RECOMMENDATION:
The Council receive staff report TES.19.19 for information.

BACKGROUND AND ANALYSIS:
On December 5, 2019 Council meeting, item 10.5 was received and motion was carried:

That the Saugeen Conservation correspondence regarding the Town Pond Dam removal be received; and
That subject to financial support and funding yet to be determined, the Municipality is agreeable to the removal of the Town Pond dam and restoration of Armstrong Creek; and
That the Municipality supports Saugeen Valley Conservation Authority and its partners with investigating design options for the removal of the Town Pond dam in consultation with the Municipality understanding that final decisions on the control structure removal lies with the Municipality and its staff.
Moved By Cathy Little, Seconded By Aakash Desai
CARRIED.

OPERATIONAL CONSIDERATIONS:
Grey Highland' TES department has consulted with Jo-Anne Harbinson, SVCA and Jeff Graham, GSS Engineering Consultants Ltd. to determine the appropriate design steps to proceed with within 2019, in anticipation for a 2020 capital project and budget approval.

The following steps as as follows:

2019 Activities:
1. Consultation with Conservation Authority and engineer
2. Sediment Survey within the existing pond
3. Reducing the water level
4. Monitor downstream conditions
5. Engineering of Dam removal
6. Grant application submissions
7. Public consultation (determine final design elements; tree planting, trail connections, enhanced natural environment plantings)
8. Cost analysis and budgeting
9. 2020 Capital project request - Tendering and permit applications.

2020 Activities:
1. Sediment and erosion control
2. Upstream & downstream flow control monitoring
3. Dam removal construction
4. Pond bed dry-out and stabilization
5. Construction of a meandering stream to match Rotary Park
6. Tree planting to enhance nature environment

GREY HIGHLANDS’ STRATEGIC PLAN:
The recommendation(s) included in this Staff Report support the following goals identified in the 2013-2018 Strategic Plan:
1. Communication - “Create greater opportunities for public communication and dialogue”.
2. Sustainable and Principled Growth - “Building Recreational Opportunities” and “Environmental Stewardship”.

COMMUNICATION POLICY:
Public consultation will be available through municipal website with a Connect survey for public feedback, newspaper postings and staff communication. Attached to this staff report will be the presentation of the Markdale Town Pond.

FINANCIAL IMPACT:
There are no financial implications for the Corporation in 2019 resulting from the proposed recommendations. 2019 cost will be recovered through a funding grant opportunity that is available through the Saugeen Valley Conservation Authority. Tendering and administration expenses in anticipation for Dam removal construction in 2020 will be presented within the 2020 TES Capital project budget process.

LEGAL IMPACT:
There are limited legal implications for the Corporation resulting from the proposed recommendation. If there was catastrophic failure of the existing Markdale Town Pond dam, the Municipality would be liable as dam and property owners.

STAFFING IMPACT:
Staffing time is limited to organizing project design review and coordinating public input through the website Connect survey process.

CONSULTATION:
Karen Mills, CRM, Interim CAO/Treasurer was consulted regarding the overall report. Jo-Anne Harbinson, Hons. B.Sc. Manager of Water Resources and Stewardship Services, Saugeen Conservation; Jeff Graham P. Eng., GSS Engineering Consultants Ltd.
<table>
<thead>
<tr>
<th>Approved By</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herb Lemon, Director of Transportation</td>
<td>Approved - 24 Jun 2019</td>
</tr>
<tr>
<td>Karen Mills, Director of Finance/Treasurer/Interim CAO</td>
<td>Approved - 24 Jun 2019</td>
</tr>
</tbody>
</table>
Markdale Town Pond
Drone Aerial Survey

Video link: https://youtu.be/lcUOGtQOVZA
Markdale Town Pond
Damaged Dam Outlet Structure

Video Link: https://youtu.be/YJcnkUvAhOM
Markdale Town Pond
Erosion on the East Side of the Dam

Video Link:  https://youtu.be/aOOh7wB38a8
Markdale Town Pond
Rotary Park -
Meandering Stream

Video Link: https://youtu.be/3tpHEgo314w
Markdale Town Pond
Public Feedback on Dam Removal:

Schedule of 2019 Activities:
1. Sediment Survey within the existing pond
2. Consultation with Conservation Authority and DFO
3. Reducing the water level
4. Monitor downstream conditions
5. Engineering of Dam removal
6. Grant application submissions

2020 Anticipated Activities:
1. Cost analysis and budgeting
2. Tendering and permit application
3. Sediment and erosion control
4. Upstream & downstream flow control monitoring
5. Dam removal construction
6. Pond bed dry-out and stabilization
7. Construction of a meandering stream to match Rotary Park