

TORONTO STAFF REPORT

July 4, 2006

To: Economic Development and Parks Committee

From: Brenda Librecz, General Manager, Parks, Forestry and Recreation

Subject: August 19, 2005 Storm Damage Update
(All Wards)

Purpose:

To report on damage to Parks, Forestry and Recreation infrastructure as a result of the August 19, 2005 storm and reallocate \$1,200,000.00 in funds within the approved 2006 Parks, Forestry and Recreation Capital Budget to undertake essential repairs in 2006.

Financial Implications and Impact Statement:

Current estimates place the cost of repairing the bridges, parking lots and trails damaged in the August 19, 2005 storm at \$4,735,967.00. This does not include repairs already undertaken or replacement or repair to other park features such as benches or drinking fountains that may have been washed away; or to other features or amenities that may have been damaged and not yet identified or inventoried. Of this \$4,735,967.00, \$1,000,000.00 relates to funds required for the removal of damaged and fallen trees from ravines and watercourses, which must be funded through future Operating Budget allocations. The balance relates to Capital items.

No funding was approved in either the 2006 Operating or 2006 Capital Budget to undertake storm damage repairs. No funding has been included for 2005 storm damage in the proposed 2007 – 2010 Capital Plan for Parks, Forestry and Recreation. To maintain the corporate debt target, reallocation and deferral of other planned projects within the Capital Plan would be required to accommodate this work. It is anticipated that storm damage impacts will be submitted for consideration during Budget Advisory Committee's review of the 2007 - 2011 Capital Plan and the 2007 Operating Budget.

The Parks Branch has identified two parks, Edwards Gardens and Highland Creek/Colonel Danforth Park, which have sustained extensive damage to bridges and stream embankments. A further 102 bridges and 168 different locations in parking lots and paths have been damaged and require repair. In light of the essential nature of these repairs, Parks, Forestry and Recreation are seeking authority to reallocate \$1,200,000.00 in funds within the approved 2006 Capital Budget

to undertake this work. Replacement of these funds will be requested in the 2007 Capital Budget submission. A chart setting out the total costs of the storm, expenditures to date and outstanding costs is contained in Attachment 1.

The Deputy City Manager and Chief Financial Officer has reviewed this report and concurs with the financial impact statement.

Recommendations:

It is recommended that:

- (1) funds in the amount of \$1,200,000.00 be reallocated within the approved 2006 Parks, Forestry and Recreation Capital Budget as set out in Attachment 2 to undertake essential repairs to damaged infrastructure in 2006;
- (2) the financial impacts of the storm related damage funding requests for 2007 be included in the 2007 – 2011 Capital Plan submission and the 2007 Operating Budget submission from Parks, Forestry and Recreation for consideration by BAC;
- (3) this report be forwarded to Policy and Finance Committee for consideration; and
- (4) the appropriate City Officials be authorized and directed to take the necessary action to give effect thereto.

Background:

On Friday August 19, 2005, a severe storm passed through the Greater Toronto Area. In a relatively short time span of two to three hours, rainfalls in excess of 100 millimetres were recorded at various Environment Canada and City of Toronto rain gauge stations throughout the City. The high rate of precipitation resulted in many flash floods of rivers, creeks and ravines, in which water quickly overflowed the stream banks. The high stream flows and large volumes of runoff, caused erosion of many watercourse banks, destroyed vegetation and damaged many structures in City parks and ravines.

Numerous bridges, paths and parking lots sustained damage. Debris hitting the bridges and erosion caused by rushing water affected the structural integrity of many of the bridges, with some bridges being washed away completely. Damage to parks was not just limited to bridges, parking lots and paths; hundreds of trees were downed or remain standing in unsafe conditions; playground locations had the base sand washed away, making the playground unsafe; drinking fountains and benches were washed away; and many riverbanks and sodded areas were ripped up or remain littered with the debris washed downstream.

Subsequently, the majority of the parks and facilities have been inspected, with all bridges, parking lots and paths undergoing detailed assessment and safety audits by consultants retained by the Parks, Forestry and Recreation Division at a cost of \$130,000.00. The audits, in the fall of 2005 and the spring of 2006, were carried out using the assessment protocol used in the

Divisional State of Good Repair Program which forms the basis for the development of the 5 - Year Capital Budget Program. The primary focus of the safety audits is to determine whether the features are structurally unsafe and should be closed until such time as repairs are implemented or whether they can be used safely in their current condition or after minor repairs are completed.

Damage to Morningside Park Service Yard in the Scarborough District was extensive and is estimated at \$3,000,000.00. Twelve service vehicles and grass cutting equipment were damaged. The flood, combined with the sewage that spilled into Highland Creek, damaged the office and storage area, ruining equipment, computers, furniture, and supplies, including ten skids of fertilizer.

This report identifies the type and cost of repairs carried out to date, provides estimates of the work that remains outstanding and prioritizes that work.

Comments:

Immediately after the storm, Parks, Forestry and Recreation began to inventory and assess the costs of repairing or replacing assets damaged or lost in the storm. The Division also began making repairs in 2005 where practical, using existing operating funds or funds available within existing Divisional blanket work order contracts. Using the templates developed by Finance, the Division, through the hiring of engineers to undertake detailed audits, started rolling up the costs of work done immediately after the storm, developing estimates of work to be done during the rest of 2005 and projecting costs extending into 2006. The total current assessment of costs necessary to repair the damage is \$8,760,101.00. This includes \$3,000,000.00 in Scarborough at the Morningside Yard, \$1,024,134.00 spent in 2005, \$3,735,967.00 in outstanding repairs, plus \$1,000,000.00 for forestry work.

The current outstanding repair costs of \$3,735,967.00 will be submitted as part of the 2007 Capital Budget. The costs of \$1,000,000.00 for forestry work to remove damaged trees will be submitted as part of the 2007 Operating Budget.

The reporting on the assessment of damage to parks infrastructure was delayed due to the necessity of completing detailed audits, re-checks in the spring of 2006 of an extensive amount of parkland to determine whether the winter conditions further impacted the damage, and waiting for responses regarding insurance claims.

The damage to the Morningside Yard was estimated at \$3,000,000.00. The majority of the damage was to the building and contents. Twelve service vehicles, including grass cutting equipment were damaged. Both the building and equipment are covered under the city insurance and is currently going through the claims process.

Immediately after the storm, Parks, Forestry and Recreation staff began implementing repairs necessary to eliminate situations where the health and safety of the public were at risk. Paths or trails that had eroded or washed out were filled and levelled to ensure that a firm surface was re-established. Debris was swept from paved paths that had not been damaged and both Parks and Forestry staff cleared fallen limbs and brush that blocked pathways. Where funds were available

in blanket work order contracts, paving was undertaken to restore a consistent trail surface. During the remaining four months of 2005 after the storm, staff spent \$1,024,134.00 to make full repairs where possible or temporary repairs where necessary.

There is currently \$3,735,967.00 in repair work remaining to 102 bridges, 168 different sections of paths, trails and parking lots, plus \$1,000,000.00 in Forestry work necessary to remove damaged and fallen trees from ravines and watercourses. Parks, Forestry and Recreation is working closely with Toronto Water to prioritize repairs and obtain the necessary approvals from the Toronto and Region Conservation Authority, Ministry of Natural Resources and the Department of Oceans and Fisheries.

Of the remaining \$4,735,967.00, Parks, Forestry and Recreation has prioritized work and identified \$1,200,000.00 in projects that need to be undertaken in 2006. The Kissing Bridge at Edwards Gardens, the abutments that support it and part of the connecting paths were washed out completely and need full replacement. The Kissing Bridge is one of the most popular bridges for wedding photography in the city and is fully booked annually. Restoring this site and photography location is the highest priority for the Division. The estimated total cost to replace the bridge, install abutments and repair the connecting paths is \$100,000.00.

One of the key pedestrian bridges at Highland Creek/Colonel Danforth Park was already undergoing improvements in 2005 as part of the approved Capital Program with funding of \$400,000.00. The storm did additional damage estimated at \$350,000.00. Completing the work started in 2005 is the second highest priority and will require an additional \$350,000.00 on top of the \$400,000.00 approved in 2005.

\$591,920.00 is necessary for minor repairs to 168 different locations on paths, trails and parking lots. The majority of this work includes placing fill material such as gravel or soil, compacting it and paving it to re-establish uninterrupted paved pathways or filling holes in parking lots.

Two other parks, Wilket Creek Park and G. Ross Lord Park also suffered damage to main roads and specific bridges and will require \$158,080.00 in repairs.

In light of the essential nature of these repairs, Parks, Forestry and Recreation are seeking authority to reallocate \$1,200,000.00 in funds within the approved 2006 Parks, Forestry and Recreation Capital Budget to undertake this work. Replacement of these funds will be requested in the 2007 Capital Budget. A chart with the total costs of the storm, expenditures to date and outstanding costs is contained in Attachment 1.

It is essential to understand that the costs set out in this report only address those repairs which have been identified by staff and assessed by the consultants. It is expected that additional damage will be found as the parks dry out and staff and the public gain access to the farther reaches or inaccessible parkland and ravines. In late 2005, Forestry staff had identified over 250 damaged trees that needed to be removed and it is anticipated that this number will grow as they inspect deeper into the ravines. Parks, Forestry and Recreation has identified \$3,735,967.00 in repairs for 2007 and will continue inventory damage and estimate costs of repair or replacement. Requests for funding to undertake this work will be submitted as part of the 2007 Capital Budget State of Good Repair Program Report.

Conclusions:

The August 19, 2005 storm caused \$8.76 Million in damages to bridges, parking lots and paths; vehicles and structures in Morningside Yard; and created blockages in the parks and streams as a result of fallen trees and debris washed downstream. Immediately after the storm, staff from Parks and Urban Forestry began working to eliminate hazards to pedestrians and making repairs to paths and bridges to make them safe for use by the public. Over \$1.0 Million has been spent to date from within existing approved budgets to carry out this work, \$3.0 Million has been covered by insurance, leaving \$4.74 Million in outstanding repairs.

Essential funding of \$1,200,000.00 is required in 2006 to replace two key bridges, one in Edwards Gardens and one in Highland Creek and undertake repairs to numerous bridges, paths and parking lots. Funding will be reallocated within the 2006 approved Capital Budget to fund the repairs. Additional funds will be requested in the 2007 – 2011 Capital Plan submission and the 2007 Operating Budget submission from Parks, Forestry and Recreation for consideration by BAC.

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List of Attachments:

Attachment 1: Summary of Damages
Attachment 2: 2006 Capital Budget Fund Reallocation Summary
Attachment 3: Bridge Damage Summary – August 19, 2005 Storm
Attachment 4: Summary of Damage to Trails and Parking Lots
Attachment 5: Pictures of August 19, 2005 Storm Damage

Attachment 1: Summary of Damages

LOCATION & FEATURE	TOTAL COST (\$)	COMMENTS (feature means trail, path, parking lot, stream edge)
TOTAL ESTIMATED DAMAGE	\$8,760,101	Total damage estimate for the Division
Morningside Yard building and equipment damage	3,000,000	covered by insurance
Repairs completed in 2005	1,024,134	Repairs undertaken in 2005 using operating funding or funding within approved Divisional blanket work orders
COSTS OF REPAIRS TO DATE	\$4,024,134	
Bridges city-wide	1,955,967.00	102 bridges in 48 different parks need work
Trails & Parking Lots	591,920	168 sections of trails and parking lots require repair
Edwards Gardens Bridges	1,430,000.00	Kissing bridge, vehicle bridge, abutments and path repairs, extensive stream bank stabilization
Highland Creek Bridge	350,000.00	Pedestrian bridge path repair
Forestry	1,000,000.00	Funds necessary to carry out removal of damaged and fallen trees from ravines and watercourses
REMAINING REPAIR COSTS	\$4,735,967	Necessary to fund all outstanding work
PRIORITY WORK FOR 2006		
Edwards Gardens - Kissing Bridge, abutments and connecting path; this is one of the most well-used bridges in the city for wedding photography.	100,000.00	The consultant has provided 3 different estimates for 3 different bridge lengths. The final length will be determined pending discussions with Toronto Water and TRCA. The highest estimate has been included in this summary. This estimate includes the bridge, stream bank stabilization, new footings, grading and path connections.
Highland Creek Bridge - this is a main connector bridge in the Highland Creek system and had prior Capital funds allocated to it, the storm has almost doubled the repairs necessary.	350,000.00	\$400K was budgeted for improvements to this bridge in 2005; the storm caused an additional \$350K in damage. Only the additional \$350K is included in this summary.
G. Ross Lord Park	100,000.00	Main entrance road unstable
Wilket Creek Park	12,000.00	Thomas J. Bata Trail washed out
	29,040.00	Bridge Number 3 washed out
	17,040.00	Main entrance roadway unstable
Trail and parking lot repairs	591,920	Repairs required to 168 sections of trail and parking lot city-wide
TOTAL COST 2006 PRIORITIES	\$1,200,000	Reallocated from approved 2006 Capital Budget
REMAINING FUNDING REQUIRED IN 2007 CAPITAL BUDGET	\$3,735,967	This funding is required in the 2007 Capital Budget to complete the remainder of repairs. It includes \$2.5M in outstanding repairs and the \$1.2M reallocated from within the Division's 2006 Capital Budget to undertake essential repairs.
2007 OPERATING BUDGET IMPACTS	\$1,000,000	This funding is required to carry out removal of damaged and fallen trees from ravines and watercourses.

Attachment 2: 2006 Capital Budget Fund Reallocation Summary

YEAR	Name of Project	WBS No.	Impact	2006 Approved Plan (\$)	Committed to date (\$)	Proposed funding to Storm (\$)
2005	Erosion Health & Safety Control	CPR124-35-04	Project will be cashflowed into 2007 to be completed	521,000	379,569	50,000
2005	CAMP (SGR) Tennis Courts & Sports Pads FY05	CPR118-35-02	Recent tender closings have reflected below anticipated pricing. Full impact wont be know untill all project have been tender	635,000	125,000	100,000
2006	Capital Planning Asset Management	CPR114-36-09	Fewer Audits will be conduct this year- no project impact	750,000	45,000	300,000
2006	311 Customer Service Strategy	CPR114-35-12	2006 Cashflow is \$1,500,000, reduction of \$150,000 will require additional Cashflow in 2007	1,500,000	0	200,000
2006	Golf Course City Wide	CPR126-36-02	Scarlett wood GC irrigation will be deferred to 2007	500,000	76	50,000
2006	CAMP (SGR) Trails & Pathways/Bridges FY2006	CPR122-36-01	Recent tender closings have reflected below anticipated pricing. Full impact wont be know until all project have been tender	1,000,000	0	100,000
2006	CAMP (SGR) Parking Lots FY2006	CPR118-36-02	Recent tender closings have reflected below anticipated pricing. Full impact wont be know until all project have been tender	1,250,000	48	100,000
2006	CAMP (SGR) ORC Facilities FY2006	CPR116-36-01	At Council on Dec 08 2006, \$700,00 was added to SGR, \$300 will be directed to Storm Damage	1,950,000	1,098,000	300,000
						\$1,200,000

Attachment 3: Bridge Damage Summary - August 19, 2005 Storm

District	Ward	Bridge ID	Location	Type	Date Inspected	Defect
WEST	1	043	BEAUMONDE HEIGHTS PARK	BRIDGE 1	18-Oct	Remove debris
WEST	1	038	NORTH HUMBER PARK	BRIDGE 3	11-Oct	Slope protection
WEST	1	201	NORTH HUMBER PARK	CULVERT BRIDGE 05	11-Oct	Clear Debris
WEST	1	201	NORTH HUMBER PARK	CULVERT BRIDGE 05	11-Oct	Repair pot hole
WEST	1	300	ROWNTREE MILLS PARK	NORTH BRIDGE	11-Oct	Slope protection
WEST	1	301	ROWNTREE MILLS PARK	SOUTH BRIDGE	11-Oct	Slope protection
WEST	2	048	SUMMERLEA PARK	SOUTH BRIDGE 1	19-Oct	Pave Trail
WEST	2	048	SUMMERLEA PARK	SOUTH BRIDGE 1	18-Oct	Slope Protect
WEST	2	175	WESTMOUNT PARK	PED. BRIDGE	13-Oct	repair approach
WEST	4	005	JAMES GARDENS PARK	EAST BRIDGE	3-Oct	NE Slope
WEST	4	025	LAMBTON WOODS PARK	BRIDGE 6	3-Oct	bridge has colapsed at s end
WEST	7	102	CHALKFARMS PARK	NORTH BRIDGE 1	18-Oct	Slope protect
WEST	7	103	CHALKFARMS PARK	SOUTH BRIDGE 2	18-Oct	N Slope protect
WEST	7	103	CHALKFARMS PARK	SOUTH BRIDGE 2	18-Oct	s slope protect
NORTH	8	297	DERRYDOWNS PARKLAND	NORTH PED. TWIN CUL. BRIDGE 1	18-Oct	Pave
NORTH	8	254	DERRYDOWNS PARKLAND	MIDDLE CUL. BRIDGE 2	18-Oct	Repair Gabions
NORTH	8	253	DERRYDOWNS PARKLAND	SOUTH PED. BRIDGE 3	18-Oct	Replace bridge
NORTH	9	292	DOWNSVIEW DELLS PARKLAND	VEH. CUL. BRIDGE 3	18-Oct	Slope protection
NORTH	9	271	HEATHROW PARK	SOUTH PED. CUL. BRIDGE 4	18-Oct	Pave
NORTH	9	270	HEATHROW PARK	SOUTH CUL. BRIDGE 5	18-Oct	slope protection
NORTH	9	269	HEATHROW PARK	SOUTH PED. CUL. BRIDGE 6	18-Oct	Remove debris
NORTH	9	274	HEATHROW PARK	SOUTH PED. CUL. BRIDGE 1	18-Oct	Pave
NORTH	9	274	HEATHROW PARK	SOUTH PED. CUL. BRIDGE 1	18-Oct	Remove debris
NORTH	9	295	NORTHWOOD PARKLAND	PED. BRIDGE 2	18-Oct	Remove debris
NORTH	9	295	NORTHWOOD PARKLAND	PED. BRIDGE 2	18-Oct	Scour under abutment
NORTH	9	295	NORTHWOOD PARKLAND	PED. BRIDGE 2	18-Oct	Slope protection
NORTH	10	286	G. ROSS LORD PARKLAND	NORTH PED. BRIDGE 6	12-Oct	Scour under S abutment
NORTH	10	286	G. ROSS LORD PARKLAND	NORTH PED. BRIDGE 6	12-Oct	Slope protection
NORTH	10	291	G. ROSS LORD PARKLAND	TWIN CUL. VEH. BRIDGE 1	12-Oct	North Slope
NORTH	10	291	G. ROSS LORD PARKLAND	TWIN CUL. VEH. BRIDGE 1	12-Oct	South Slope
NORTH	10	255	G. ROSS LORD PARKLAND	SOUTH WEST PED. BRIDGE 9	12-Oct	Replace bridge
WEST	12	267	NORTH PARK	SOUTH PED. CUL. BRIDGE 1	18-Oct	SE Slope Protection
WEST	12	267	NORTH PARK	SOUTH PED. CUL. BRIDGE 1	18-Oct	SW Slope Protection
SOUTH	13	224	HIGH PARK	SOUTH WEST CUL. BRIDGE 03	24-Oct	Pave
SOUTH	22	156	BELT LINEAR PARK	PED. BRIDGE 1 (MOORE PARK RAVINE)	20-Oct	Slope Protection
SOUTH	22	157	BELT LINEAR PARK	PED. BRIDGE 2	20-Oct	pave approach
NORTH	24	091	BAYVIEW VILLAGE PARK	PED. BRIDGE	12-Oct	Repair N Approach
NORTH	24	090	DUNCAN CREEK PARK	BRIDGE	12-Oct	Scour at Abutment
NORTH	24	339	ST. JOSEPH MORROW PARK/BESTVIEW PARK	VEH. BRIDGE	12-Oct	Slope protection
NORTH	25	059	DUNCAIRN PARK	CULVERT 4	19-Oct	loose barrier
NORTH	25	060	DUNCAIRN PARK	CULVERT 5	19-Oct	loose barrier
NORTH	25	063	EDWARDS GARDENS PARK	BRIDGE 2	4-Oct	east slope
NORTH	25	063	EDWARDS GARDENS PARK	BRIDGE 2	4-Oct	west abut gabian
NORTH	25	065	EDWARDS GARDENS PARK	BRIDGE 4	4-Oct	West Slope
NORTH	25	066	EDWARDS GARDENS PARK	BRIDGE 5	4-Oct	bridge is gone
NORTH	25	067	EDWARDS GARDENS PARK	BRIDGE 6	4-Oct	bridge is gone
NORTH	25	068	WILKET CREEK PARK	BRIDGE 1	4-Oct	s slope protect

NORTH	25	068	WILKET CREEK PARK	BRIDGE 1	4-Oct	South approach pave
NORTH	25	068	WILKET CREEK PARK	BRIDGE 1	4-Oct	South Abutment
NORTH	25	069	WILKET CREEK PARK	BRIDGE 2	4-Oct	Scour under both abutments
NORTH	25	070	WILKET CREEK PARK	BRIDGE 3	4-Oct	slope and abut prot both sides
NORTH	25	071	WILKET CREEK PARK	BRIDGE 4	5-Oct	Gabian
NORTH	25	071	WILKET CREEK PARK	BRIDGE 4	5-Oct	re-pave approach
NORTH	25	072	WILKET CREEK PARK	BRIDGE 5	5-Oct	repair barrier
NORTH	25	072	WILKET CREEK PARK	BRIDGE 5	5-Oct	re-pave approach
NORTH	25	073	WILKET CREEK PARK	BRIDGE 6	5-Oct	re-pave approaches
NORTH	25	073	WILKET CREEK PARK	BRIDGE 6	5-Oct	scour under E abutment
NORTH	25	074	WILKET CREEK PARK	BRIDGE 7	5-Oct	Scour under both abutments
NORTH	25	074	WILKET CREEK PARK	BRIDGE 7	5-Oct	re-pave approach
NORTH	25	097	WOODSWORTH GREENBELT	CULVERT BRIDGE	19-Oct	Pave Trail
SOUTH	28	101	LOWER DON PARKLANDS	BRIDGE	14-Oct	re-grade W approach
SOUTH	28	101	LOWER DON PARKLANDS	BRIDGE	14-Oct	Brackets Loose
SOUTH	31	149	TAYLOR CREEK PARK	PED. BRIDGE 04	4-Oct	Barrier
SOUTH	31	152	TAYLOR CREEK PARK	PED. BRIDGE 07	4-Oct	South Gabian
SOUTH	31	107	TAYLOR CREEK PARK	BRIDGE 01 AT CHARLES SAURIOL	4-Oct	Gabian
SOUTH	31	154	TAYLOR CREEK PARK	PED. BRIDGE 09	4-Oct	Erosion on approach
SOUTH	31	153	TAYLOR CREEK PARK	PED. BRIDGE 08	4-Oct	Erosion on approach
NORTH	33	098	EAST DON PARKLAND	SOUTH BRIDGE 4	12-Oct	Remove debris
NORTH	33	098	EAST DON PARKLAND	SOUTH BRIDGE 4	12-Oct	repair barrier
NORTH	33	098	EAST DON PARKLAND	SOUTH BRIDGE 4	12-Oct	Scour under abutment
NORTH	33	085	EAST DON PARKLAND	NORTH VEH. BRIDGE	12-Oct	Slope protection
NORTH	33	316	EAST DON PARKLAND	NORTH EAST BRIDGE 1	12-Oct	Remove debris
NORTH	33	316	EAST DON PARKLAND	NORTH EAST BRIDGE 1	12-Oct	repair barrier
NORTH	33	087	EAST DON PARKLAND	CULVERT BRIDGE	12-Oct	Re-pave trail
NORTH	34	092	BROOKBANKS PARK	MIDDLE BRIDGE 1	19-Oct	east slope
NORTH	34	092	BROOKBANKS PARK	MIDDLE BRIDGE 1	19-Oct	NW slope protect
NORTH	34	092	BROOKBANKS PARK	MIDDLE BRIDGE 1	19-Oct	SE Slope protect
NORTH	34	092	BROOKBANKS PARK	MIDDLE BRIDGE 1	19-Oct	W Abutment Undermined
NORTH	34	093	BROOKBANKS PARK	NORTH BRIDGE 2	19-Oct	Slopes
NORTH	34	061	LAURENTIDE PK. / THREE VALLEYS PARK	CULVERT	19-Oct	Pave Trail
EAST	35	137	ST. CLAIR RAVINE PARK	PED BRIDGE	6-Oct	repair barrier
EAST	37	106	BIRKDALE RAVINE PARK	PED. BRIDGE 2	6-Oct	replace W abutment
EAST	38	123	CEDARBROOK PARK	PED. BRIDGE 3	6-Oct	
EAST	38	125	CEDARGROVE PARK	PED BRIDGE	6-Oct	Abutment undermined
EAST	38	125	CEDARGROVE PARK	PED BRIDGE	6-Oct	Slope protection
EAST	38	135	HAGUE PARK	PED. BRIDGE 2	6-Oct	Slope protection
EAST	38	233	KNOB HILL PARK	MIDDLE PED. BRIDGE 2	6-Oct	Slope protection
EAST	39	138	SOUTH L'AMOREAUX PARK NORTH	BRIDGE 1	11-Oct	repair barrier
EAST	39	138	SOUTH L'AMOREAUX PARK NORTH	BRIDGE 1	11-Oct	Slope protection
EAST	39	251	TAM O SHANTER GOLF CLUB	MIDDLE PED. BRIDGE 2	11-Oct	Slope protection
EAST	40	244	TIMBERBANK PARK	PED. BRIDGE	11-Oct	Slope protection
EAST	42	235	MORNING VIEW RAVINE PARK	PED. BRIDGE	11-Oct	Approaches
EAST	43	120	BROOKS RD PARK	PED BRIDGE	11-Oct	W Abutment
EAST	43	114	MORNINGSIDE PARK	PED. BRIDGE 1	5-Oct	North slope gabians
EAST	43	115	MORNINGSIDE PARK	PED. BRIDGE 2	5-Oct	Repair N Approach
EAST	43	338	MORNINGSIDE PARK	VEH. BRIDGE	5-Oct	Replace S Barrier
EAST	43	338	MORNINGSIDE PARK	VEH. BRIDGE	5-Oct	Slope protection

EAST	44	112	COLONEL DANFORTH PARK	VEH. BRIDGE 1	5-Oct	repair barrier
EAST	44	113	COLONEL DANFORTH PARK	EAST PED BRIDGE 2 (UTSC COLLEGE AREA)	5-Oct	Replace bridge
EAST	44	116	COLONEL DANFORTH PARK	WEST PED. BRIDGE 3	5-Oct	Install Gabians on N Slope
EAST	44	116	COLONEL DANFORTH PARK	WEST PED. BRIDGE 3	5-Oct	Rebuild S Approach
EAST	44	116	COLONEL DANFORTH PARK	WEST PED. BRIDGE 3	5-Oct	Replace W Barrier
EAST	44	110	GLEN ROUGE PARK	BRIDGE	6-Oct	NW Slope
EAST	44	118	HIGHLAND CREEK PARK	SOUTH VEH. BRIDGE 2	6-Oct	Repave S Approach
EAST	44	118	HIGHLAND CREEK PARK	SOUTH VEH. BRIDGE 2	6-Oct	Slope protection

Attachment 4: Summary of Damage to Trails and Parking Lots

District	Ward	Park	Safety Defect Type
West	1	Colony Park	Asphalt Alligatoring and Pot Holes
West	1	Highfield Park	Asphalt Alligatoring
West	1	Smithfield Park	Asphalt Alligatoring
West	1	Humber Community Pool	Asphalt Alligatoring, Rutting
West	1	North Kipling Cc	Asphalt Ponding
West	1	Royal Clest Park	Asphalt Ponding, Rutting
West	1	Elmbank Cc	Asphalt Potholes
West	1	Kay Park	Asphalt Potholes
West	1	West Humber Parkland	Asphalt Potholes
West	1	Albion Arena & Rec Lot	Asphalt Potholes
West	1	Massey Grove Park	Asphalt Potholes
West	1	North Kipling Park	Asphalt Potholes
West	1	Thistleton Service Centre	Asphalt Potholes
West	1	Albion Cc	Asphalt Rutting
West	1	Albion Garden Park	Asphalt Rutting
West	1	Beaumonde Heights Park	Asphalt Rutting
West	1	Elmbank Cc	Asphalt Settlements
West	1	North Kipling Cc	Drainage curb damaged
West	1	Massey Grove Park	Exposed Man Hole
West	1	North Kipling Park	Granular Potholes
West	1	Kay Park	Manhole Erosion
West	1	Albion Garden Park	Trees Blown over
West	1	Gihon Spring Park	Trees Blown over
West	2	Sunny Dale Acres Parking Lot	Asphalt Edge Ravelling
West	2	Sunnydale Acres Park	Asphalt Potholes
West	2	The Elms Park	Asphalt Potholes
West	2	Humber Arboretum	Asphalt Potholes
West	2	Pine Point Arena	Asphalt Potholes
West	2	Pine Point Arena	Asphalt Potholes
West	2	Sunny Dale Acres Parking Lot	Asphalt Potholes
West	2	The Elms Park Lot	Asphalt Potholes
West	2	West Humber Parkland	Asphalt Potholes
West	2	Humber Arboretum	Clogged Culvert Outlet
West	2	Humber Arboretum	Embankments Washout
West	2	Summerlea Park	Granular Potholes
West	2	Summerlea Park Lot	Re-Grade Parking Lot
West	2	Rexdale Park	Swales/Ditches Blocked
West	2	Rexdale Park	Swales/Ditches Blocked
West	2	Humber Arboretum	Swales/Ditches Erosion
West	2	Summerlea Park	Trees Blown over
West	3	Neilson Park	Asphalt - Potholes
West	3	Bloordale Park South	Asphalt - Potholes
West	4	La Rose Park	Granular - Potholes
West	5	Spring Garden Park	Tree - Blown Over
West	6	Marie Curtis Lot	Asphalt Edge Ravelling
West	6	Marie Curtis Lot	Asphalt Potholes
West	6	Marie Curtis Park	Asphalt Potholes
West	6	Mariecurtis Lot 1	Asphalt Potholes
West	6	Mariecurtis Lot 1	Asphalt Rutting
West	6	Marie Curtis Lot	Granular Potholes
West	6	Marie Curtis Park	Granular Potholes
West	6	Mariecurtis Lot 1	Granular Potholes
West	6	Marie Curtis Park	Trees Blown over
West	7	Rowntree Mills Park	Asphalt Potholes
West	7	Rowntree Mills Park	Trees Blown over
North	8	Alness Park Yard (Lot1)	Asphalt Alligatoring, Cracking
North	8	Alness Park Yard (Lot2)	Asphalt Alligatoring, Cracking, Rutting
North	8	Sentinel Park Parking Lot	Asphalt Alligatoring, Potholes, Catchbasins Settlement
North	8	Hullmar Park	Asphalt and Concrete Settlements
North	8	Bratty Park	Asphalt Defects

North	8	Elm Park	Asphalt Defects
North	8	Elm Park Parking Lot	Asphalt Ponding, Interlock Settlement
North	8	Grandravine	Asphalt Rutting
North	8	Derrydowns Park	Embankments - Washouts
North	8	Derrydowns Park	Gabion Baskets Failed
North	8	Grandravine Cc Lot 1	Interlocking Settlement
North	8	Grandravine Cc Lot 2	Interlocking Settlement, Asphalt Defects
North	8	Edgeley Park	Trees Blown over
North	9	Downsview Dells Park	Trail Washed Out
North	9	Downsview Dells Park	Trees Blown over
North	10	Baycrest Park	Asphalt Alligatoring and Edge Ravelling
North	10	Clanton Park	Asphalt Alligatoring and Edge Ravelling
North	10	Irving W Chapley Com. Center	Asphalt Alligatoring, Catchbasins Settlement
North	10	Alisa Craig Parkette	Asphalt Alligatoring, Concrete Settlements
North	10	Irving W. Chapley Park	Asphalt Alligatoring, Edge Raveling
North	10	Mcallister Park	Asphalt Alligatoring, Edge Raveling
North	10	Robert Hicks Park	Asphalt Alligatoring, Edge Raveling
North	10	Earl Bales Park (Lot 2)	Asphalt Alligatoring, Potholes
North	10	Earl Bales Park (Lot 3)	Asphalt Alligatoring, Potholes
North	10	Earl Bales Park (Lot 4)	Asphalt Alligatoring, Potholes
North	10	G Ross Lord Park (Lot 4A)	Asphalt Alligatoring, Potholes
North	10	G Ross Lord Park (Lot 1)	Asphalt Alligatoring, Potholes, Cracking
North	10	G Ross Lord Park (Lot 4)	Asphalt Alligatoring, Potholes, Cracking
North	10	G Ross Lord Park (Lot 5)	Asphalt Alligatoring, Potholes, Cracking
North	10	Antiges Community Center	Asphalt Alligatoring, Potholes, Ponding
North	10	G Ross Lord Park (Lot 3)	Asphalt Alligatoring, Potholes, Ponding
North	10	Rockford Park	Asphalt Alligatoring, Potholes, Ponding
North	10	Rockford Park	Asphalt Alligatoring, Rutting
North	10	Esther Shiner Stadium	Asphalt Defects
North	10	Festival Park	Asphalt Defects
North	10	Harryetta Gardens	Asphalt Defects
North	10	Herbert Carnegie	Asphalt Defects
North	10	Earl Bales Park	Asphalt Potholes
North	10	Earl Bales Park (Lot 1)	Asphalt Potholes
North	10	Esther Shriner Stadium	Asphalt Settlement
North	10	G Ross Lord Park (Lot 2)	Concrete Cracking
North	10	Balmoral Park	Concrete cracking and Settlements
North	15	Dane Parkette	Asphalt Alligatoring
North	15	Prince Charles Park	Asphalt Alligatoring, Edge Raveling
North	15	Rajah Parkette	Asphalt Alligatoring, Edge Raveling
North	15	Varna Park	Asphalt Alligatoring, Edge Raveling
North	15	Caledonia Park	Asphalt Alligatoring, Potholes
North	15	Baycrest Arena	Asphalt Defects
North	15	Lawrence Heights Cc	Concrete Cracking, Curbs damage
North	24	Blue Ridge Park	Concrete - Settlements
North	25	Sunnybrook / Serena Gundy Park	Asphalt Alligatoring, Edge Raveling, pothole
North	25	Wilket Creek Park	Asphalt Settlement
North	25	Wilket Creek Park	Asphalt Settlement
North	25	Wilket Creek Park	Asphalt Washout
North	25	Wilket Creek Park	Asphalt Washout
North	25	Wilket Creek Park	Asphalt Washout
North	25	Wilket Creek Park	Asphalt Washout
North	25	Wilket Creek Park	Asphalt Washout
North	25	Sunnybrook Park	Trees Blown over
North	25	Wilket Creek Park	Trees Blown over
North	26	Ernest Thomas Seton Park	Asphalt Alligatoring and Pot Holes
South	27	David A. Balfour Park	Asphalt - Potholes
South	28	Lower Don Parklands	Asphalt - Potholes
South	28	Lower Don Parklands	Embankments - Washouts
South	28	Lower Don Parklands	Embankments - Washouts
South	28	Lower Don Parklands	Embankments - Washouts
South	28	Lower Don Parklands	Tree - Blown Over
South	29	Moore Park Ravine	Embankments - Washouts

South	31	Taylor Creek	Asphalt Potholes
South	31	Taylor Creek	Blocked Culvert
South	31	Taylor Creek	Catchbasins Settlement
South	31	Taylor Creek	Stairs - Washouts
South	32	Merrill Bridge Rd Park	Retaining Walls - Unstable
North	33	Linus Park	Asphalt - Potholes
North	33	Villaways Park	Embankments - Washouts
North	33	Villaways Park	Tree - Blown Over
North	34	Laurentide Park	Asphalt - Potholes
North	34	Laurentide Park	Retaining Walls - Unstable
North	34	Three Valleys Park	Tree - Blown Over
East	35	Byng Park	Asphalt - Potholes
East	35	Byng Park	Asphalt - Potholes
East	35	Warden Woods	Asphalt - Potholes
East	35	Warden Woods	Asphalt - Potholes
East	35	Eglinton Ravine	Embankments - Washouts
East	35	Warden Woods	Embankments - Washouts
East	35	Warden Woods	Stairs - Washouts
East	35	Warden Woods	Tree - Blown Over
East	35	Warden Woods	Tree - Blown Over
East	35	Warden Woods	Tree - Blown Over
East	35	Warden Woods	Tree - Blown Over
East	35	Warden Woods	Tree - Blown Over
East	35	Warden Woods	Tree - Blown Over
East	35	Warden Woods	Tree - Blown Over
East	35	Warden Woods	Tree - Blown Over
East	35	Warden Woods	Tripping hazard
East	36	Bluffer's Park	Tripping hazard
East	36	Bluffer's Park	Granular - Potholes
East	36	Bluffer's Park	Granular - Potholes
East	36	Bluffer's Park	Tree - Blown Over
East	36	Cliffside Ravine	Tree - Blown Over
East	36	Cudia Park	Tree - Blown Over
East	36	Cudia Park	Tree - Blown Over
East	36	Cudia Park	Tree - Blown Over
East	36	Cudia Park	Tree - Blown Over
East	36	Cudia Park	Tree - Blown Over
East	36	Cudia Park	Tree - Blown Over
East	37	Birkdale Ravine	Asphalt Defects
East	37	Birkdale Ravine	Asphalt Heaving
East	38	Churchill Heights Park	Asphalt - Potholes
East	38	Cedar Brook Park & Cc	Asphalt Defects, Interlocking Settlements
East	38	Hague Park	Asphalt Potholes
East	38	Thomson Memorial Park & Hydro Fields	Concrete Heaving
East	38	Hague Park	Embankments Washout
East	38	Amberdale	Tree - Blown Over
East	39	Sanwood Park	Asphalt - Ponding
East	39	Tam O'Shanter Golf Course	Asphalt - Potholes
East	39	Lamoreaux Park	Asphalt - Potholes
East	39	Tam O'Shanter Golf Course	Tree - Blown Over
East	39	Collingwood Park	Tree - Blown Over
East	40	Stephen Leacock Park	Asphalt - Potholes
East	40	Lynngate Park	Asphalt - Potholes
East	40	Stephen Leacock Park	Asphalt - Rutting
East	40	Inglewood Heights Park	Concrete - Cracking
East	40	Stephen Leacock Park	Concrete - Cracking
East	40	Inglewood Heights Park	Gates - Damaged
East	40	North Bridlewood Park	Overgrown vegetation
East	40	Stephen Leacock Park	Overgrown vegetation
East	40	Stephen Leacock Park	Overgrown vegetation
East	41	Brimley Woods	Embankments - Washouts
East	41	Brimley Woods	Tree - Blown Over
East	43	Guildwood Park	Asphalt - Potholes
East	43	Guildwood Park	Asphalt - Potholes

East	43	Guildwood Park	Asphalt - Potholes
East	43	Morningside Park	Asphalt - Potholes
East	43	Morningside Park	Concrete Washouts
East	43	Morningside Park	Embankments - Washouts
East	43	Guildwood Park	Granular - Potholes
East	43	Morningside Park	Granular - Potholes
East	43	Galloway Road Park	Tree - Blown Over
East	43	Guildwood Park	Tree - Blown Over
East	43	Morningside Park	Tree - Blown Over
East	43	South Marine	Tree - Blown Over
East	43	South Marine	Tree - Blown Over
East	44	Colonel Danforth Park	Asphalt - Potholes
East	44	Colonel Danforth Park	Asphalt - Potholes
East	44	Colonel Danforth Park	Asphalt - Potholes
East	44	Colonel Danforth Park	Asphalt - Potholes
East	44	Deanpark Walkway	Asphalt - Potholes
East	44	Deanpark Walkway	Asphalt - Potholes
East	44	Deanpark Walkway	Asphalt - Potholes
East	44	East Point Park	Asphalt - Potholes
East	44	Glen Rouge Campground	Asphalt - Potholes
East	44	Colonel Danforth Park	Asphalt Washout
East	44	Colonel Danforth Park	Asphalt Washout
East	44	Colonel Danforth Park	Embankments - Washouts
East	44	Colonel Danforth Park	Embankments - Washouts
East	44	Colonel Danforth Park	Embankments - Washouts
East	44	Deekshill Park	Embankments - Washouts
East	44	Bramber Woods Park	Granular - Potholes
East	44	East Point Park	Granular - Potholes
East	44	Glen Rouge Campground	Granular - Potholes
East	44	Glen Rouge Campground	Granular - Potholes
East	44	Glen Rouge Campground	Granular - Potholes
East	44	Rouge Beach Park	Granular - Potholes
East	44	Rouge Beach Park	Granular - Potholes
East	44	Rouge Beach Park	Granular - Potholes
East	44	Glen Rouge Campground	Stairs - Washouts
East	44	Glen Rouge Campground	Stairs - Washouts
East	44	Glen Rouge Campground	Stairs - Washouts
East	44	Glen Rouge Campground	Stairs - Washouts
East	44	Colonel Danforth Park	Tree - Blown Over
East	44	Glen Rouge Campground	Tree - Blown Over
East	44	Glen Rouge Campground	Tree - Blown Over
East	44	Glen Rouge Campground	Tree - Blown Over
East	44	Janellan Park & Ravine	Tree - Blown Over