

## CALGARY TREE DISASTER 2014 RESPONSE PHASE FINAL UPDATE

### Timelines of Phases

#### **Phase 1: Response (2014 September 9 to 2015 January 31) – Completed**

- 2014 September 8 to 10 – 28.2 cm of snow (most in 130 years before fall equinox)
- 2014 September 11 – 100 traffic signals restored
- Several days – 74,000 customers without power restored
- 2014 September 17 – EOC closed
- 2014 October 17 – Initial debris cleanup along streets and alleys in all communities completed
- 2015 January 31 – Complete tree hazard assessment and high-risk mitigation

#### **Phase 2: Recovery (2015 Q1 to 2018 Q4) – In progress**

- Remove dead (beyond recovery) trees
- Improve tree health and survival rates (corrective pruning)
- Community engagement and education
- Build resiliency for future weather events

#### **Phase 3: Restoration (2015 Q2 to 2018 Q4) – In progress**

- Replant trees lost
- Add tree species diversity to limit impact of pests and diseases

### Impact of storm

Measure	Total for Event
311 Tree Emergency SRs total September 8 to January 31 (2014 versus 2013)	10,142 Service Requests (SRs) – 2014 469 Service Requests (SRs) – 2013
Priority-1 overhead street tree hazards	14,531 trees
Debris removed	26 million kilograms
Trees: 500,000 manicured public trees 1.5 million private manicured trees	50 per cent of all trees damaged
Tree biomass lost from manicured areas	12-20 per cent estimate
Staff and Contractors involved	615 people (2014 September 19)
Total contracted hours	12,620 contract hours
Total cost for Response phase	\$23 million
Regular work	4.5 years of regular work in five months

**Response Phase Actuals (as of 2014 December 31)**

City of Calgary Business Unit	Incremental	Regular	Total
Parks (Including Water Services incremental)	\$ 12,200,000	\$ 2,200,000	\$ 14,400,000
Waste & Recycling Services	\$ 4,000,000	\$ 350,000	\$ 4,350,000
Roads	\$ 1,900,000	\$ 850,000	\$ 2,750,000
Fire (and Calgary Emergency Management Agency)	\$ 160,000	\$ -	\$ 160,000
Community & Neighbourhood Services	\$ 150,000	\$ -	\$ 150,000
Customer Service & Communications	\$ 90,000	\$ -	\$ 90,000
Public Safety Communications	\$ 30,000	\$ -	\$ 30,000
Recreation	\$ 30,000	\$ 120,000	\$ 150,000
Fleet Services	\$ 30,000	\$ -	\$ 30,000
Infrastructure & Information Services	\$ 20,000	\$ -	\$ 20,000
Corporate Properties & Buildings	\$ 20,000	\$ -	\$ 20,000
Planning & Development	\$ 10,000	\$ -	\$ 10,000
Water Services (regular only)	\$ -	\$ 40,000	\$ 40,000
Contingency (unallocated costs)	\$ 360,000	\$ 440,000	\$ 800,000
<b>Total</b>	<b>\$ 19,000,000</b>	<b>\$ 4,000,000</b>	<b>\$ 23,000,000</b>

**Business units, departments, partners and companies involved (Sample)**

Internal	External
Animal & Bylaw Services	Alberta Environment and Sustainable Resource ESRD (Alberta Forestry + 150 people)
Calgary Emergency Management Agency (CEMA)	Canadian Task Force 2
Community & Neighbourhood Services - City Links	City of Edmonton (Four Crews)
Customer Service & Communications	Hauling and Trucking Companies
Finance & Supply	Tree Care Companies:
Fleet Services	<ul style="list-style-type: none"> <li>• ArborCare Tree Service</li> <li>• Arbor-Tech Tree Care</li> <li>• Asplundh Tree Care</li> <li>• Bushwacker Tree Service</li> <li>• Davey Tree Care of Canada</li> <li>• Precise Tree Pruning</li> <li>• Rossco's Tree Service</li> <li>• Your Tree Doctor</li> </ul>
Human Resources	Waste Removal Company
Infrastructure & Information Services	
Law	
Parks	
Recreation	
Roads	
Waste & Recycling Services	
Water Services	