community survey indicated that 67% of respondents visit parks regularly.

NRPA Benchmarking

The NRPA benchmark for parkland is 12.4 acres per 1000 people. Based on this, the Municipality will be underserved by 2031 into 2046. See table below.

Existing and Projected Level of Service Compared to NRPA Benchmark

Existing Acres of Parkland	Year	NRPA Benchmark	2021	2031		2041		2046	
	Base/Impact Case		Base	Base	Impact	Base	Impact	Base	Impact
	Population		6250	7420	7620	8400	9040	8760	9540
84.5 ac		12.4 ac: 1,000	13.5 ac: 1,000 ↑	11.4 ac: 1,000 ↓	11.1 ac: 1,000 ↓	10.1 ac: 1,000 ↓	9.35 ac: 1000 ↓	9.64 ac: 1,000 ↓	8.86 ac: 1,000 ↓
Required Parkland due to Impact Case (Base Case minus Impact Case)									
		N/A	N/A	N/A	2.5 ac	N/A	7.9 ac	N/A	9.7 ac

↑ - Municipality is overserved in the provision of this facility relative to NRPA Benchmark.

↓ - Municipality is underserved in the provision of this facility relative to NRPA Benchmark.

Based on the NRPA Metric, the amount of additional parkland South Bruce will require due to Impact Case population growth (projected by the following calculation - Population Change*12.4 ac/1000).

- 2031 2.5 acres of additional parkland due to Impact Case
- 2041 7.9 acres of additional parkland due to Impact Case
- 2046 9.7 acres of additional parkland due to Impact Case

Access Considerations and Effects

The location of parks within the urban settlement areas is another factor to consider in park planning. Ideally Park developments should be within a 5-minute -10-minute walk (400m- 800m and uninterrupted by a major roadway) for all residents. At a minimum, a small neighbourhood park (1-2 acres) that would at a minimum have seating and a playground should be provided. Currently parks in all three communities broadly fulfil these criteria, particularly Mildmay. Notably Teeswater has a large portion of its developable land outside of the 400m radius, and a very small portion outside of 800m. So, there is some justification for introducing a small park to service the western residential lands south of Bruce Road 6 as it builds out for new residents.

Generally, the findings from the NRPA benchmarking process and examining the distribution of parkland within communities suggest that in Teeswater, the Municipality should consider favouring open space dedications over cash-in-lieu payments as part of new subdivision design. Mildmay is currently well-serviced in terms of distribution and access but may require more parkland depending on the location of the projected 250 additional dwellings anticipated (Impact Case 2021-2046). However, rather than building new parkland in Mildmay, improvements to school grounds should first be evaluated to determine if school grounds can meet the need. Although the NRPA benchmark need not be adhered to strictly, a slow increase in the amount of parkland as the Municipality builds out would ensure adequate access to parkland amenities well into the future. Parks are an important recreation amenity to residents; they improve the quality of life in communities and have many social, environmental, and economic benefits. A recent NRPA study, *2021 Engagement with Parks Report* found that proximity to great parks and quality recreation opportunities plays a significant role in determining where people choose to live.

Strategies:

- Determine location of new housing developments due to the APM Project.
- Evaluate the need for additional parkland based on the criteria that all residents be within a walkable distance of 400-800m.
- Acquire new parkland as needed and engage the community to confirm the most appropriate amenities based on trends, demographics, and community needs.
- If parkland is not required due to development patterns or location, use cash-in-lieu to improve and modernize existing park amenities. As per the *Recreation Master Plan (2022-2032)*, redevelopment plans for existing parks should be completed between 2022-2027.

Timelines

Development of additional parkland is expected to coincide with new housing developments.

Estimated Cost

Park development costs are estimated and will be impacted by the amenities included. Development charges can fund new facilities: dedication of parkland is required for all new residential and commercial developments or cash- in- lieu can be used to develop or acquire parkland.

- | | | |
|--------|----------------------------------|---------|
| • 2031 | 2.5 acres of additional parkland | \$1.5M |
| • 2041 | 7.9 acres of additional parkland | \$4.8.M |
| • 2046 | 9.4 acres of additional parkland | \$5.7M |

4.8. Playgrounds

There are a total of eight playgrounds in the Municipality, all located within Parks. Utilization data was not available as this type of information is not collected.

NRPA Benchmarking

The NRPA benchmark metric for playgrounds is 1: 2131. Based on this metric, South Bruce is currently overserviced in its provision of playgrounds and will continue to be until 2046.

Existing and Projected Level of Service Compared to NRPA Benchmark

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact Case		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	N/A	7420	7620	8400	9040	8760	9540
Facilities per Population	1:2131	1:781↑		1:928↑	1:953↑	1:1050↑	1:1130↑	1:1095↑	1:1193↑

↑ - Municipality is overserviced in the provision of this facility relative to NRPA Benchmark.

Access Considerations and Effects

Even when walking radii are taken into account, all communities seem to fall within the maximum 10-minute walk to a playground. In Mildmay, assuming that the Dent subdivision develops a playground, then most of Mildmay will be within a 5-minute walk of one. In this regard it is generally advised that new playgrounds are not needed, and that connections to existing facilities be strengthened with new pedestrian connections and upgrades to existing playground facilities that are described in the *Recreation Master Plan (2022-2032)*.

As previously noted, portions of southern Teeswater have areas of residential land that will develop just outside of the maximum radii, so there is a case for one small new playground, if use of the Sacred Heart School playground cannot fulfil this function.

Strategies

- Ensure new residential developments have adequate access to playgrounds (within 400-800 metres walking distance); strengthen access with new pedestrian connections if necessary.
- Develop one new playground in new residential development in southern Teeswater, if required.
- Upgrade existing playground facilities as described in the *Recreation Master Plan (2022-2032)*.

Timelines

- Timelines for playground development will be determined by housing development and patterns and may coincide with the development of parkland.

Estimated Cost

- \$175,000 (includes one playground structure, installation, and landscaping).



4.9. Ball Diamonds

There are currently five ball diamonds in South Bruce, enumerated in the below table.

South Bruce Current Level of Surface – Ball Diamonds

Facility Location	Quantity
Formosa Ball Park	1
Teeswater-Culross Fairgrounds	2
Carnegie Park, Mildmay	1
Mildmay-Carrick Recreation Centre	1
Total No. of Ball Diamonds	5

Utilization of Ball Diamonds

There are approximately 785 softball/baseball players in the Municipality of South Bruce: 140 minor, 255 adult men; and 390 adult women players. There are approximately 2,844 prime-time hours available in all diamonds in South Bruce. Ball diamonds in South Bruce are underutilized – in 2019 they were booked at less than 15% of capacity. In 2019 (pre-COVID) there were 300 hours booked with the most hours booked at the Mildmay Diamonds: hours booked were as follows:

- Mildmay Diamonds: 192 hours
- Teeswater Diamonds: 41.5 hours
- Formosa Diamonds: 66.5 hours

The table below applies the present-day softball/baseball participation rate of 13% of the population ($785 \div 6250$) to estimate the future number of participants for both Base and Impact Case. The number of ball diamonds that would be required to accommodate one game per week for every team is then calculated assuming 15 people a team, and assuming 36 available hours per week are used per diamond. We did not account for practices, nor did we account for non-resident teams competing with local teams.

Projected Number of Ball Diamonds Required: Base Case and Impact Case

Activity	Present-day 6250	2031		2041		2046	
		Base	Impact	Base	Impact	Base	Impact
		7420	7620	8400	9040	8760	9540
No. Baseball /Softball Participants	785	965	991	1092	1175	1139	1240
No. of Teams	52	64	66	73	78	76	83
No. of Games Required /week	26	32	33	36	39	38	41
No. Hours required /week	39	48	50	55	59	57	62
No. of Diamonds Required/week	1.1	1.3	1.4	1.5	1.6	1.6	1.7

The table above shows that even assuming diamonds are booked to capacity, the Municipality can meet the demand that would result from both Base Case and Impact Case. While it shows that only two diamonds would be needed to meet present day and future demand, if two games per team are played per week, or if an equal amount of practice time is booked, then four diamonds would be adequate to meet the need. This leaves the Municipality over-serviced by one diamond.

NRPA Benchmarking

As the table below also shows, based on NRPA benchmarks, MSB is over-serviced in its provision of ball diamonds (this metric is for adult softball diamonds, the same type of diamonds in MSB).

Existing and Projected Level of Service Compared to NRPA Benchmark

No. Facilities	Benchmarking Metric	2021		2031		2041		2046	
		Base	Impact	Base	Impact	Base	Impact	Base	Impact
		6250	N/A	7420	7620	8400	9040	8760	9540
5	NRPA (1:5,663)	1:1250 ↑	N/A	1:1484 ↑	1:1524 ↑	1:1680 ↑	1:1808 ↑	1:1752 ↑	1:1908 ↑

↑ = Municipality is overserviced in the provision of this facility relative to NRPA Benchmarking Metrics.

Effects

This assessment shows that for both Base Case and Impact Case, the Municipality, with its existing facilities, can meet new demand for ball diamonds as the population grows. Assuming participation rates stay the same, no new facilities will be required. There is a chance that rates will increase in response to Baseball Canada's recent initiatives to promote the sport, however given current scheduling data it is unlikely this alone would lead to significant pressure on the use of ball diamonds.

Strategies

The oversupply of ball diamonds in the municipality was noted in the *Recreation Master Plan (2022-2032)*, which recommended the following points for implementation:

- Work with its partners to grow the sport of baseball and softball, to make existing facilities sustainable.
- Decommission surplus diamonds if participation rates continue to decline, and upgrade remaining diamonds in the system to meet user needs.



4.10. Outdoor Rinks

There is one outdoor rink in MSB, at the Formosa Recreation Centre and Ball Park. The Formosa outdoor rink will be refurbished in 2022. No utilization data was available for the outdoor rink.

NRPA Benchmarking

Based on NRPA Metrics, one Outdoor Rink should service South Bruce until 2046, even in an Impact scenario.

Existing and Projected Level of Service Compared to NRPA Benchmark

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact Case		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	N/A	7420	7620	8400	9040	8760	9540
Facilities per Population	1:10,000	1:6,250 ↑	N/A	1:7,420 ↑	1:7,620 ↑	1:8400 ↑	1:9,040 ↑	1:8760 ↑	1:9,540 ↑

↑ - Municipality is overserved in the provision of this facility relative to NRPA Benchmark.

Access Considerations and Effects

As noted in the *Recreation Master Plan (2022-2032)*, outdoor rinks support unscheduled youth activity, and are often accessed at the neighbourhood level. For this reason, it is suggested that the NRPA benchmark, despite indicating adequate service, should not discourage the installation of more outdoor rinks, specifically in the communities that do not currently have them – Mildmay and Teeswater. It is further proposed that these new rinks are incorporated into multiuse courts to support a broader range of activity throughout the year. These facilities should be incorporated into the Formosa Outdoor Rink, the Teeswater Arena and Ball Park, and the Mildmay Arena Park (to be incorporated into the recommended redevelopment master plan for these parks). While the APM Project is not expected to place excess demand on these facilities, outdoor rinks and multi-use-courts are an attractive recreation amenity for families seeking to relocate.

Timelines and Estimated Costs

- 2021-2025 \$65,000 – \$150,000 for combination Multi-Use Court/Outdoor Rink Kit plus seating and lights.

4.11. Tennis Courts

The Municipality has two tennis courts located in Carnegie Park, Mildmay; both courts were upgraded in 2022. No utilization data was available. Only 4% of community survey respondents indicated that they play tennis, although 14% indicated they would like to play tennis.

NRPA Benchmarking

Benchmarking with the NRPA metric of 1:2,748 tennis courts per population shows that MSB is underserved in its provision of tennis courts and will continue to be into 2046.

Existing and Projected Level of Service Compared to NRPA Benchmark

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact Case		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	N/A	7420	7620	8400	9040	8760	9540
Facilities per Population	1:2,748	1:3125 ↓	N/A	1:3710 ↓	1:3810 ↓	1:4200 ↓	1:4520 ↓	1:4380 ↓	1:4770 ↓

↓ - Municipality is underserved in the provision of this facility relative to NRPA Benchmark.

The following table compares the number of tennis courts required to accommodate anticipated growth for both Base Case and Impact Case, based on benchmarking with the NRPA. Based on this comparison, MSB will need to add a third tennis court in 2031 due to the Base Case population and will not need additional tennis courts thereafter.

Projected Number of Tennis Courts Required Based on NRPA Benchmark Base Case Versus Impact Case

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact Case		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	N/A	7420	7620	8400	9040	8760	9540
	1:2748	2.3	N/A	2.7	2.8	3.1	3.3	3.2	3.5

Conclusions

In the case of Tennis Courts, it is recommended that the NRPA benchmark be followed, and more courts added in 2031. Low participation rates reported in the community survey may be indicative of the lack of supply and not lack of interest; moreover, if newcomers to the Municipality are closer to the national average of participation (18%) then we can expect the demand for tennis facilities to go up. Further trends that will likely contribute to increased need for courts:

- Tennis Canada is currently rolling out strategies to build up grassroots participation, including a robust plan for growing tennis on municipal tennis courts (https://www.tenniscanada.com/wp-content/uploads/2021/12/Rebuilding-a-tennis-nation_EN.pdf).
- The relatively new sport of Pickleball has grown rapidly in popularity. In South Bruce, the game is currently played indoors, but this activity can be played outside on modified tennis courts.

Strategies

- Add one additional tennis court in 2031.
- Monitor participation between 2031-2041 and build additional courts before 2041 if needed.

Timelines

- Year 2031

Estimated Costs

- \$67,500



4.12. Soccer Pitches

South Bruce currently has three soccer pitches: two in Mildmay and one in Teeswater. Only one pitch is owned by the Municipality; the other two are located on school grounds and supported by shared use agreements.

Utilization Inventory

The main users of soccer fields as a structured activity are youth from the ages of 4-19. It is known that there are currently 100 registered minor players in Mildmay and 50 in Teeswater between the ages of 4-10 years. However no other information was available regarding players older (older children play in other municipalities due to small numbers). Working estimates for future youth playing soccer have therefore been made assuming that the current proportion of youth remain constant at 15% into the future, and that they participate in soccer at a rate similar to the national rate (28%). Projections are shown in the table below.

Projected Participation in Soccer: Base Case and Impact Case

Benchmarking Metric Source	Year	2021		2031		2041		2046	
	Base/Impact Case	Base	Impact	Base	Impact	Base	Impact	Base	Impact
	Population	6250	N/A	7420	7620	8400	9040	8760	9540
National Participation Rate (28%) 5–17-year-olds		262	N/A	311	320	352	380	370	400

(Note that the percentage of children aged 5-17 years was estimated from Manifold Data Mining 2020. Participation rate was obtained from the Canadian Fitness and Lifestyle Research Institute (2013).)

NRPA Benchmarking

Comparison of Number of Soccer Pitches in MSB with NRPA Benchmarking Metrics.

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact Case		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population		6250	N/A	7420	7620	8400	9040	8760	9540
Facilities per Population in South Bruce	1:3433	1:2083	N/A	1:2473 ↑	1:2540 ↑	1:2800 ↑	1:3013 ↑	1:2920 ↑	1:3180 ↑

↑ = Municipality is overserved in the provision of this facility relative to NRPA Benchmarking Metrics.

The table above shows that, based on the NRPA Metric, additional youth soccer pitches will not be required up to 2046. Given that soccer participation is much lower in South Bruce than national participation rate, we project no new soccer fields will be required in the municipality up to 2046. However, if the soccer program grows as discussed in the *Recreation Master (2022-2032)* additional facilities will be required if challenges with access due to scheduling pressures occur.

4.13. Teeswater River Access

Currently there are no dedicated launch sites in the Municipality for recreational watercraft on the Teeswater River. Residents engaging in this activity launch their own craft at road lay-bys, usually near bridge and culvert abutments at river crossings. No utilization data were available for this activity nor is there an NRPA benchmark, although 36% of respondents to the community survey did indicate that they participated in paddlesports such as canoeing, kayaking, and paddleboarding. A further 16% said they would like to participate. It seems likely that absolute number of participants will increase as population grows.

In accordance with the Guiding Principles for the Site Selection process, the NWMO will endeavour to maintain public access to the river. Currently the NWMO is planning to investigate the possibility of including a canoe and launch site in the design and operation of the Project. It is recommended that the Municipality partner with the NWMO in programming the Project site. Programming should include an emphasis on outdoor and /or nature-oriented activities, eco-adventure experiences, science education, nature tours, and paddle sports instruction.

Strategies

- Municipality, NWMO, and other partners develop a range of recreation programs that enhance opportunities for residents.

Timelines

- 2028-2042 for infrastructure development

Estimated Cost

- Costs included in NWMO site design and Centre of Expertise.
- Programming costs will vary.

4.14. Multi-Use Courts

South Bruce currently does not have multi-courts. Multi-use courts, also called multi-sport courts, offer a variety of activities such as basketball, ball hockey, volleyball, Pickleball, tennis and dodgeball, etc. These courts serve a large demographic including youth, adults, and families. The *Recreation Master Plan (2022-2032)* recommended that the Municipality develop one multi-use court in Mildmay and one in Teeswater that can be converted to small outdoor rinks in the winter. It also recommended that the pending refurbishment of the outdoor rink in Formosa include multi-use court elements.

NRPA Benchmarking

Number of Multi-Use Courts Required Based on NRPA Benchmark Base Case Versus Impact Case

Year	NRPA Benchmark	2021		2031		2041		2046	
Base/Impact Case		Base	Impact	Base	Impact	Base	Impact	Base	Impact
Population	1:6200	6250	N/A	7420	7620	8400	9040	8760	9540
Number of facilities required		1.0	N/A	1.2	1.2	1.4	1.5	1.4	1.5

Conclusion

Given the lack of this facility currently and its ability of the multi-use courts to accommodate a variety of uses – including those oriented to the immediate neighbourhoods in which they are situated -- it is recommended that multi-use courts be added according to the NRPA metric. By 2041 for both Base and Impact Case scenarios, two courts would be reasonable. However, as per the *Recreation Master Plan (2022-2032)*, to ensure equitable access, each community within the Municipality should have a multi-use court.

Strategies

- Add one multi-court in Mildmay and another in Teeswater and include a multi-use court in the refurbishment of Formosa Outdoor Rink.

Timelines and Estimated Costs

- Year 2021-2025 See Section 4.10 Outdoor Rinks

4.15. Splash Pads

The Municipality currently does not yet have a splash pad, and as such there is no utilization data. Nor does the NRPA provide benchmarks for splash pad use by population. In this case, any determination of the need for a splash pad will be closely tied to the results of the community survey completed as part of the *Recreation Master Plan (2022-2032)*. Splash pads are a leading trend in recreation amenities.

Generally, splash pads were regarded positively in the *Plan*, with 38% of respondents giving a new splash pad a ‘high’ priority and a further 25% rating it as a ‘medium’ priority for development. Use of a splash pad was the most-frequently selected activity in which respondents would “like to participate”. As per the *Recreation Master Plan (2022-2032)*, it is recommended that the Municipality proceed with developing one splash pad in the short term that features qualities to serve families from all over the municipality, and then following with splash pads in the two other communities. Ideally splash pads would be in parks and placed close to existing soccer fields so youth can cool off after a game. Washrooms and changerooms need to be part of the facility.

Strategies

- Incorporate a splash pad into the redevelopment master plans for Mildmay Arena Park, Formosa Recreation Centre, and Teeswater Arena and Ball Park.
- Phase installation of splash pads in South Bruce beginning with one signature facility and following with facilities in the other communities.

Timelines

- 2022-2025

Estimated Cost

- \$175,000 per splash pad

4.16. Pumptracks

The *Recreation Master Plan (2022-2032)* suggested including pump tracks as a component of newly refreshed parks in South Bruce. Pump tracks are among the newest and most exciting recreation amenities and continue to trend upwards. Facilities serve as both a playground and a skills training centre: cyclists practice swing, balance, and speed before moving onto more challenges through increasing speed and skill. Pumptracks can be designed to accommodate scooters, skateboards, and wheelchairs, and thereby provide a fun recreation opportunity for a broad section of the community including parents, small children, and adolescents.

There are no NRPA benchmarks for this amenity.

Strategies

- Develop a pumptrack in each of the three towns of South Bruce.

Timelines

- All pumptracks should be installed in South Bruce Parks by 2031.

Estimated Cost

- A hard surface pump track will cost \$150,000 each, for a total of \$450,000.



5 Implementation Plan

5. IMPLEMENTATION PLAN

The following table provides a summary of the proposed Strategies, Timelines and Costs for each facility assessed in this Study. It also identifies if proposed strategies are the result of population growth, existing conditions, or other community benefits, due to Base Case and Impact Case.

Study Section Number	Facility	Proposed Strategies	Base Case vs Impact Case	Timeline	Class D Costs	Comments,
4.1	Ice Arenas	<ul style="list-style-type: none"> Develop a policy that prioritizes resident use of the arenas. Develop formal partnerships with neighbouring municipalities that have surplus ice time. Review scheduling to look for efficiencies. 	Base Case Impact Case	2023	N/A	N/A
4.2	Community Centres	<ul style="list-style-type: none"> Undertake an Architectural Assessment to enhance program spaces that will serve an essential role in attracting, welcoming and integrating new residents into the community, while meeting recreation needs of current residents. Seek funding from partners including NWMO to undertake renovations. 	Base Case Impact Case	Architectural Assessment: 2022-2024 Funding for Renovations: 2025	Architectural Assessment: \$34,500	Capital Costs TBD
4.3	Public Libraries	<ul style="list-style-type: none"> In partnership with NWMO and Bruce County Public Libraries, explore the opportunity to build a new Mildmay Library in proximity to or connected to the Mildmay- Carrick Community Centre. 	Base Case Impact Case	Discussions: 2022-2023 Construction Completion: 2031-2041	\$2,000,000	5000 sq. ft @ \$400/ sq. ft.
4.4	Theatre	<ul style="list-style-type: none"> Monitor the impact of increased participation expected by 2041, and if the theatre cannot meet demand, 	Impact Case	N/A	N/A	Greatest effect on participation due to Impact Case will be in 2041)

Study Section Number	Facility	Proposed Strategies	Base Case vs Impact Case	Timeline	Class D Costs	Comments,
		explore partnership and / or new development options.				
4.5	Outdoor Swimming Pools	<ul style="list-style-type: none"> Provide more intensive use of the existing schedule to accommodate extra demand for swim camps and lessons. 	Base Case Impact Case	N/A	N/A	
4.6	Trails	<ul style="list-style-type: none"> Continue to explore with NWMO the opportunity to develop a walking trail through the Project site along the Teeswater River. As recommended in the <i>Recreation Master Plan (2022-2032)</i>, seek funding from the Canada Active Transportation Fund to complete a detailed concept plan for a trail/active transportation system. Seek funding from the NWMO and other partners to construct the trail system. 	Base Case Impact Case	2022-2023	\$50,000 for Trail Concept Plan	Funding available through Active Transportation Fund, Infrastructures Canada
		Trail Development	Base Case Impact Case	Construction to be phased as development occurs	Development Cost estimated @ \$3.50 sq. ft.	
4.7	Parks	<ul style="list-style-type: none"> Determine location of new housing developments due to the APM Project. Evaluate the need for additional parkland based on the criteria that all residents be within a walkable distance of 400-800m. Acquire new parkland as needed and engage the community to confirm the most appropriate amenities based on trends, demographics, and community needs. 	Base Case Impact Case	<p>New parkland to coincide with residential development 2031-2046.</p> <p>Redevelopment plans for existing parks should be completed between 2022-2027.</p>	Design + Development (3 parks) \$12M	While new parkland will be needed for both the Base Case and Impact Case, only Impact Case effects are included here.

Study Section Number	Facility	Proposed Strategies	Base Case vs Impact Case	Timeline	Class D Costs	Comments,
		<ul style="list-style-type: none"> If parkland is not required due to development patterns or location, use cash-in-lieu to improve and modernize existing park amenities. 				
4.8	Playgrounds	<ul style="list-style-type: none"> Ensure new residential developments have adequate access to playgrounds; (strengthen access with new pedestrian connections if necessary. Develop one new playground in new residential development in southern Teeswater, if required. Upgrade existing playground facilities as described in the <i>Recreation Master Plan (2022-2032)</i>. 	Base Case Impact Case	TBD based on housing developments	Design + Development (1 playground) \$175,000	Cost to upgrade playgrounds facilities TBD
4.9	Ball Diamonds	<ul style="list-style-type: none"> Work with partners to grow the sport of baseball and softball, to make existing facilities sustainable. Decommission surplus diamonds if participation rates continue to decline, and upgrade remaining diamonds in the system to meet user needs. 	N/A	N/A	N/A	
4.10	Outdoor Rinks	<ul style="list-style-type: none"> As recommended in the <i>Recreation Master Plan (2022-2032)</i> develop combination outdoor rink / multiuse courts in Teeswater and Mildmay and Formosa. 	Base Case	2022-2025	\$65,000-\$150,000 for combination Outdoor Rink / Multi-Use Court	Outdoor rink in Formosa will be upgraded in 2022. A multi-use court should be incorporated. Outdoor rinks and multi-use-courts (see below) are an attractive recreation amenity

Study Section Number	Facility	Proposed Strategies	Base Case vs Impact Case	Timeline	Class D Costs	Comments,
						for families seeking to relocate.
4.11	Tennis Courts	<ul style="list-style-type: none"> Add one additional tennis court in 2041. Monitor participation between 2031-2031 and build additional courts before 2041 if needed. 	Base Case Impact Case	N/A	\$67,500	
4.12	Soccer Pitches	N/A	N/A	N/A	N/A	
4.13	Teeswater River Access through NWMO Site	<ul style="list-style-type: none"> NWMO to provide Teeswater River access through the Project site Municipality, NWMO and other partners develop a range of recreation programs that enhance opportunities for residents. 		Site Development + Programming 2028-2042	N/A	Costs included in NWMO site design and Centre of Expertise
4.14	Multi-Use Courts	See Outdoor Rinks				
4.15	Splash Pads	<ul style="list-style-type: none"> Incorporate a splash pad into the redevelopment master plans for Mildmay Arena Park, Formosa Recreation Centre and Teeswater Arena and Ball Park. Phase installation of splash pads in South Bruce beginning with one signature facility and following with facilities in the other communities. 	Base Case	2022-2025	\$525,000	Benefits and provides amenity that attracts new residents
4.16	Pumptracks	<ul style="list-style-type: none"> Develop a pumptrack in each of the three towns of South Bruce 	Base Case	2022-2031	\$450,000	Benefits and provides amenity that attracts new residents



6 Guiding Principles

6. GUIDING PRINCIPLES

As per Section 1.8, the Effects on Recreational Resources Study is relevant to the following MSB Guiding Principles (2020) for NWMO’s Site Selection Process:

- #6: “The NWMO will minimize the footprint of the repository’s surface facilities to the extent it is possible to do so and ensure that public access to the Teeswater River is maintained, subject to meeting regulatory requirements for the repository.”
- #10: “The NWMO will identify the potential for any positive and negative socio-economic impacts of the Project on South Bruce and surrounding communities and what community benefits it will contribute to mitigate any potential risks.”
- #29: “The NWMO will prepare an infrastructure strategy that addresses any municipal infrastructure requirements for the Project and will commit to providing appropriate funding for any required upgrades to municipal infrastructure required to host the Project in South Bruce.”
- #32: “The NWMO, in consultation with the Municipality and other local and regional partners, will prepare a strategy to ensure there are sufficient community services and amenities, including health, child-care, educational and recreational facilities, to accommodate the expected population growth associated with hosting the Project in South Bruce.”

Study Section Number	Facility	Relevant Guiding Principles	How the Guiding Principle is Informed
4.1	Ice Arenas	Guiding Principle # 10	<ul style="list-style-type: none"> • Non-resident users will be displaced as demand for ice-time increases. The proposed strategy options to develop formal partnerships with neighbouring municipalities that have surplus ice time and to implement scheduling efficiencies will mitigate this effect.
4.2	Community Centres	Guiding Principle # 10 Guiding Principle #29	<ul style="list-style-type: none"> • NWMO can partner with the Municipality in the enhancement of program spaces, including renovations.
4.3	Public Libraries	Guiding Principle # 10 Guiding Principle #29	<ul style="list-style-type: none"> • A new Mildmay Library, in partnership with NWMO and Bruce County Public Libraries is recommended.
4.4	Theatre	Guiding Principle # 10 Guiding Principle #29	<ul style="list-style-type: none"> • If the theatre cannot meet the increase in future demand, NWMO can be a partner in the development of a new theatre if it becomes necessary.

Study Section Number	Facility	Relevant Guiding Principles	How the Guiding Principle is Informed
4.5	Outdoor Swimming Pools	Guiding Principle #29	<ul style="list-style-type: none"> NWMO can become a funding partner when a modern facility eventually is required to replace ageing facilities.
4.6	Trails	Guiding Principle #6 Guiding Principle #29	<ul style="list-style-type: none"> The NWMO will, if regulations allow, develop a walking trail through the Project site along the Teeswater River. NWMO can be a funding partner in the development of a trail system.
4.7	Parks	Guiding Principle #29	<ul style="list-style-type: none"> NWMO can be a funding partner for amenities in new and existing parks.
4.8	Playgrounds	Guiding Principle # 10 Guiding Principle #29	<ul style="list-style-type: none"> New residential developments will require at least one new playground, depending on location of housing developments, and adequate access to all playgrounds. Additionally, upgrades to existing playground facilities are recommended.
4.9	Ball Diamonds	N/A	<ul style="list-style-type: none"> N/A
4.10	Outdoor Rinks	Guiding Principle #29	<ul style="list-style-type: none"> New combination outdoor rink / multiuse courts in Teeswater and Mildmay and a redeveloped rink with multi-use court in Formosa are recommended.
4.11	Tennis Courts	Guiding Principle #29	<ul style="list-style-type: none"> One additional tennis court in 2031 will be required to meet increased demand.
4.12	Soccer Pitches	N/A	<ul style="list-style-type: none"> N/A
4.13	Teeswater River Access through NWMO Site	Guiding Principle #6	<ul style="list-style-type: none"> NWMO will provide Teeswater River access through the Project site, if regulations allow. Municipality, NWMO and other partners develop a range of recreation programs that enhance opportunities for residents.
4.14	Multi-Use Courts	See Outdoor Rinks	
4.15	Splash Pads	Guiding Principle #29	<ul style="list-style-type: none"> New splash pad for Mildmay Arena Park, Formosa Recreation Centre and Teeswater Arena and Ball Park are recommended. NWMO could be a funding partner.
4.16	Pumptracks	Guiding Principle #29	<ul style="list-style-type: none"> NWMO could be a funding partner in the development of pumptracks in each of the three towns of South Bruce

7 Appendices

7. APPENDICES

7.1. Appendix A: Recommended Programs

LIST OF RECOMMENDED PROGRAMS

Recommended Programs

Children and Teen Programs

- Outdoor Recreation
 - Kayaking, canoeing, and paddleboarding
 - Camps that provide youth instruction, training, and practice in trending watersports
 - Rentals and guided tours that create an opportunity to explore nature and socialize
 - Snowshoeing
- Clubs that are beginner friendly and promote exploration and socialization.
 - Fitness
- Outdoor fitness equipment in the park, yoga in the park, and hiking groups.
 - Outdoor Rink
- During the winter there can be scheduled times for recreational skating and pick-up ice sport games.
- During the summer it can operate on a schedule with specific times for roller blading, pick-up hockey, etc.
 - Archery
- Beginner friendly classes where participants learn about archery basics.
- Horseback Riding
 - Guided horseback rides: Offers scenic and relaxing rides.
 - Horseback riding lessons: Students learn about horse care, horsemanship, and horseback riding techniques.
- Soccer
 - A conjoined Teeswater-Mildmay Soccer Association.
 - Summer camps where youth can improve technique and develop social skills.
- Indoor Recreation
 - Structured Indoor Classes: Yoga, dance, fitness, cycling and Zumba.
 - Unstructured Sports: Free drop-in pick-up games such as badminton, basketball, pickleball, and volleyball.
- Arts and Culture
 - Instructional clubs that teach youth about knitting, quilting, pottery, jewelry-making, painting, and photography.
 - Music and choir groups where students can practice vocal and instrumental skill.
 - Performance theatre and dance clubs where youth develop character

LIST OF RECOMMENDED PROGRAMS (CONTINUED)

Recommended Programs

Family Programs

- Splash Pad
 - Stay active and refreshed in the heat while interacting with others
 - Respect water conservation, low injury incidents, and accessible to everyone including the elderly and disabled
- Outdoor Recreation
 - Toboggan Hills
 - Snowshoeing and Cross-Country Skiing
 - Snowshoe and ski rentals suitable for all ages available to use on ungroomed walking trails during the winter
 - Outdoor Rink
 - Times reserved for family skates
 - Cycling
 - Planned events where participants take a family friendly, accessible and car-free route
 - Learn-to-ride events where youth can safely learn how to ride a bike
 - Family-friendly clubs
- Outdoor Family Nature Program
 - Includes activities such as scavenger hunts, birdfeeder making, hiking challenges, tree planting, and more
- Disc Golf
 - A low maintenance and family fun activity that promotes outdoor exercise
 - Disc rental available
- Picnics
 - Additional picnic facilities to provide families a place to eat while using parks and trails

LIST OF RECOMMENDED PROGRAMS (CONTINUED)

Recommended Programs

Adult Programs

- Recreation
 - Scheduled times for pick-up games of basketball, volleyball, pickleball, soccer, softball, tennis
 - Fitness classes: Yoga, boot camp, barre, indoor cycle, Tai Chi and Zumba
- Educational Workshops
 - Adults can learn new skills and interact with each other through various types of educational sessions
 - Snowshoeing and Cross-Country Skiing
 - Dance: Tap, Line, Ballroom, Salsa and Square
 - Computer and Technology: Learn about how to use your device, connect to Wifi, pair your device to your vehicle, practice using software applications and more
 - Arts and Crafts: Painting, Photography, Card-making, Drawing, Jewelry Making, Knitting, Crocheting, Quilting, etc.
 - Lifestyle: Gardening, Language, Mixology, and Cooking
- Entertainment
 - Scheduled nights including activities: Bingo, Trivia, Billiards, Card/Board Games, Tea Socials, and Darts
- Clubs
 - Virtual or in-person clubs that allow people to mingle and find new hobbies and interests
 - Popular clubs include Book Club, Crochet and Knitting Clubs, Walking Club, Cycling Club, and Running Club

Exercise Programs for Seniors

- Co-ed Recreation Drop-In Leagues
 - Pickleball
 - Table Tennis
 - Badminton
 - Tennis
- Clubs
 - Walking, Cycling
 - Indoor club at a walking track with extended hours
 - Cycling club
 - Indoor cycling or outdoor biking club
- Classes
 - Tai Chi, Pilates and Yoga
 - Chair Exercise
 - Zumba
 - Circuit Training
 - Resistance Band Workouts

LIST OF RECOMMENDED PROGRAMS (CONTINUED)

Recommended Programs

Outdoor and Nature-oriented Programs

- Themed Weekends at Campgrounds
 - Themed weekends at campgrounds are a new way for families to begin new and exciting outdoor traditions.
 - These themes may include Christmas in July, Come to the Carnival Weekend, 80's themed weekend, Zoo in the Campground, Tiki Beach Party, and Hallo-Weekend.
- Gardening
 - Instructional classes about vegetable and flower gardening basics (ie. soil, fertilizer, pests, and diseases), open to all members of the community.
- Picnic Facilities
 - Sheltered and accessible areas at the head of trails, outdoor pool facilities, and at parks with picnic tables and firepits.
 - Facilities at trails have potential to be used year-round by walkers, cyclists, ATV users, and snowmobiles.
 - A place to snack, socialize, and relax while outdoors.
- Paddle Sports
 - Rentals and guided tours allow members of the community to explore nature by water, while socializing and exercising.
 - Popular paddle sport activity includes kayaking, canoeing, and stand-up paddle boarding.

Arts and Cultural Programs

- Dance
 - Various types of dance classes offered for all ages including line, hip hop, ballet, Acro, and tap.
- Music
 - Beginner friendly instrumental and vocal classes for all ages.
 - Guitar, drum, keyboard, piano, ukulele, recorder, and saxophone.
 - Music clubs open to all members of the community including choir and guitar.
- Arts and Crafts
 - Instructional classes for residents of all ages including painting, photography, quilting, calligraphy, printmaking, and jewelry making.
- Performance Theatre
 - Offers programs such as musical theatre, stage makeup, acting, auditioning, and improv.
- Cultural
 - Cooking classes that introduce participants to how food is prepared and enjoyed by other cultures.
 - Language classes allow community members to learn new words and expressions while meeting new peers.

LIST OF RECOMMENDED PROGRAMS (CONTINUED)

Recommended Programs

Opportunity and Spaces for Recreation Level Sports

- Recreational Tennis League
 - Outdoor Facility: Mildmay Old Ball Park Tennis Courts
- Recreational Volleyball League
 - Indoor Facility: Hillcrest Central School
- Recreational Basketball League
 - Indoor Facility: Hillcrest Central School
- Recreational Lacrosse League
 - Outdoor Facility: Mildmay-Carrick Public School, Mildmay Arena Park, and Hillcrest Elementary School

Festivals and Events that Build a Sense of Community

- Farmer's Market
 - A space where all members of the community can come together to socialize, shop, and sell local product.
 - May feature special pop-up events to further engage the community. (ie.face painting).
- Walk-A-Thon
 - A marathon would bring the community and their commonly shared interest of walking together.
 - Possibility of vendors present for participants and spectators to purchase snacks and refreshments.
- Musical Festival
 - Local musicians performing music of various genres that are of interest to all ages.
 - Food and beverage vendors on site.
- Food and Beverage Tasting Festivals
 - Provides local restaurants an opportunity to create revenue and members of the community an opportunity to sample, socialize and get outside.
 - Beer and wine festival are a chance for local distilleries, vineyards, and breweries to show off their product while bringing the community together.

TRACT