

# Traffic Engineering



**Municipal  
Manager**

**Community  
Development**

**Public Works**

**Traffic  
Engineering**

## Traffic Engineering

### Description

The Traffic Engineering Department promotes and ensures safe and efficient transportation. Responsibilities encompass the day-to-day operation of Anchorage's 277 traffic signals and 68,000 street signs. Traffic Engineering provides services that move people and goods on city roads and pedestrian systems. We focus on addressing neighborhood traffic concerns and operations that maximize public safety.

### Division Goals that Contribute to Achieving the Mayor's Mission:



**Economic Recovery – Build a city that attracts and retains a talented workforce, is hospitable to entrepreneurs and business owners, provides a strong environment for economic growth, attract new and innovative industries to Anchorage, and expand the tourism opportunities of Southcentral Alaska.**

- Continuous improvement in the safe and efficient movement of people and goods.



**Exemplary Municipal Operations – Improve the efficiency and effectiveness of Municipal operations to deliver services faster and better.**

- Timely investigation and response to community traffic inquiries.
- Traffic operation improvements that maximize transportation safety and system efficiency.

## Traffic Engineering Department Summary

	2021 Actuals	2022 Revised	2023 Approved	23 v 22 % Chg
<b>Direct Cost by Division</b>				
TR Traffic Engineering	5,954,316	5,869,172	6,067,957	3.39%
<b>Direct Cost Total</b>	<b>5,954,316</b>	<b>5,869,172</b>	<b>6,067,957</b>	<b>3.39%</b>
<b>Intragovernmental Charges</b>				
Charges by/to Other Departments	1,688,738	1,486,814	1,553,406	4.48%
<b>Function Cost Total</b>	<b>7,643,055</b>	<b>7,355,986</b>	<b>7,621,363</b>	<b>3.61%</b>
Program Generated Revenue	(1,805,713)	(1,530,698)	(1,530,545)	(0.01%)
<b>Net Cost Total</b>	<b>5,837,341</b>	<b>5,825,288</b>	<b>6,090,818</b>	<b>4.56%</b>
<b>Direct Cost by Category</b>				
Salaries and Benefits	4,526,645	4,475,046	4,604,626	2.90%
Supplies	716,223	853,789	933,789	9.37%
Travel	-	4,861	4,861	-
Contractual/Other Services	565,429	369,799	359,201	(2.87%)
Debt Service	140,101	140,597	140,400	(0.14%)
Equipment, Furnishings	5,919	25,080	25,080	-
<b>Direct Cost Total</b>	<b>5,954,316</b>	<b>5,869,172</b>	<b>6,067,957</b>	<b>3.39%</b>
<b>Position Summary as Budgeted</b>				
Full-Time	28	26	27	3.85%
Part-Time	4	4	4	-
<b>Position Total</b>	<b>32</b>	<b>30</b>	<b>31</b>	<b>3.33%</b>

**Traffic Engineering  
Reconciliation from 2022 Revised Budget to 2023 Approved Budget**

	Direct Costs	Positions		
		FT	PT	Seas/T
<b>2022 Revised Budget</b>	5,869,172	26	-	4
<b>Debt Service Changes</b>				
- General Obligation (GO) Bonds	(197)	-	-	-
<b>Changes in Existing Programs/Funding for 2023</b>				
- Salaries and benefits adjustments	(33,731)	-	-	-
- Paint and Sign Shop operating supplies cost increases	80,000	-	-	-
- Fleet adjustments	(10,598)	-	-	-
<b>2023 Continuation Level</b>	<b>5,904,646</b>	<b>26</b>	<b>-</b>	<b>4</b>
<b>Transfers by/to Other Departments</b>				
- Transfer Engineering Tech IV position from Planning	163,311	1	-	-
<b>2023 Approved Budget</b>	<b>6,067,957</b>	<b>27</b>	<b>-</b>	<b>4</b>

**Traffic Engineering  
Division Summary  
TR Traffic Engineering**

(Fund Center # 788000, 789000, 781000, 787000, 785000, 786000, 781079)

	2021 Actuals	2022 Revised	2023 Approved	23 v 22 % Chg
<b>Direct Cost by Category</b>				
Salaries and Benefits	4,526,645	4,475,046	4,604,626	2.90%
Supplies	716,223	853,789	933,789	9.37%
Travel	-	4,861	4,861	-
Contractual/Other Services	565,429	369,799	359,201	(2.87%)
Equipment, Furnishings	5,919	25,080	25,080	-
<b>Manageable Direct Cost Total</b>	<b>5,814,215</b>	<b>5,728,575</b>	<b>5,927,557</b>	<b>3.47%</b>
Debt Service	140,101	140,597	140,400	(0.14%)
Depreciation/Amortization	-	-	-	-
<b>Non-Manageable Direct Cost Total</b>	<b>140,101</b>	<b>140,597</b>	<b>140,400</b>	<b>(0.14%)</b>
<b>Direct Cost Total</b>	<b>5,954,316</b>	<b>5,869,172</b>	<b>6,067,957</b>	<b>-</b>
<b>Intragovernmental Charges</b>				
Charges by/to Other Departments	1,688,738	1,486,814	1,553,406	4.48%
<b>Function Cost Total</b>	<b>7,643,055</b>	<b>7,355,986</b>	<b>7,621,363</b>	<b>3.61%</b>
<b>Program Generated Revenue by Fund</b>				
Fund 101000 - Areawide General	1,805,713	1,530,698	1,530,545	(0.01%)
<b>Program Generated Revenue Total</b>	<b>1,805,713</b>	<b>1,530,698</b>	<b>1,530,545</b>	<b>(0.01%)</b>
<b>Net Cost Total</b>	<b>5,837,341</b>	<b>5,825,288</b>	<b>6,090,818</b>	<b>4.56%</b>

**Position Summary as Budgeted**

Full-Time	28	26	27	3.85%
Part-Time	4	4	4	-
<b>Position Total</b>	<b>32</b>	<b>30</b>	<b>31</b>	<b>3.33%</b>

**Traffic Engineering  
Division Detail  
TR Traffic Engineering**

(Fund Center # 788000, 789000, 781000, 787000, 785000, 786000, 781079)

	2021 Actuals	2022 Revised	2023 Approved	23 v 22 % Chg
<b>Direct Cost by Category</b>				
Salaries and Benefits	4,526,645	4,475,046	4,604,626	2.90%
Supplies	716,223	853,789	933,789	9.37%
Travel	-	4,861	4,861	-
Contractual/Other Services	565,429	369,799	359,201	(2.87%)
Equipment, Furnishings	5,919	25,080	25,080	-
<b>Manageable Direct Cost Total</b>	<b>5,814,215</b>	<b>5,728,575</b>	<b>5,927,557</b>	<b>3.47%</b>
Debt Service	140,101	140,597	140,400	(0.14%)
<b>Non-Manageable Direct Cost Total</b>	<b>140,101</b>	<b>140,597</b>	<b>140,400</b>	<b>(0.14%)</b>
<b>Direct Cost Total</b>	<b>5,954,316</b>	<b>5,869,172</b>	<b>6,067,957</b>	<b>3.39%</b>
<b>Intragovernmental Charges</b>				
Charges by/to Other Departments	1,688,738	1,486,814	1,553,406	4.48%
<b>Program Generated Revenue</b>				
404220 - Miscellaneous Permits	26,462	24,000	24,000	-
405030 - SOA Traffic Signal Reimbursement	1,554,932	1,420,440	1,420,440	-
406030 - Landscape Plan Review Pmt	5,847	12,000	12,000	-
406625 - Reimbursed Cost-NonGrant Funded	100,244	71,100	71,100	-
408380 - Prior Year Expense Recovery	2,904	100	100	-
408390 - Insurance Recoveries	115,324	2,000	2,000	-
460030 - Premium on Bond Sales	-	1,058	905	(14.46%)
<b>Program Generated Revenue Total</b>	<b>1,805,713</b>	<b>1,530,698</b>	<b>1,530,545</b>	<b>(0.01%)</b>
<b>Net Cost</b>				
Direct Cost Total	5,954,316	5,869,172	6,067,957	3.39%
Charges by/to Other Departments Total	1,688,738	1,486,814	1,553,406	4.48%
Program Generated Revenue Total	(1,805,713)	(1,530,698)	(1,530,545)	(0.01%)
<b>Net Cost Total</b>	<b>5,837,341</b>	<b>5,825,288</b>	<b>6,090,818</b>	<b>4.56%</b>

**Position Detail as Budgeted**

	2021 Revised		2022 Revised		2023 Approved	
	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
Assistant Traffic Engineer II	3	-	2	-	2	-
Associate Traffic Engineer	3	-	3	-	3	-
Electronic Foreman	1	-	1	-	1	-
Electronic Technician Leadman	2	-	2	-	2	-
Engineering Technician III	1	-	1	-	1	-
Engineering Technician IV	3	-	2	-	3	-
Junior Administrative Officer	1	-	1	-	1	-
Municipal Traffic Engineer	1	-	1	-	1	-
Paint & Sign Foreman	1	-	1	-	1	-
Paint & Sign Leadman	1	-	1	-	1	-
Paint & Sign Technician I	-	4	-	4	-	4

2023 Approved General Government Operating Budget

**Position Detail as Budgeted**

	2021 Revised		2022 Revised		2023 Approved	
	<u>Full Time</u>	<u>Part Time</u>	<u>Full Time</u>	<u>Part Time</u>	<u>Full Time</u>	<u>Part Time</u>
Paint & Sign Technician II	2	-	2	-	2	-
Paint & Sign Technician III	2	-	2	-	2	-
Senior Electronic Technician	6	-	6	-	6	-
Technical Assistant	1	-	1	-	1	-
<b>Position Detail as Budgeted Total</b>	<b>28</b>	<b>4</b>	<b>26</b>	<b>4</b>	<b>27</b>	<b>4</b>

## Traffic Engineering Operating Grant and Alternative Funded Programs

Program	Fund Center	Award Amount	Expected Expenditures Thru 12/31/2022	Expected Expenditures in 2023	Expected Balance at End of 2023	Personnel			Program Expiration
						FT	PT	T	
<b>AMATS: Traffic Control Signalization 2019-2021</b> (State Grant - Revenue Pass Thru) Updated signal timing plans to address intersection congestion and improving air quality.		994,190	890,016	104,174	-	-	-	-	Mar-22
<b>AMATS: Traffic Counts 2021-2023</b> (State Grant-Revenue Pass Thru) Collect, input, analyze and perform quality assurance for information pertaining to various pedestrian and vehicular volumes, crashes, and traffic studies.		596,659	327,120	269,539	-	-	-	-	Mar-23
<b>Total Grant and Alternative Operating Funding for Department</b>		<b>1,590,849</b>	<b>1,217,136</b>	<b>373,713</b>	-	-	-	-	
<b>Total General Government Operating Direct Cost for Department</b>				<b>6,067,957</b>		<b>27</b>	<b>4</b>	-	
<b>Total Operating Budget for Department</b>				<b>6,441,670</b>		<b>27</b>	<b>4</b>	-	



---

## **Traffic Engineering Department**

*Anchorage: Performance. Value. Results.*

---

### **Mission**

Promote safe and efficient area-wide transportation that meets the needs of the community and the Anchorage Municipal Traffic Code requirements.

### **Direct Services**

- Design, operate and maintain the Anchorage Traffic Signal System.
- Design and maintain the Anchorage traffic control devices (signage/markings).
- Provide the necessary transportation data to support the core services.
- Provide traffic safety improvements in accordance with identified traffic safety issues.
- Provide traffic review of development plans and building permits.

### **Accomplishment Goals**

- Continuous improvement in the safe and efficient movement of people and goods.
- Timely investigation and response to community traffic inquiries and permit submittals.
- Traffic operation improvements that maximize transportation safety and system efficiency.

### **Performance Measures**

Progress in achieving goals shall be measured by:

- Percent of failed signal detectors repaired within 48 hours of notification.
- Percent of damaged stop Signs repaired/replaced within 2 hours of notification.
- Percent of building permits reviewed within 10 working days of submittal.

---

## Traffic Engineering Department

*Anchorage: Performance. Value. Results.*

---

### **Measure #1: Percent of failed signal detectors repaired within 48 hours of notification**

#### **Type**

Safety

#### **Accomplishment Goal Supported**

Maintain traffic signal efficiency and roadway capacity by ensuring that traffic signals operations are functioning properly within 48 hours 90% of the time.

#### **Definition**

This measure reports the percentage of failed signal detectors that are repaired within 48 hours of notification of failure.

#### **Data Collection Method**

The data will be collected by tracking work orders developed through use of a failed signal detector report and reports from outside sources such as APD and the public.

#### **Frequency**

Monthly

#### **Measured By**

The data will be collected and maintained by the Electronics Foreman of the Signal Electronics Section in an Excel spreadsheet. The total number of failed signal detector reports and the number of repairs that are performed within 48 hours will be recorded.

#### **Reporting**

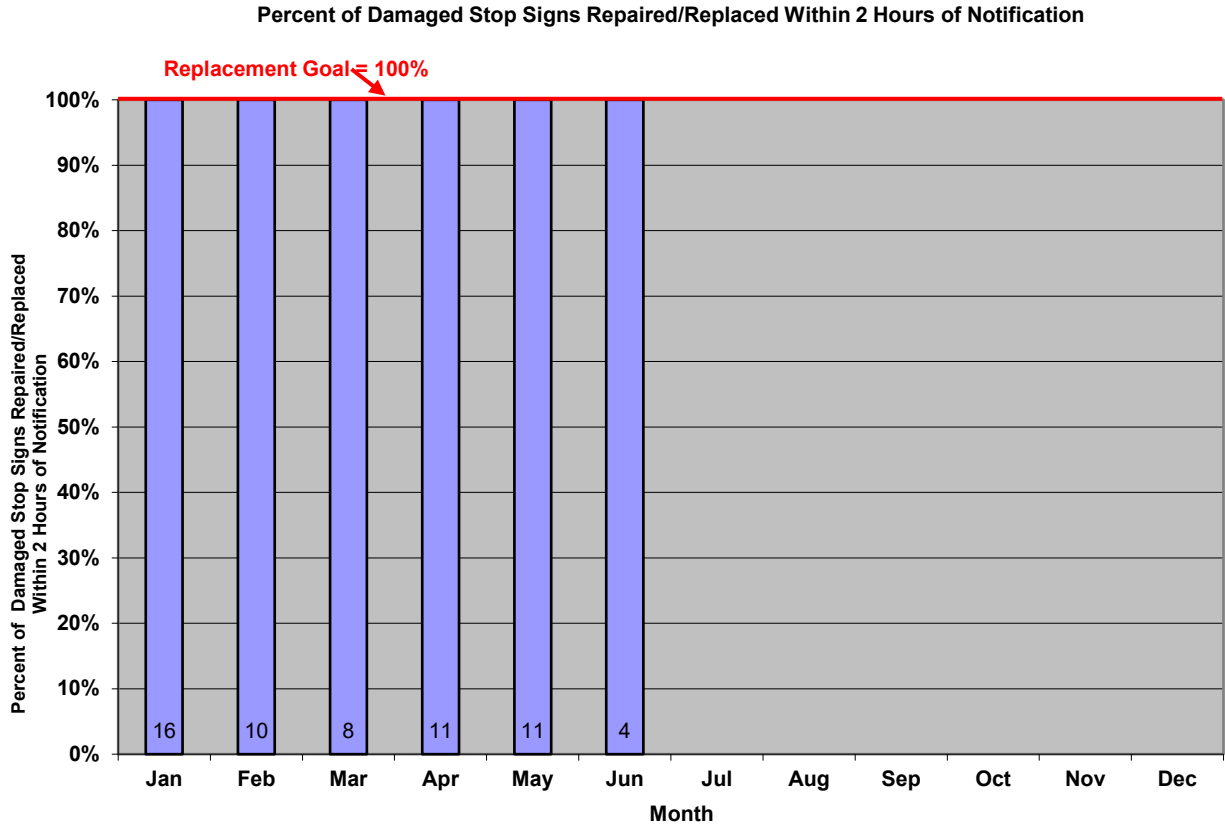
The data collected by the Traffic Engineer will display the information both numerically and graphically. A status report will be generated monthly.

#### **Used By**

This information will be used by Traffic to evaluate department/division budget and all involved personnel for tracking purposes, resource management, and decision making at all levels. The information will help the Traffic Engineer assess the adequacy of staffing levels in the Signal Electronics Section to maintain efficient and effective repair of the traffic signal system.

**Measure #1: Percent of failed signal detectors repaired within 48 hours of notification**

2022



---

## Traffic Engineering Department

*Anchorage: Performance. Value. Results.*

---

<b>Measure #2: Percent of damaged stop Signs repaired/replaced within 2 hours of notification</b>
---

### Type

Safety and Efficiency

### Accomplishment Goal Supported

Ensures punctual responses to damaged stop signs throughout our road system. Goal is 100% of the time.

### Definition

This measure reports the percentage of signs replaced and the amount of time it takes to get them installed from the time the Traffic Department is notified.

### Data Collection Method

The data will be collected spreadsheets and tracking of hours worked by staff.

### Frequency

Monthly

### Measured By

The data will be collected and maintained by the Foreman of the Paint and Sign Section in an Excel spreadsheet. The spreadsheet will calculate the percentage of signs repaired/replaced based and the amount of time elapsed from report to completion.

### Reporting

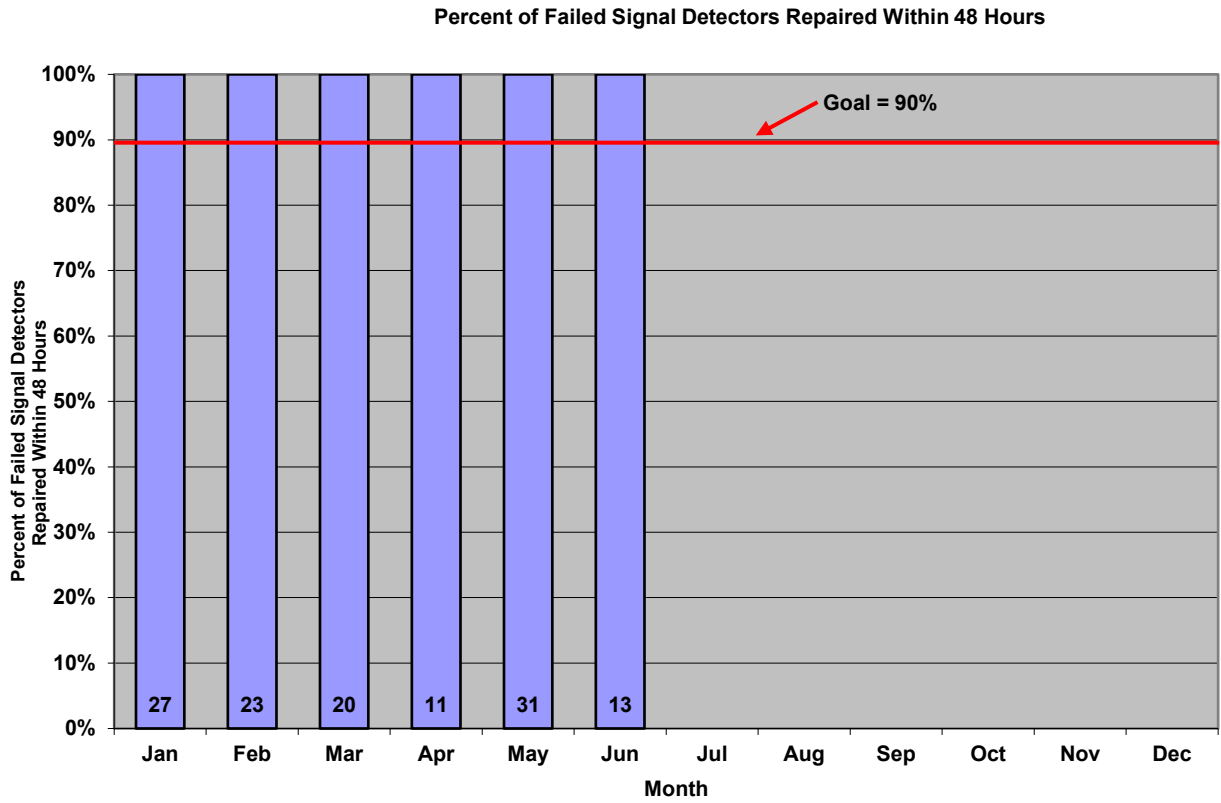
The data collected in the Excel spreadsheet will display the information both numerically and graphically. A status report will be generated monthly.

### Used By

This information will be used by Traffic to evaluate their annual department/division budget and all involved personnel for tracking purposes, resource management, and decision making at all levels. The information will help the Traffic Engineer assess the adequacy of staffing levels in the Paint and Sign Section to provide timely repairs.

**Measure #2: Percent of damaged stop signs repaired/replaced within 2 hours of notification**

2022



---

## Traffic Engineering Department

*Anchorage: Performance. Value. Results.*

---

### **Measure #3: Percent of building permits reviewed within 10 working days of submittal**

#### **Type**

Efficiency

#### **Accomplishment Goal Supported**

Ensures timely reviews and/or approvals of building permits 90% of the time.

#### **Definition**

This measure reports the percentage of building permit reviews completed by the Traffic Safety Division within 10 working days of submittal.

#### **Data Collection Method**

The data will be tracked using the Infor/Hanson permitting system.

#### **Frequency**

Monthly

#### **Measured By**

The data will be collected and maintained by the administrative staff of the Traffic Department in an Excel spreadsheet. The spreadsheet will calculate the percentage of building permits that were reviewed within 10 working days.

#### **Reporting**

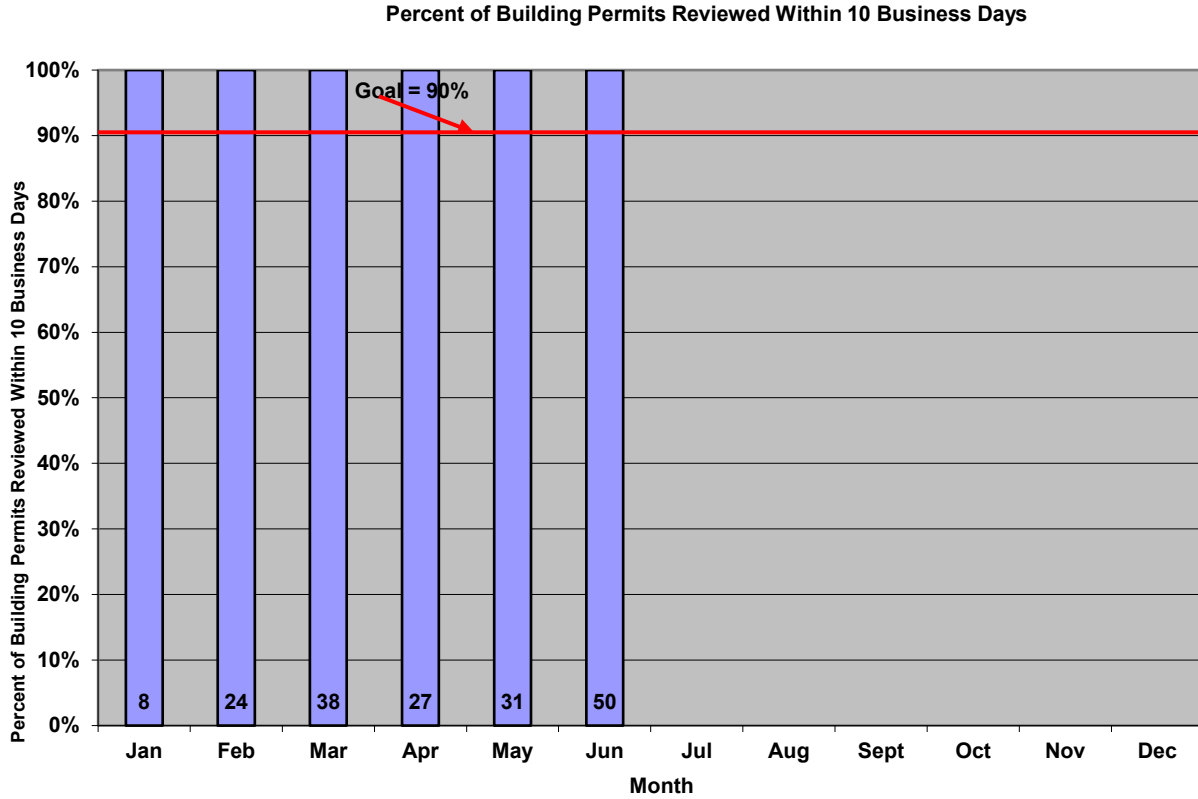
The data collected in the Excel spreadsheet will display the information both numerically and graphically. A status report will be generated monthly.

#### **Used By**

This information will be used by Traffic to evaluate their annual department/division budget and all involved personnel for tracking purposes, resource management, and decision making at all levels. The information will help the Traffic Engineer assess the adequacy of staffing levels in the Traffic Safety Division to provide timely reviews of building permits.

**Measure #3: Percent of building permits reviewed within 10 working days of submittal**

2022



**PVR Measure WC: Managing Workers' Compensation Claims**

Reducing job-related injuries is a priority for the Administration by ensuring safe work conditions and safe practices. By instilling safe work practices, we ensure not only the safety of our employees but reduce the potential for injuries and property damage to the public. The Municipality is self-insured and every injury poses a financial burden on the public and the injured worker's family. It just makes good sense to WORK SAFE.

Results are tracked by monitoring monthly reports issued by the Risk Management Division.

