

2024 Life Cycle Program

April 9, 2024



Background of the program

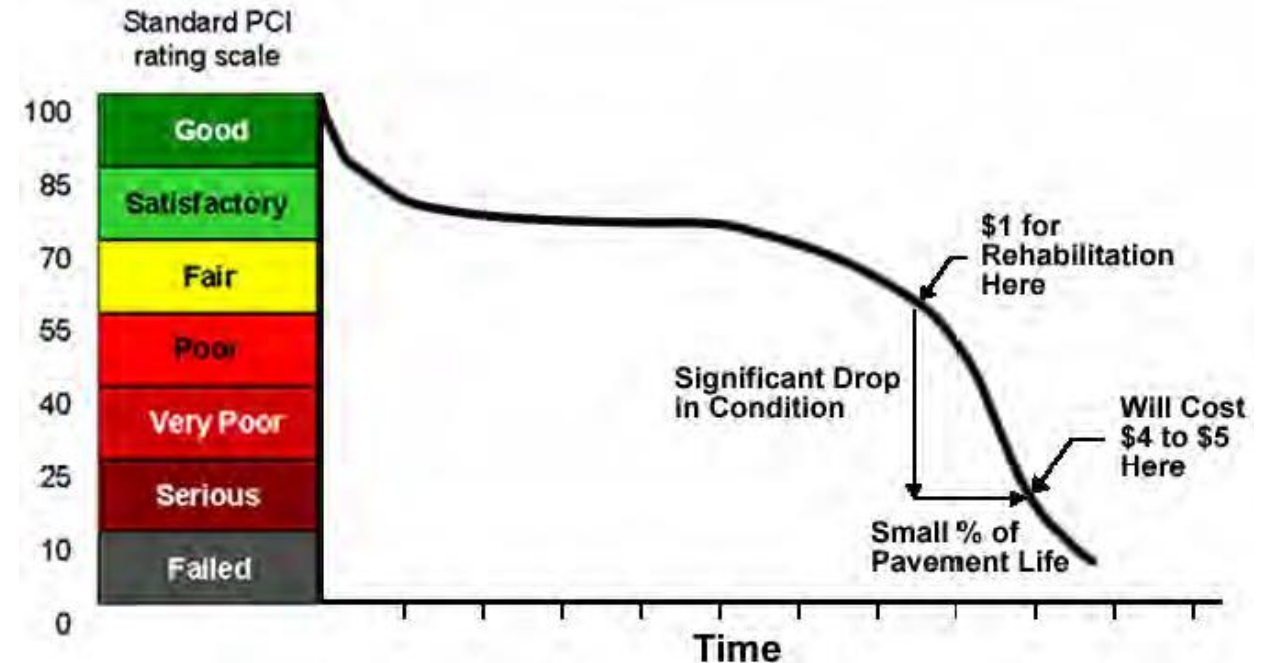
- The intent of the Life Cycle Extension program as outlined in the 2024 Capital program 9832407, is to maintain and preserve roads sections. This is done through the following programs:

Program Types
Local Asphalt Paving
Local Surface Treatment N/A in 2024
Micro-Resurfacing N/A in 2024
Roads to be Pulverized due to Maintenance demand
Slurry Sealing
Crack Sealing

- The program utilizes these methods in order to sustain road section segments in a reasonable state until such time as a future capital project is implemented, as well as extending the life of moderate to good road surfaces (by pushing out the time of need for a complete resurfacing or reconstruction).

Background of the program - Continued

- This figure illustrates the underlying principle in support of a preservation management approach to pavement infrastructure.
- The principle also has application to each of the classes of roads maintained by the City. Significant cost savings will result from proactive intervention rather than simply waiting as long as possible before performing maintenance



Background of the program - Continued

2021 Council passed the following resolution

CW2020-009

That Report MAYOR 2019-001, Deputy Mayor's 2019 Round Table Meetings on Roads, be received;

That staff report to Council each spring regarding life cycle extension needs in relation to the approved budget.

Carried
CR2021-263

Below is a link to the City's website for the presentation on Roads 101

<https://www.kawarthalakes.ca/en/living-here/roads-and-parking.aspx>

Types and locations of Works for 2024 Life Cycle Program

- The main works as described in report ENG2024-008 for the 2024 Life Cycle program are the following

Localized Resurfacing:

The scope of work for these road sections involve spot repair by resurfacing with an overlay of hot mix asphalt in spot segments of the roads but is not limited to and can include pulverizing adding gravel and paving

Road	From	To	Length (m)
Young St	CKL 45	Rumohr Dr.	167
Rumohr Dr.	Young's St.	CKL 45	265
Black School Road	30 m west of #381	970 m east of #381	1000
Cresswell Road	#261	500m West of #261	500
Cresswell Road	Simcoe St	#45 Cresswell Rd	400
Mary St	Alma St.	Cross St	275
Ballyduff Road	Highway 35	Manvers Scugog Townline	385
Hollowtree Road	Mark Road	Killarney Bay	1330
Island Drive	Burnt River Road	Hemlock Drive	741
Balsam Road	Snug Harbour Road	Sturgeon Crescent	275
Sturgeon Crescent	Balsam Road	Balsam Road	475
Sandaraska Road	Porter Road	Boundary Road	385
Clearview	Charlore Park Drive	250 m south	250
		Total	6448



Types and locations of Works for 2024 Life Cycle Program

Pulverizing :

The scope of work for these road sections involve pulverizing the road then maintain it as gravel road segment until such time as identified in the 5-year roads plan for resurfacing. This can be a 1 to 2-year timeframe but in the case for the roads

Road	From	To	Length (m)
Bethel Road	Highway 7	1.225km N of Highway 7	1225
Bethel Road	Valley road	90 m east and west of the intersection of Valley Road and Bethel Road	180
		Total	1405



Types and locations of Works for 2024 Life Cycle Program

Slurry Sealing :

Slurry seal is a mixture of well-graded fine aggregate, mineral filler, asphalt emulsion and water applied to a pavement as a surface treatment. It protects existing surfaces from:

Moisture intrusion

- Fills surface voids, cracks and minor depressions
- Retards further oxidization of pavement
- Provides skid resistant surface
- Extends the service life.

Road	From	To	Length (m)
Boundary Road	Yankee Line	Mallard Bay Road	1400
River Road	MTO 35	MTO 7	3200
Cedar Glen	CKL 24	Earl Kennedy	2600
Kennedy Bay Road	CKL 36	Deerwood Ave	2000
Cottage Road	CKL 16	Sand Bar Road	3600
Shirley Ann Dr.	Beach Road	Beach Road	800
Fleetwood Road	MTO 35	Ski Hill Road	7750
Manvers-Scugog Boundary	Yelverton Road	Devitts Road	3750
Charlore Park road	Shamrock road	all	2586
Yelverton Road	Gray Road	CKL 5	5100
		Total	32786



Types and locations of Works for 2024 Life Cycle Program

Crack Sealing :

- Crack sealing is the process of placing an adhesive sealant into cracks on the pavement surface, preventing the infiltration of moisture and non-compressible materials into the pavement.
- The City's crack sealing program is currently identified to continue on CKL road 6 north of CKL 8 which is where the project was completed to in 2023. It will progress towards CKL 45 and once completed it will proceed to CKL 45. These locations will most likely be completed over the next 2-3 years. This project focuses on arterial roads within segments that have recently received shoulder rehabilitation by Public Works

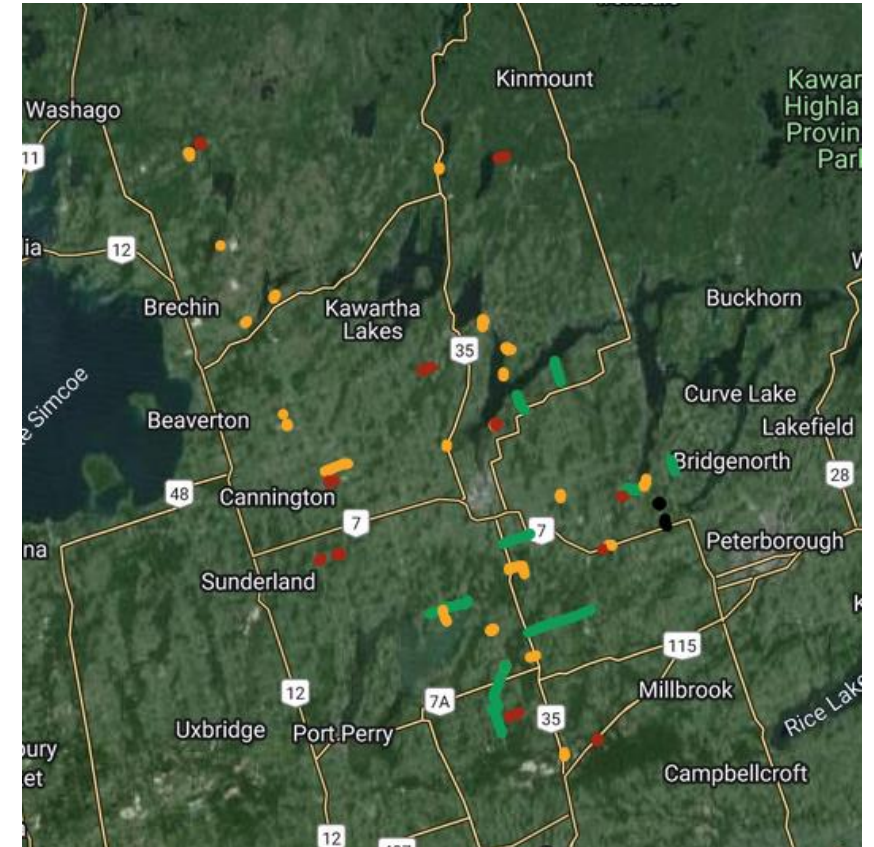


Types and locations of Works for 2024 Life Cycle Program

Below is a link to a Google earth map showing the locations of the projects within the program as well as unfunded works

- Lifecycle Extension Roads (2024)
- T3- Localized (Unfunded)
- T4- Slurry Sealing
- T1- Localized
- T2- Pulverized

<https://www.google.com/maps/d/edit?mid=1IRIfKelaQNTbkNyHiDRwF5TO650Xzl8&usp=sharing>



Going Forward

Works Identified but unfunded for Localized resurfacing in 2024			
Road	From	To	Length (m)
Adella road	Hwy 35	end	315
Rama-Dalton Boundary Road	900m North of Monck Road	1400m North of Monck Road	500
The Glen Road	125 m east of #651	300 m west of #381	425
Driftwood Shores Rd	Cenntenial Park road	800 m east	800
Canal Road	25 m west of #32	90 m east of #32	115
Campbell Beach Road	Mara/Carden Boundary	90m North	90
Farms Road	#492	30m North of #507	200
Farms Road		In front of #360	30
Farms Road	50m North of #360	180m North of #360	130
McLarens Creek Road	CKL 21	100 m west	100
Dovehaven Road	Rainbow Ridge	550 meters north of Rainbow	550
Dovehaven Road	Cottage Road	500m South of Cottage Road	500
Blythe Shore	Sturgeon Point Road	Gold Street	860
Henry Street	Forest Road	Graham Lane	355
Moore Crescent	North Street	East End	73
Henry Street	Forest Road	Graham Lane	355
Green Street	Lindsay Street	North street	154
West Street	Lindsay Street	Wychwood Crescent	270
Buckhorn Road	Sturgeon Crescent	Balsam Road	269
Mill Street	King Street	Bridge Limit	60
Heights Road	Tracey's Hill Road	305m North of Tracey's Hill Road	305
Heights Road	Tracey's Hill Road	305m South of Tracey's Hill Road	305
Victoria Street	George Street	Sturgeon Road	115
Westview Drive	#53	#48	70
Westview Drive	Yankee Line	#3	40
Kenedon Drive	#157	#145	100
Lifford Road	Highway 35	Chipmunk Road	150
Stoney Creek Road	Highway 35	400m West of Highway 35	400
John Street	100m North of Highway 35	140m North of Highway 35	40
John Street	225m North of Highway 35	255m North of Highway 35	30
John Street	500m North of Highway 35	725m North of Highway 35	225
Tower Road	Highway 35	Star Hill Road	501
Corner Road	Yelverton Road	Sugarbush Road	181
Pigeon Creek	#286	Just West of #249	375
		Total	8988

This chart represents the balance of the current working list for locations identified by Public Works where spot repairs with asphalt overlays would be beneficial by reducing maintenance demand in operations areas. This list is updated yearly with Public Works and addressed as capital funds allow. Public Works continue to maintain these sections as per the requirements in Ontario Provincial Standards (OPS) and the City's level of service policy. It is estimated that the cost of spot repair on the road segments identified in Table 5 to be approximately **\$1,262,000**



Questions

