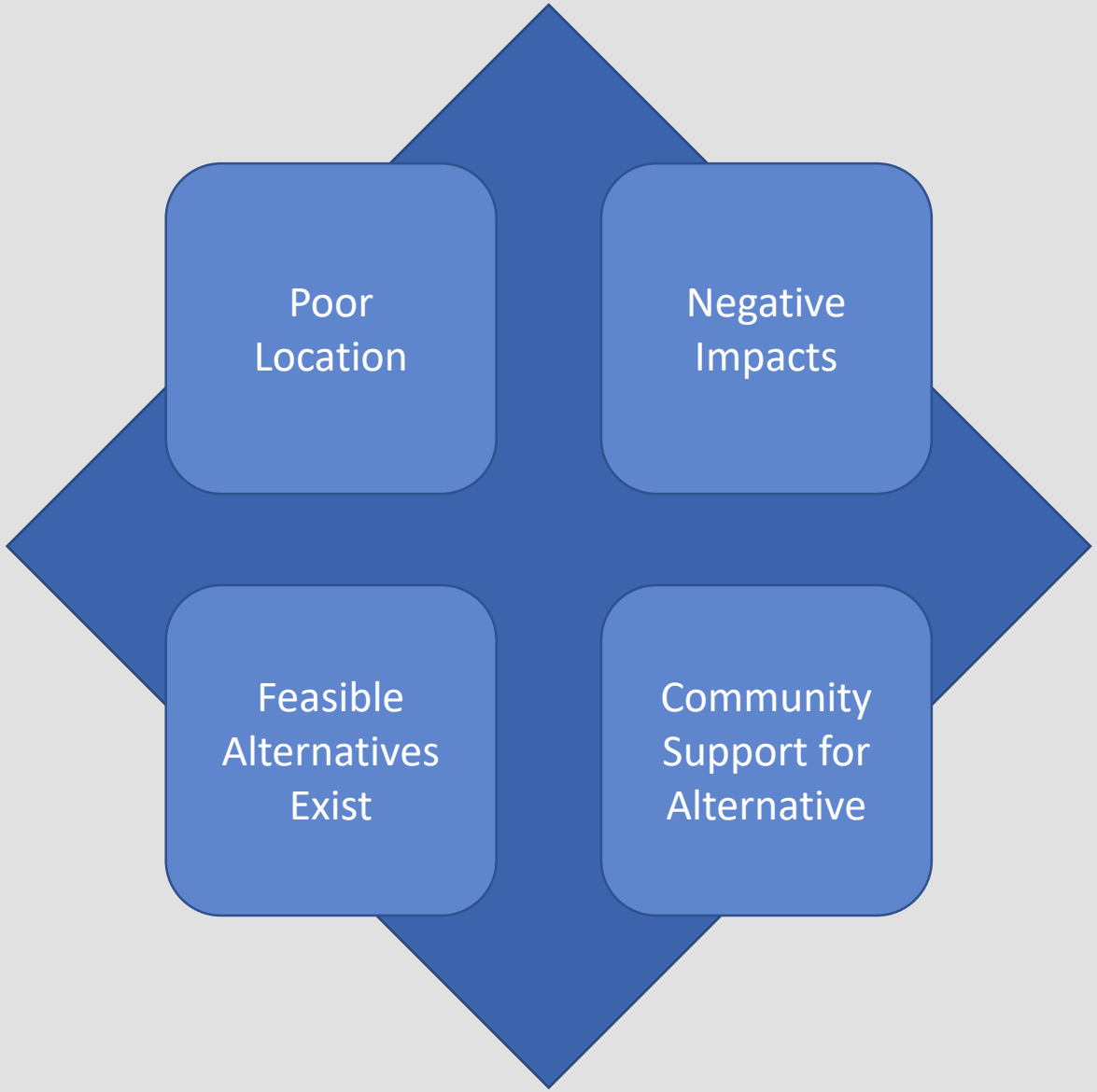
Why a water tower should not be constructed at the Robert E. Wade Community Park



APPROX SIZE

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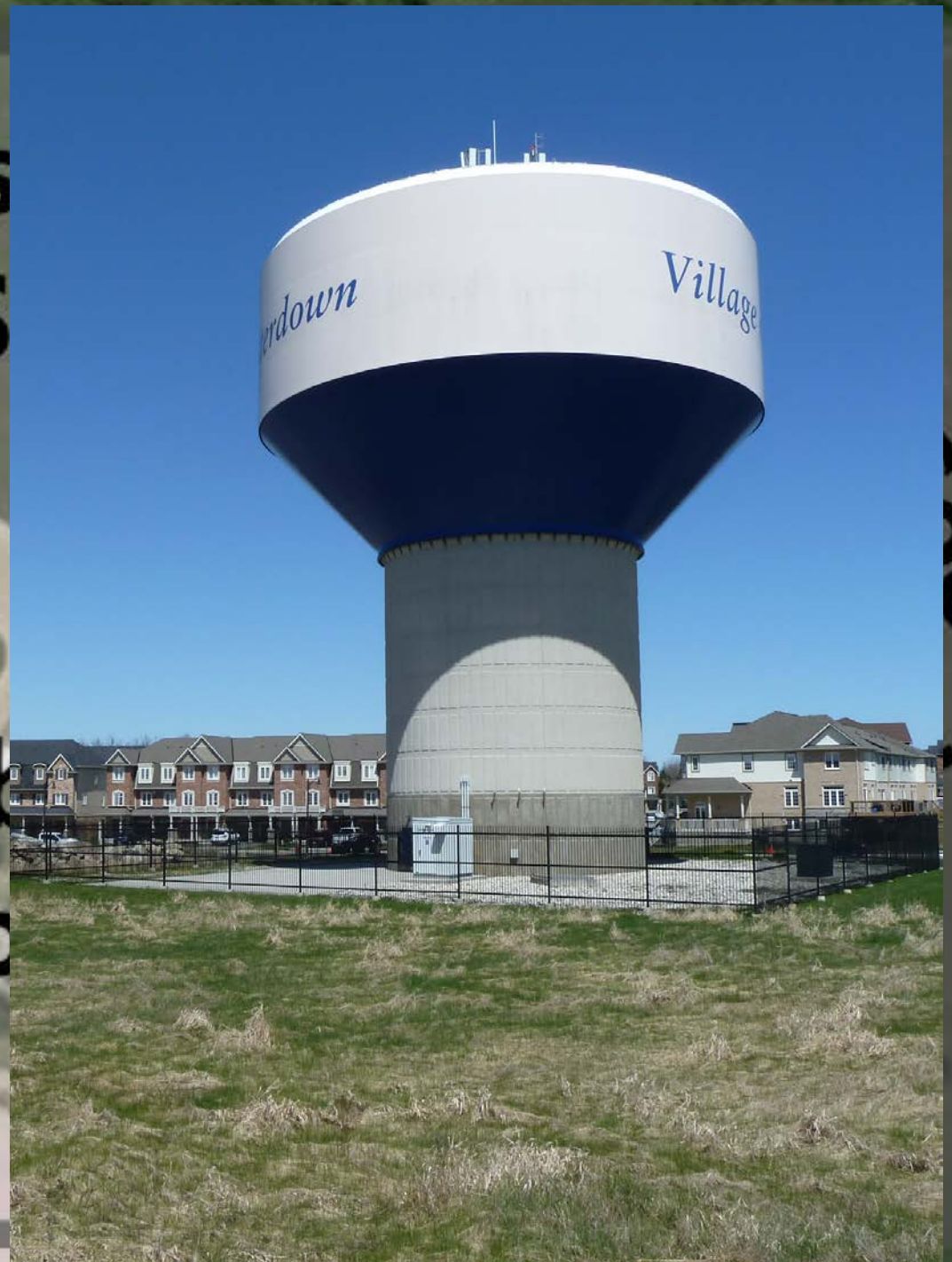
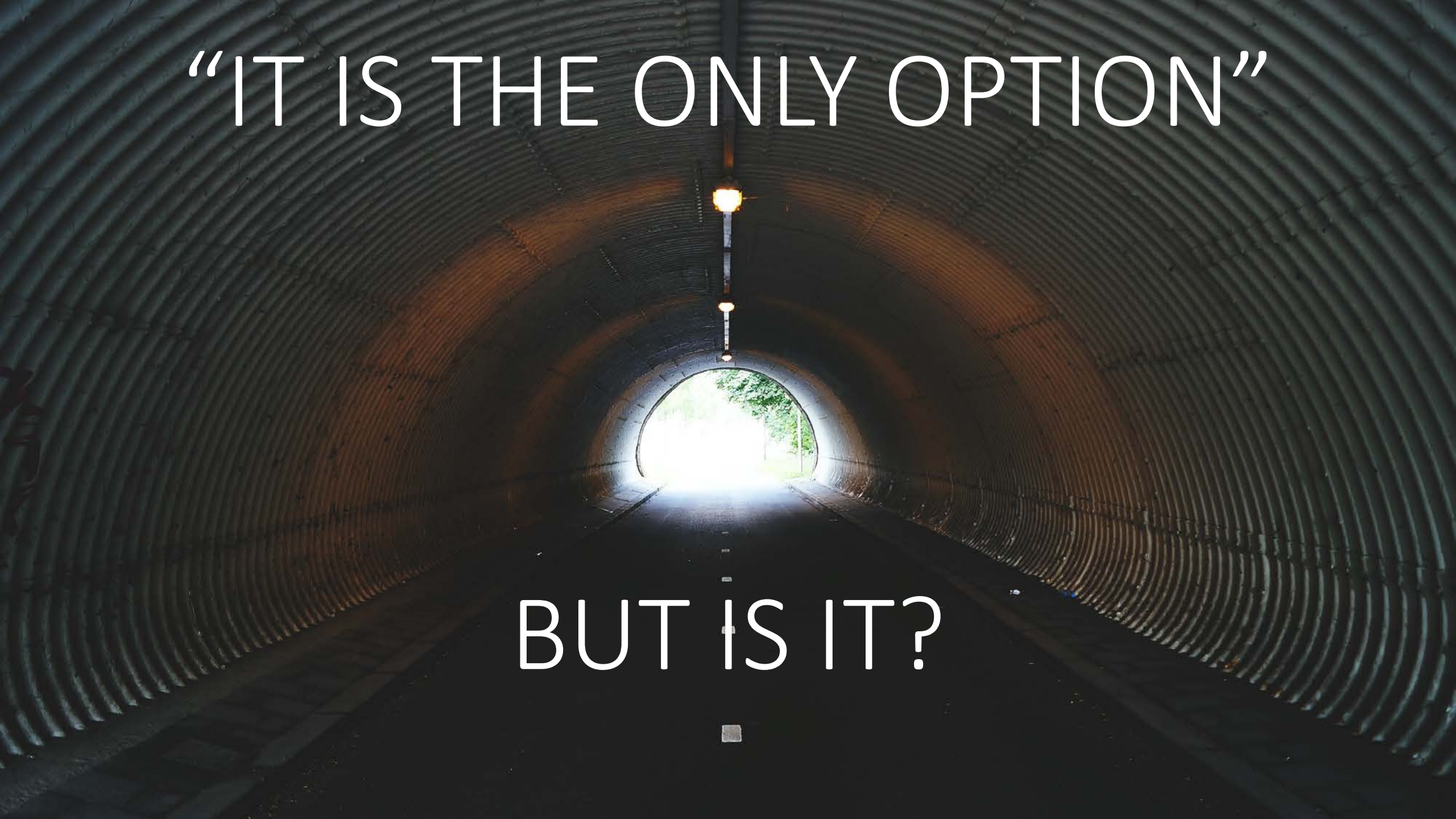



“IT IS THE ONLY OPTION”
BUT IS IT?

There are actually

5

Alternatives

Alternative 0: Do nothing

Alternative 1: Pumping Station Upgrade Only

Alternative 2: Water Tower plus Pumping Station Refurbishment

Alternative 3: Pumping Station Upgrade and New Booster Station

Alternative 4: Pumping Station Upgrade, New Booster Station and In-Ground Reservoir

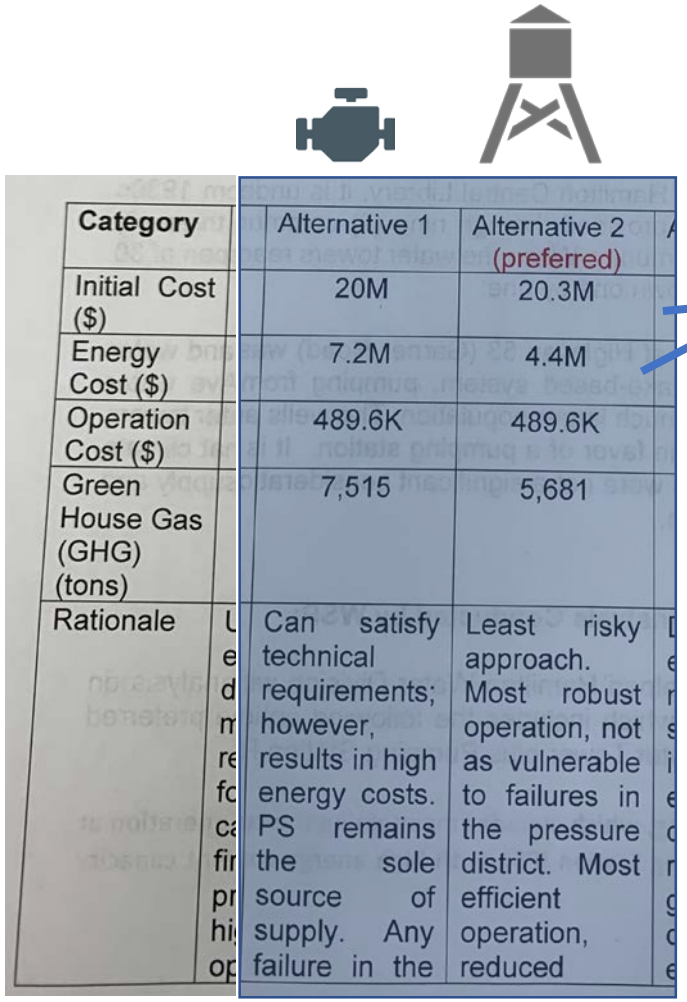
Technical Evaluation

Category	Alternative 0	Alternative 1	Alternative 2 (preferred)	Alternative 3	Alternative 4
Initial Cost ($)	2M	20M	20.3M	22.6M	23.4M
Energy Cost ($)	19.3M	7.2M	4.4M	6.1M	6.1M
Operation Cost ($)	1.3M	489.6K	489.6K	979.2K	979.2K
Green House Gas (GHG) (tons)	12,613	7,515	5,681	6,332	6,332
Rationale	Unsustainable operation, does not meet MECP requirements for firm capacity and fire flow protection, high operations	Can satisfy technical requirements; however, results in high energy costs. PS remains the sole source of supply. Any failure in the	Least risky approach. Most robust operation, not as vulnerable to failures in the pressure district. Most efficient operation, reduced	Dependence on PS to maintain supply; increased energy costs; requires greater capacity to ensure firm	Dependence on PS to maintain supply; increased energy costs; requires greater capacity to ensure firm capacity; high lifecycle costs

Alternative 1: Pumping Station Upgrade Only

Alternative 2: Water Tower plus Pumping Station Refurbishment

Will we really save?



Category	Alternative 1	Alternative 2 (preferred)
Initial Cost ($)	20M	20.3M
Energy Cost ($)	7.2M	4.4M
Operation Cost ($)	489.6K	489.6K
Green House Gas (GHG) (tons)	7,515	5,681
Rationale	Can satisfy technical requirements; however, results in high energy costs. PS remains the sole source of supply. Any failure in the	Least risky approach. Most robust operation, not as vulnerable to failures in the pressure district. Most efficient operation, reduced

OVER 60 Year Period

$2,800,000 - $300,000 = $2,500,000

$2,500,000 / 60 years = $41,000 / year

HIGH Risk of additional Costs / Cost Overruns due to poorly suited location

- Stability (on edge of a very steep part of the escarpment)
- Erosion control and water run off
- Dismantling and reconstruction of a baseball diamond.

Need to conduct multiple studies

- Vegetation and community mapping
- Wild life survey
- Species at risk
- Fish and fisheries

Environmental impact?

Category	Alternative 1	Alternative 2 (preferred)
Initial Cost ($)	20M	20.3M
Energy Cost ($)	7.2M	4.4M
Operation Cost ($)	489.6K	489.6K
Green House Gas (GHG) (tons)	7,515	5,681
Rationale	Can satisfy technical requirements; however, results in high energy costs. PS remains the sole source of supply. Any failure in the	Least risky approach. Most robust operation, not as vulnerable to failures in the pressure district. Most efficient operation, reduced

OVER 60 Year Period

7,515 - 5,681 tons = 1,834 tons

1,834 tons / 60 years = 30.6 tons / year

90 Mins. / year

How much GHG will be produced by the construction of a Water Tower?

Evaluation Criteria	Site #1 North-East corner of Martin Rd. and Jerseyville Rd. W.	Site #2 West of Fiddler's Green Rd. and Garner Rd. W In James Smith Park	Site #3, #4, #7 to #12 South-West corner of Fiddler's Green Rd. and Garner Rd. W.	Site #5 North-West of Southcote Rd. and Garner Rd. E.	Site #6 North-East of Raymond Rd. and Rymal Rd. W.
	Natural Environment Considerations				
Proximity to Environmentally Sensitive Areas	In Niagara Escarpment	Identified as Provincially Significant Wetland by City. Sections of previously disturbed areas. No natural features of note.	No significant natural features were identified, although there is the City's Natural Heritage System and unevaluated wetlands within close proximity. Further investigation is required.	American Chestnut and Significant Woodlands located within the site.	No environmentally sensitive areas within the site.
	Social & Cultural Environment Considerations				
Proximity to Built Heritage Areas	Near Designated Built Heritage Area	Near Designated Built Heritage Area	Areas listed in the City's inventory of Buildings of Architectural and/or Historical Interest.	Not in the proximity of any Built Heritage Areas	Not in the proximity of any Built Heritage Areas
Proximity to Archaeological and Cultural Heritage Areas	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required.	Area disturbed by grading and heavy landscaping. Previously assessed in 1995 and 1997. No archaeological potential found.	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required. A portion of the area within	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required.	Area disturbed by grading and heavy landscaping. Previously assessed in 2004. No archaeological potential found.
Constructability and Site Access	Accessible by urban local road Jerseyville Rd. W.	Accessible by minor arterial road Garner Rd.	Accessible by minor arterial road Fiddler's Green Rd.	Accessible by urban local road Bookjans Dr.	Accessible by urban local road Vinton Rd.
System Reliability and Hydraulic Performance	Located within the highest elevation area of the pressure district, near the areas more likely to experience low pressures. The distance from the pumping station and the size of the pipe feeding the site results in greater pressure losses.	Most preferred hydraulically. Highest pressures in the district when operated under gravity. In close proximity to the existing 400mm diameter trunk main along Garner Rd.	Most preferred hydraulically. Highest pressures in the district when operated under gravity. In close proximity to the existing 400mm diameter trunk main along Garner Rd.	Most preferred hydraulically. Highest pressures in the district when operated under gravity. In close proximity to the existing 400mm diameter trunk main along Garner Rd.	This Site is the least preferred hydraulically due to the distance to the west side of the pressure district, which is more likely to experience low pressures. Low pressure during maximum day condition. In addition, the reservoir location is serviced by 300mm diameter pipes.
Summary	Located within the Niagara Escarpment and near a built heritage area. Contains archaeological potential. Owned by the City. High aesthetic impact on the Escarpment and high impact during construction. Reduced reservoir height. Accessible by urban local roads. Less preferred hydraulically.	Located beside a designated built heritage area and in a Provincially Significant Wetland. No archaeological potential. High impact during construction due to being within a major residential area. Owned by the City. Reduced reservoir height. Accessible by minor arterial road. Most preferred hydraulically.	Not near any environmentally sensitive areas or built heritage areas. Contains archaeological potential. Privately owned. Is not near major residential areas and will have low construction impact. Reduced reservoir height. Accessible by minor arterial road. Most preferred hydraulically.	Located within the American Chestnut and Woodlands area. Not near any built heritage areas. Owned by the City. High impact during construction due to being within a major residential area. Reservoir is required to be taller due to lower ground height. Accessible only by urban local roads. Most preferred hydraulically.	Not located near any environmentally sensitive areas or built heritage areas. No archaeological potential. Large aesthetic and construction noise impact on the residential area. Owned by the City. Reservoir is required to be taller due to lower ground height. Accessible only by urban local roads. Least preferred hydraulically.
Rank	Least preferred	Less preferred	Most preferred	Less preferred	Less preferred

Successful projects are more than technical specifications

Evaluation Criteria	Site #1	Site #2	Site #3, #4, #7 to #12	Site #5	Site #6
	North-East corner of Martin Rd. and Jerseyville Rd. W.	West of Fiddler's Green Rd. and Garner Rd. W In James Smith Park	South-West corner of Fiddler's Green Rd. and Garner Rd. W.	North-West of Southcote Rd. and Garner Rd. E.	North-East of Raymond Rd. and Rymal Rd. W.
	Natural Environment Considerations				
Proximity to Environmentally Sensitive Areas	In Niagara Escarpment	Identified as Provincially Significant Wetland by City. Section of [illegible] disturbed areas. No natural features of	[illegible] Natural Heritage System and proximity. Further investigation is		
	Social & Cultural Environment Considerations				
Proximity to Built Heritage Areas	Near Designated Built Heritage Area	Near Designated Built Heritage Area	Areas listed in the City's inventory of Buildings of Architectural and/or Historical Interest.	Not in the proximity of any Built Heritage Areas	Not in the proximity of any Built Heritage Areas
Proximity to Archaeological and Cultural Heritage Areas	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required.	Area disturbed by grading and heavy landscaping. Previously assessed in 1995 and 1997. No archaeological potential found.	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required. A portion of the area within the sites has been identified as Cultural Heritage Resources.	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required.	Area disturbed by grading and heavy landscaping. Previously assessed in 2004. No archaeological potential found.
Aesthetic Impact	High, in the Niagara Escarpment	High, within residential areas	Low, south of Garner Rd.	High, within residential areas	High, within residential areas
Land Ownership	Owned by the City	Owned by the City	Privately Owned	Owned by the City	Owned by the City
Noise, Traffic, and Dust Impacts Disrupting Surrounding Area During Construction	High, near residential areas. High traffic impact on Jerseyville Rd. W.	High, within residential areas. High traffic impact on Garner Rd.	Low, south of residential areas. High traffic impact on Fiddler's Green Rd.	High, within residential areas. Low traffic impact on local roads	High, within residential areas. Low traffic impact on local roads
	Economic Considerations				
Capital Cost including Land Acquisition ($M)	$6.8	$6.9	$8.3	$6.9	$7.3
	Technical Considerations				
Tower Height	49 m	53 m	52 m	55 m	60 m
Constructability and Site Access	Accessible by urban local road Jerseyville Rd. W.	Accessible by minor arterial road Garner Rd.	Accessible by minor arterial road Fiddler's Green Rd.	Accessible by urban local road Bookjans Dr.	Accessible by urban local road Vinton Rd.
System Reliability and Hydraulic Performance	Located within the highest elevation area of the pressure district, near the areas more likely to experience low pressures. The distance from the pumping station and the size of the pipe feeding the site results in greater pressure losses.	Most preferred hydraulically. Highest pressures in the district when operated under gravity. In close proximity to the existing 400mm diameter trunk main along Garner Rd.	Most preferred hydraulically. Highest pressures in the district when operated under gravity. In close proximity to the existing 400mm diameter trunk main along Garner Rd.	Most preferred hydraulically. Highest pressures in the district when operated under gravity. In close proximity to the existing 400mm diameter trunk main along Garner Rd.	This Site is the least preferred hydraulically due to the distance to the west side of the pressure district, which is more likely to experience low pressures. Low pressure during maximum day condition. In addition, the reservoir location is serviced by 300mm
Summary	Located within the Niagara Escarpment and near a built heritage area. Contains archaeological potential. Owned by the City. High aesthetic impact on the Escarpment and high impact during construction. Reduced reservoir height. Accessible by urban local roads. Less preferred hydraulically.	Located bes[illegible] heritage ar[illegible] Significa[illegible] Wetland. No archaeological poten[illegible] High impact during co[illegible]truction due to being within a major [illegible]dential area. Owned by the City. [illegible]educed reservoir height. Accessible by minor arterial road. Most preferred hydraulically.	archaeological potential. Privately owned. Is not near major residential areas and will have low construction impact. Reduced reservoir height. Accessible by minor arterial road. Most preferred hydraulically.	heritage areas. Owned by the City. High impact during construction due to being within a major residential area. Reservoir is required to be taller due to lower ground height. Accessible only by urban local roads. Most preferred hydraulically.	[illegible]ally [illegible]eas. No archaeological potential. Large aesthetic and construction noise impact on the residential area. Owned by the City. Reservoir is required to be taller due to lower ground height. Accessible only by urban local roads. Least preferred hydraulically.
Rank	Least preferred	Less preferred	Most preferred	Less preferred	Less preferred

The city changed the zoning, but the location is the same. On the edge of the escarpment and DVCA. It is in close proximity to an extremely sensitive environmental area.

Least preferred

DUNDAS VALLEY CONSERVATION AREA

The Dundas Valley is one of southern Ontario's most spectacular natural treasures. Highlights of the 1,200-hectare conservation area include lush Carolinian forests, colourful meadows, cold-water streams, stunning geological formations and an array of rare plants, birds and wildlife.

The area is part of a large glacial valley that spreads out into Lake Ontario. It was excavated by a succession of glaciers that disappeared some 10,000 years ago The landscape that emerged has been shaped by glacial melt water and, more recently, by streams flowing through the valley.

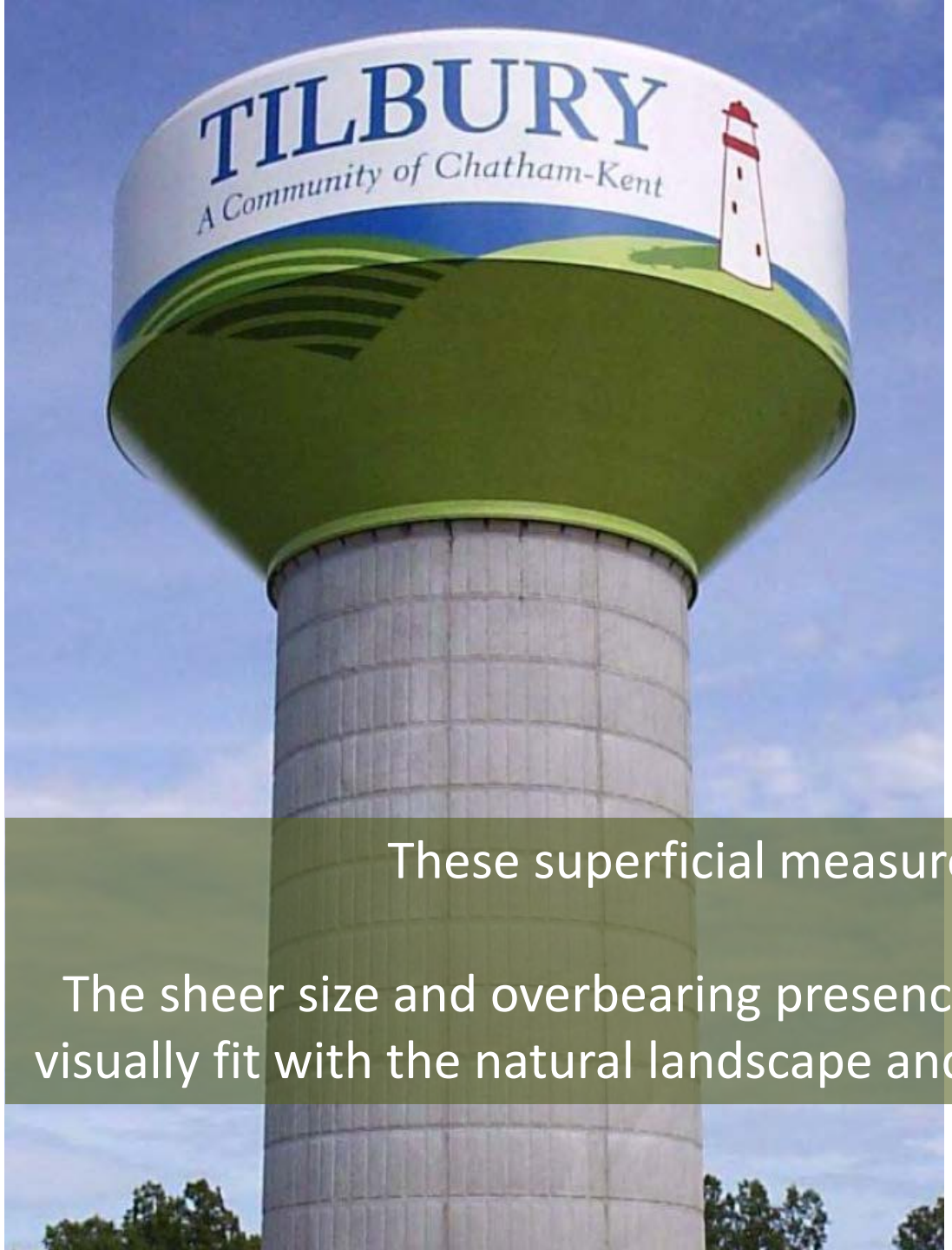
The rich natural environment existing here and along the Niagara Escarpment has been designated a World Biosphere Reserve by the United Nations Educational, Scientific and Cultural Organization (UNESCO).

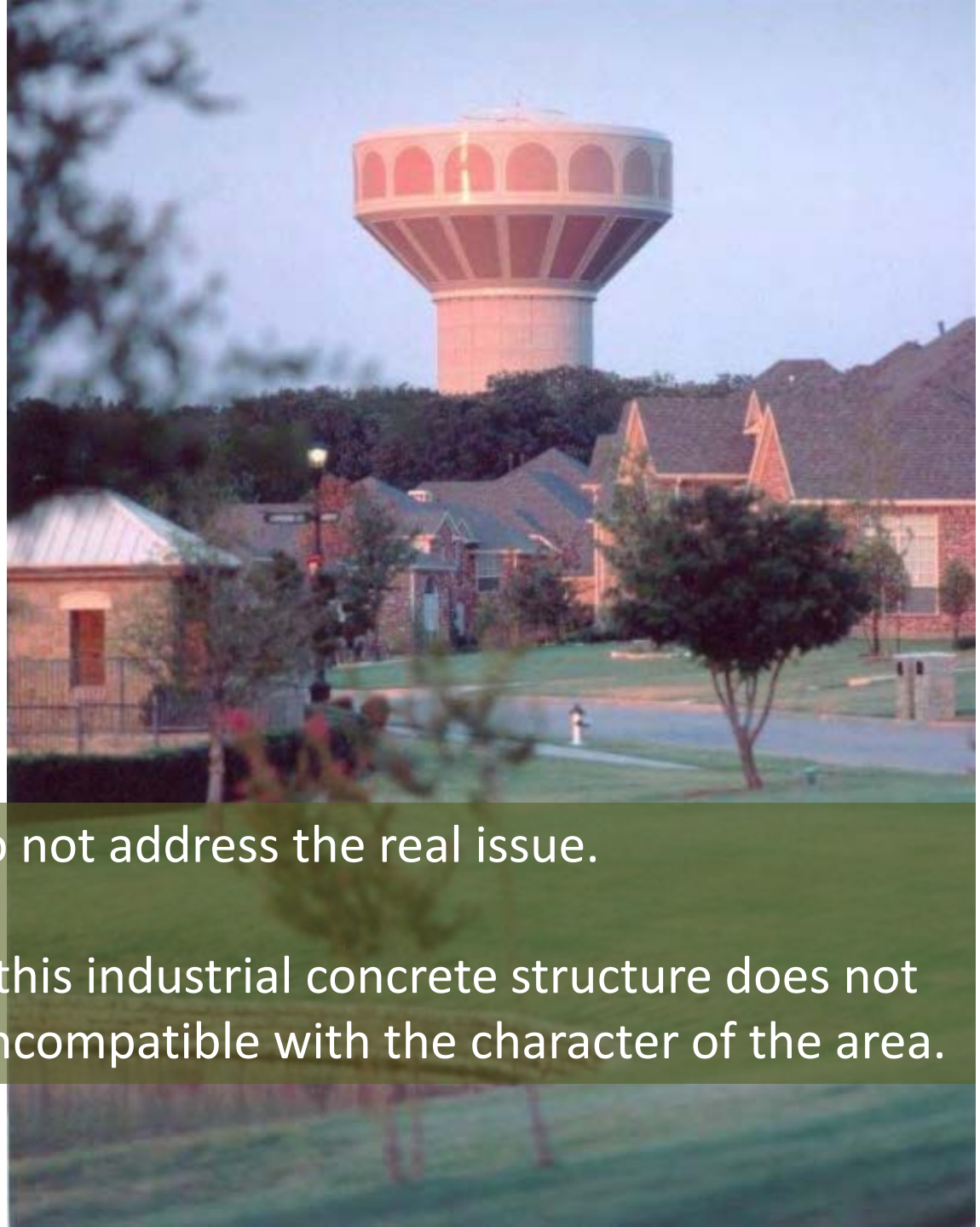
Evaluation Criteria	Site #1	Site #2	Site #3, #4, #7 to #12	Site #5	Site #6
	North-East corner of Martin Rd. and Jerseyville Rd. W.	West of Fiddler's Green Rd. and Garner Rd. W In James Smith Park	South-West corner of Fiddler's Green Rd. and Garner Rd. W.	North-West of Southcote Rd. and Garner Rd. E.	North-East of Raymond Rd. and Rymal Rd. W.
	Natural Environment Considerations				
Proximity to Environmentally Sensitive Areas	In Niagara Escarpment	Identified as Provincially Significant Wetland by City. Sections of previously disturbed areas. No natural features of note.	No significant natural features were identified, although there is the City's Natural Heritage System and unevaluated wetlands within close proximity. Further investigation is required.	American Chestnut and Significant Woodlands located within the site.	No environmentally sensitive areas within the site.
	Social & Cultural Environment Conside	**rations**			
Proximity to Built Heritage Areas	Near Designated Built Heritage Area	Near Designated Built Heritage Area	Areas listed in the City's inventory of Buildings of Architectural and/or	Not in the proximity of any Built Heritage Areas	Not in the proximity of any Built Heritage Areas
Proximity to Archaeological and Cultural Heritage Areas	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required.	Area disturbed by grading and heavy landscaping. Previously assessed in 1995 and [illegible]. No archaeological potential found.	Several sections appear undisturbed [illegible]. A Stage 2 Archaeological Assessment is required. A portion of the area within	Several sections appear undisturbed [illegible]. A Stage 2 Archaeological Assessment is required.	Area disturbed by grading and heavy landscaping. Previously assessed in 2004. No archaeological potential found.
Aesthetic Impact	High, in the Niagara Escarpment	High, within residential			
Land Ownership	Owned by the City	Owned by the City			
Noise, Traffic, and Dust Impacts Disrupting Surrounding Area During Construction	High, near residential areas. High traffic impact on Jerseyville Rd. W.	High, within residential traffic impact on Garner			
	Economic Considerations				
Capital Cost including Land Acquisition ($M)	$6.8	$6.9			
	Technical Considerations				
Tower Height	49 m	53 m			
Constructability and Site Access	Accessible by urban local road Jerseyville Rd. W.	Accessible by minor art Garner Rd.			
System Reliability and Hydraulic Performance	Located within the highest elevation area of the pressure district, near the areas more likely to experience low pressures. The distance from the pumping station and the size of the pipe feeding the site results in greater pressure losses.	Most preferred hydraul pressures in the district under gravity. In close p existing 400mm diamet along Garner Rd.			
Summary	Located within the Niagara Escarpment and near a built heritage area. Contains archaeological potential. Owned by the City. High aesthetic impact on the Escarpment and high impact during construction. Reduced reservoir height. Accessible by urban local roads. Less preferred hydraulically.	Located bes heritage ar Significant Wetland. No potent High impact d construction due to bei residential area. Owned Reduced reservoir heig by minor arterial road. Most preferred hydraulically.	preferred hydraulically.	urban local roads. Most preferred hydraulically.	Only by urban local roads. Least preferred hydraulically.
Rank	Least preferred	Less preferred	Most preferred	Less preferred	Less preferred

This industrial structure is being dropped in the midst of the Niagara Escarpment, Parkland and DVCA.

Measures will be taken to mitigate the visual impact

- Exterior paint to match neighboring structures
- Logos and lettering
- Night lighting
- Architectural enhancements to the tank
- Pedestal rustications
- Restrictions on signage and lighting
- Tank geometry
- Fencing / vegetative screening
- Use of non-reflective materials





These superficial measures do not address the real issue.

The sheer size and overbearing presence of this industrial concrete structure does not visually fit with the natural landscape and is incompatible with the character of the area.

Don’t worry you will not even see it

50 meters

100 meters

200 meters

500 meters

900 meters

Evaluation Criteria	Site #1	Site #2	Site #3, #4, #7 to #12	Site #5	Site #6
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Rank	Least preferred	Less preferred	Most preferred	Less preferred	Less preferred

This, and also located near residential area and could cause devaluation of property values.

"The City has researched and consulted with its own Real Estate Section about this issue, we could not find any evidence of water tower's influence on property values."

Although requested, the city has not provided me with a copy of this research and method used to come to this conclusion.

Least preferred

Evaluation Criteria	Site #1 North-East corner of Martin Rd. and Jerseyville Rd. W.	Site #2 West of Fiddler's Green Rd. and Garner Rd. W In James Smith Park	Site #3, #4, #7 to #12 South-West corner of Fiddler's Green Rd. and Garner Rd. W.	Site #5 North-West of Southcote Rd. and Garner Rd. E.	Site #6 North-East of Raymond Rd. and Rymal Rd. W.
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Rank	Least preferred	Less preferred	Most preferred	Less preferred	Less preferred

Highly utilized greenspace and community centre
Noise has detrimental impact on students performance.
Winds will blow dust towards community.

Least preferred

Community Impact

2,100 Members

2,200 Participants

990 Students
500 Participants Dared-to-Tri Race

600 Members

1,200 Participants

Autumn Stroll

Residents

Evaluation Criteria	Site #1 North-East corner of Martin Rd. and Jerseyville Rd. W.	Site #2 West of Fiddler's Green Rd. and Garner Rd. W In James Smith Park	Site #3, #4, #7 to #12 South-West corner of Fiddler's Green Rd. and Garner Rd. W.	Site #5 North-West of Southcote Rd. and Garner Rd. E.	Site #6 North-East of Raymond Rd. and Rymal Rd. W.
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Aesthetic Impact	High, in the Niagara Escarpment	High, within residential areas	Low, south of Garner Rd.	High, within residential areas	High, within residential areas
Land Ownership	Owned by the City	Owned by the City	Privately Owned	Owned by the City	Owned by the City
Noise, Traffic, and Dust Impacts Disrupting Surrounding Area During Construction	High, near residential areas. High traffic impact on Jerseyville Rd. W.	High, within residential areas. High traffic impact on Garner Rd.	Low, south of residential areas. High traffic impact on Fiddler's Green Rd.	High, within residential areas. Low traffic impact on local roads	High, within residential areas. Low traffic impact on local roads
	Economic Considerations				
Capital Cost including Land Acquisition ($M)	$6.8	$6.9	$8.3	$6.9	$7.3
	Technical Considerations				
Tower Height	49 m	53 m	52 m	55 m	60 m
Constructability and Site Access	Accessible by urban local road Jerseyville Rd. W.	Accessible by minor arterial road Garner Rd.	Accessible by minor arterial road Garner Rd.	Accessible by urban local road Garner Rd.	Accessible by urban local road Vinton Rd.
System Reliability and Hydraulic Performance	Located within the highest elevation area of the pressure district, near the areas more likely to experience low pressures. The distance from the pumping station and the size of the pipe feeding the site results in greater pressure losses.	Most preferred hydraulically. Highest pressures in the district under gravity. In close proximity to the existing 400mm diameter along Garner Rd.	Most preferred hydraulically. Highest pressures in the district under gravity. In close proximity to the existing 400mm diameter along Garner Rd.	Most preferred hydraulically. Highest pressures in the district under gravity. In close proximity to the existing 400mm diameter along Garner Rd.	This Site is the least preferred hydraulically due to the distance to the west side of the pressure district, which may experience low pressures. Low pressure during maximum day condition. In addition, the reservoir location is serviced by 300mm diameter mains.
Summary	Located within the Niagara Escarpment and near a built heritage area. Contains archaeological potential. Owned by the City. High aesthetic impact on the Escarpment and high impact during construction. Reduced reservoir height. Accessible by urban local roads. Less preferred hydraulically.	Located between heritage areas. Significant Wetland. No archaeological potential. High impact during construction due to being within a major residential area. Owned by the City. Reduced reservoir height. Accessible by minor arterial road. Most preferred hydraulically.	Located between heritage areas. Significant archaeological potential. Privately owned. Is not near major residential areas and will have low construction impact. Reduced reservoir height. Accessible by minor arterial road. Most preferred hydraulically.	Located between heritage areas. Owned by the City. High impact during construction due to being within a major residential area. Reservoir is required to be taller due to lower ground height. Accessible only by urban local roads. Most preferred hydraulically.	Located between heritage areas. No archaeological potential. Large aesthetic and construction noise impact on the residential area. Owned by the City. Reservoir is required to be taller due to lower ground height. Accessible only by urban local roads. Least preferred hydraulically.
Rank	Least preferred	Less preferred	Most preferred	Less preferred	Less preferred

Distance to pumping station will result in reduced efficiency requiring more power than planned.
The pipe size is 300mm - create increased pipe friction and efficiency losses. Ie. Increased power consumption.
Both lead to pressure losses.

Least preferred

Evaluation Criteria	Site #1	Site #2	Site #3, #4, #7 to #12	Site #5	Site #6
	North-East corner of Martin Rd. and Jerseyville Rd. W.	West of Fiddler's Green Rd. and Garner Rd. W In James Smith Park	South-West corner of Fiddler's Green Rd. and Garner Rd. W.	North-West of Southcote Rd. and Garner Rd. E.	North-East of Raymond Rd. and Rymal Rd. W.
	Natural Environment Considerations				
Proximity to Environmentally Sensitive Areas	In Niagara Escarpment	Identified as Provincially Significant Wetland by City. Section of the disturbed areas. No natural features of	Natural Heritage System and proximity. Further investigation is		
	Social & Cultural Environment Considerations				
Proximity to Built Heritage Areas	Near Designated Built Heritage Area	Near Designated Built Heritage Area	Areas listed in the City's inventory of Buildings of Architectural and/or	Not in the proximity of any Built Heritage Areas	Not in the proximity of any Built Heritage Areas
Proximity to Archaeological and Cultural Heritage Areas	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required.	Area disturbed by grading and heavy landscaping. Previously assessed in 1995 and [illegible]. No archaeological potential found.	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required. A portion of the area within the sites has been identified as Cultural	Several sections appear undisturbed and retain archaeological potential. A Stage 2 Archaeological Assessment is required.	Area disturbed by grading and heavy landscaping. Previously assessed in 2004. No archaeological potential found.
Aesthetic Impact	High, in the Niagara Escarpment	High, within residential areas	Low, south of Garner Rd.	High, within residential areas	High, within residential areas
Land Ownership	Owned by the City	Owned by the City	Owned by the City	Owned by the City	Owned by the City
Noise, Traffic, and Dust Impacts Disrupting Surrounding Area During Construction	High, near residential areas. High traffic impact on Jerseyville Rd. W.	High impact on Garner Rd.	High, near residential areas. High traffic impact on Fiddler's Green Rd.	Low traffic impact on local roads	Low traffic impact on local roads
	Economic Considerations				
Capital Cost including Land Acquisition ($M)	$6.8	$6.9	$8.3	$6.9	$7.3
	Technical Considerations				
Tower Height	49 m	53 m	52 m	52 m	52 m
Constructability and Site Access	Accessible by urban local road Jerseyville Rd. W.	Accessible by minor arterial road Garner Rd.	Accessible by minor arterial road Garner Rd.	Accessible by urban local road Garner Rd.	Accessible by urban local road Vinton Rd.
System Reliability and Hydraulic Performance	Located within the highest elevation area of the pressure district, near the areas more likely to experience low pressures. The distance from the pumping station and the size of the pipe feeding the site results in greater pressure losses.	Most preferred hydraulically. Highest pressures in the district under gravity. In close proximity to the existing 400mm diameter along Garner Rd.	Most preferred hydraulically. Highest pressures in the district under gravity. In close proximity to the existing 400mm diameter along Garner Rd.	Most preferred hydraulically. Highest pressures in the district under gravity. In close proximity to the existing 400mm diameter along Garner Rd.	This Site is the least preferred due to the distance to the west side of the pressure district, which is more likely to experience low pressures. Low pressure during maximum day condition. In addition, the reservoir location is serviced by 300mm diameter mains.
Summary	Located within the Niagara Escarpment and near a built heritage area. Contains archaeological potential. Owned by the City. High aesthetic impact on the Escarpment and high impact during construction. Reduced reservoir height. Accessible by urban local roads. Less preferred hydraulically.	Located best heritage ar Significa Wetland. No archaeological potent High impact during co truction due to being within a major dential area. Owned by the City. educed reservoir height. Accessible by minor arterial road. Most preferred hydraulically.	Located best heritage ar archaeological potential. Privately owned. Is not near major residential areas and will have low construction impact. Reduced reservoir height. Accessible by minor arterial road. Most preferred hydraulically.	Located best heritage areas. Owned by the City. High impact during construction due to being within a major residential area. Reservoir is required to be taller due to lower ground height. Accessible only by urban local roads. Most preferred hydraulically.	Located best heritage areas. No archaeological potential. Large aesthetic and construction noise impact on the residential area. Owned by the City. Reservoir is required to be taller due to lower ground height. Accessible only by urban local roads. Least preferred hydraulically.
Rank	Least preferred	Less preferred	Most preferred	Less preferred	Less preferred

The city changed the zoning, but the location is the same. On the edge of the escarpment and DVCA. It is in close proximity to an extremely sensitive environmental area.

This, and also located near residential area and could cause devaluation of property values.

Significant disruption to sports, clubs, events
Proven studies show noise has detrimental impact on students performance.
Winds will bow dust towards community.

Distance to pumping station will result in reduced efficiency requiring more power than planned.
The pipe size is 300mm - create increases pipe friction and efficiency losses. Ie. Increased power consumption.
Both lead to pressure losses.

Least preferred

Ancaster Elevated Water Reservoir

Schedule 'B' Municipal Class EA

Panel No. 10

Site 2,13 and 14 are disqualified because they are objected by NAV Canada and the Airport

Hamilton

Evaluation Criteria	Site #1 North-East corner of Martin Rd. and Jerseyville Rd. W. In the Robert E Wade Ancaster Community Park	Site #15 South of Jerseyville Rd. W., in-between Paddy Green Rd. and Shaver Rd.
Natural Environment Considerations		
Proximity to Regulated Areas	Some portions of Site 1 are regulated by the Hamilton Conservation Authority. However, the proposed siting of the water tower on Site 1 is not within a regulated area and the HCA has confirmed that a permit would not be required. The proposed elevated water reservoir may require mitigation measures to avoid possible adverse impacts to these lands.	Portions of Site 15 are within lands regulated by the Grand River Conservation Authority. Site 15 is also in close proximity to Significant Woodlands and may require mitigation measures to avoid possible adverse impacts to adjacent watercourses.
Wetlands	There are no wetlands located on or in proximity to Site 1.	Unevaluated wetlands occur approximately 50.0 metres to the southeast and 10.0m to the west of Site 15.
Woodlands	There are no identified woodlands located on Site 1.	There are no identified woodlands located on Site 15.
Significant Wildlife Habitat	No Significant Wildlife Habitat functions are attributed to Site 1.	No Significant Wildlife Habitat functions are attributed to Site 15.
ANSI	The Hamilton Official Plan identifies a woodland adjacent to Site 1 as an ANSI. However, the NHIC mapping does not show the presence of an ANSI.	There is no ANSI on or adjacent to Site 15.
Fisheries and Aquatic Resources	There are no watercourses located on Site 1, however there is a watercourse located within 100.0m.	There are no watercourses on Site 15, however there is a watercourse located within 50.0m.
Habitat of Threatened and Endangered Species	No SAR were identified on Site 1.	Barn Swallows, a SAR, were observed on Site 15.
Social & Cultural Environment Considerations		
Proximity to Cultural Heritage Resources	Site 1 is adjacent to the Woodend Estate (municipal address 838 Mineral Springs Road), a Designated Heritage Property.	Site 15 is not adjacent to and contains no known cultural or heritage resources.
Impact to Archaelogical Resources	A Stage 2 Archaeological Assessment is required.	A Stage 2 Archaeological Assessment is required.
Visual Impact to the Niagara Escarpment	Site 1 is located on lands designated under the Niagara Escarpment Plan and is adjcent to the Niagara Escarptment itself. This represents a potential visual obstruction of the Escarpment. Accordingly, the Niagara Escarpment Commission has requested a Visual Impact Assessment (VIA) to be completed.	Site 15 is not located on lands designated under the Niagara Escarpment Plan.
Visual Impact to Residents	Site 1 is adjacent to a major residential area south of Jerseyville Road West. Skylining mitigation measures will be required.	Site 15 is not adjacent to major residential areas, however skylining mitigation measures will be required.
Land Tenure	Site 1 is owned by the City and property acquisition is not required.	Site 15 is owned by the City and property acquisition is not required.
Construction Impact Mitigation	Site 1 construction will require temporary closure of portions of the existing community recreational area, Acute impacts from construction activity will be managed through a Construction Mitigation Plan.	Site 15 construction will require temporary closure of portions of the existing community recreational area. Acute impacts from construction activity will be managed through a Construction Mitigation Plan.
Long Term Public Health & Safety	Site 1 does not pose any known long-term risks to public health & safety.	Site 15 is located on a former municipal landfill. The potential for soil contamination with the presence of an elevated water reservoir may pose a long-term risk to public health & safety.
Impact to the City of Hamilton John C Munro International Airport Airspace	NAV CANADA has indicated a preference for Site 1. Site 1 does not represent a risk to the current and future safe operation of the City of Hamilton International Airport Airspace.	NAV CANADA determined Site 15 represents a heightened risk to the current and long-term safe operation of the City of Hamilton International Airport airspace.
Land Use Regulations	Site 1 is located on lands designated under the Niagara Escarpment Plan and is subject to a Visual Impact Assessment and NEC Development Permit prior to construction. Portions of Site 1 are also regulated by the Hamilton Conservation Authority. Pending the final siting of the proposed elevated water reservoir, a permit from the NEP and HCA may be required. Accordingly, the NEP must be satisified with the EA (and related studies) prior to reviewing an application for a Development Permit.	Portions of Site 15 are within lands regulated by the Grand River Conservation Authority. Pending the final siting of the proposed elevated water reservoir, a permit from the GRCA may be required.
Economic Considerations		
Capital Cost including Land Acquisition ($M)[1]	$14.0	$14.5
Technical Considerations		
Site Access	Access to Site 1 would be provided via Jerseyville Road West.	Access to Site 1 would be provided via Jerseyville Road West.
Tower Height (m)	49	60
System Reliability and Hydraulic Performance	Site 1 is located within the highest elevation area of the pressure district, near the areas more likely to experience low pressures. The distance from the pumping station and the size of the pipe feeding the site results in greater pressure losses.	Site 15 is located within the highest elevation area of the pressure district, near the areas more likely to experience low pressures. The distance from the pumping station and the size of the pipe feeding the site results in greater pressure losses.
RANKING	**Site 1** Preferred	**Site 15** Less Preferred

[1]Based on a tank capacity of 9.91 ML

Community Petition

Approximately 40 posters and 300 flyers delivered to local residents.

Blocked from posting information at Community Centre

Preserve Ancaster's Green Space and the Aesthetics of the Dundas Valley Conservation Area

135 have signed. Let's get to 200!

City of Hamilton Ontario: Preserve the Aesthetics of the Dundas...

Share on Facebook

Send a Facebook message

Send an email to friends

Tweet to your followers

A water tower should not be constructed at the Robert E. Wade Community Park

There is a feasible and arguably preferred alternative available, I believe we should do everything possible to protect and preserve this community space.

- Poor Location
- Negative Impacts
- Feasible Alternatives Exist
- Community Support for Alternative