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Section 1: Executive Summary

Most Significant Impact Events

Planned Event		
Date: 3/18, 3/25	Location: Family Arena	Event Detail: Initial mass vaccination event hosted at Family Arena without traffic control plans that caused 1.6-mile and 1.1-mile backups SB and NB on Arena Pkwy, respectively. Subsequently met with SCC DPH, MONG, and FA staff to develop event plan and traffic control plan to mitigate backups from future mass vaccination event’s being held at Family Arena.
Unplanned Event		
Date: 1/13, AM 1/27, 2/10 full	Location: MO 370 eo Elm St/ New Town Blvd Countywide	Event Detail: Overturned tractor-trailer crash involving fire MO 370 WB before Elm/ New Town during AM peak closing both directions of freeway. Traffic diverted at Lakeside Park and MO 94; diversion plans enabled from Lakeside Truman at 370 to Cave Springs Mexico and MO 94 at 370 to Little Hills Expwy. Winter weather conditions led to several incidents and slowdowns across the County throughout the full day. Signal timings adjusted at various interchanges and along various corridors to deal with diverted traffic and poor conditions caused by incidents winter weather.

Operator Summary

First Quarter 2021 had a **total of 172 incidents** impacting mainlines of freeways and major arterials within St Charles County. Of these incidents, **95 occurred during the weekday commuter peak times**. The GGL operator performed signal timing adjustments to facilitate diversions and **mitigate congestion and backups for 16 of these incidents**.









Top 5 Arterial Congestion Locations – January-March 2020 vs. 2021









	Arterial Congestion Locations 2020	Base Impact	Average Queue Length (miles)	Average Daily Duration	Total duration
1	WB Rt. 94 @ I-70	20,758	1.21	3 h 28 m	13 d 7 h 43 m
2	NB Rt. A @ I-70	19,020	0.16	23 h 26 m	89 d 20 h 9 m
3	NB S. 5t St. @ I-70	18,667	0.33	10 h 12 m	39 d 2 h 13 m
4	NB Jungermann Rd @ MO 94	18,145	0.34	9 h 40 m	37 d 2 h 27 m
5	WB Mexico Rd @ Cave Springs	16,945	0.30	10 h 4 m	38 d 14 h 33 m

	Arterial Congestion Locations 2021	Base Impact	Average Queue Length (miles)	Average Daily Duration	Total duration
1	NB Rt. A @ I-70	14,954	0.14	23 h 11 m	87 d 21h 50 m
2	WB Mexico Rd @ Cave Springs	11,126	0.30	6 h 47 m	25 d 17 h 39 m
3	SB Wentzville Pkwy. @ Pearce Blvd.	6,943	0.15	12 h 48 m	48 d 13 h 30 m
4	NB S. 5t St. @ I-70	6,879	0.34	3 h 47 m	14 d 8 h 33 m
5	NB Mid Rivers Mall Dr @ Central School Rd	6,634	0.40	3 h 10 m	12 d 1 h 9 m

Source: RITIS with HERE probe speed data for major arterial corridors only for all days. Locations ranked on 'Base Impact': the aggregation of queue length over time for segments ending at noted location in mile minutes.

Section 2: System Status Update

Device Type	No.		% Reliable		Trend
	Last	This	Last	This	
 Signals Communicating on TCS	342	348	98%	99%	
 CCTV's working	151	153	95%	96%	
 Bluetooth Devices Reporting	77	75	73%	71%	
 Intersections on TDMS	124	128	81%	83%	

Device Type	No.		% Reliable		Trend
	Last	This	Last	This	
 Cellular & Radio Devices	48	48	92%	92%	
 DMS Boards	3	3	100%	100%	
 Traffic Count Stations	9	0	100%	0%	
 Fiber Optic Cable	63.0 mi	63.0 mi	100%	100%	

GGL Device Efforts

Added and reconfigured intersections to upload counts in MS2 TDMS

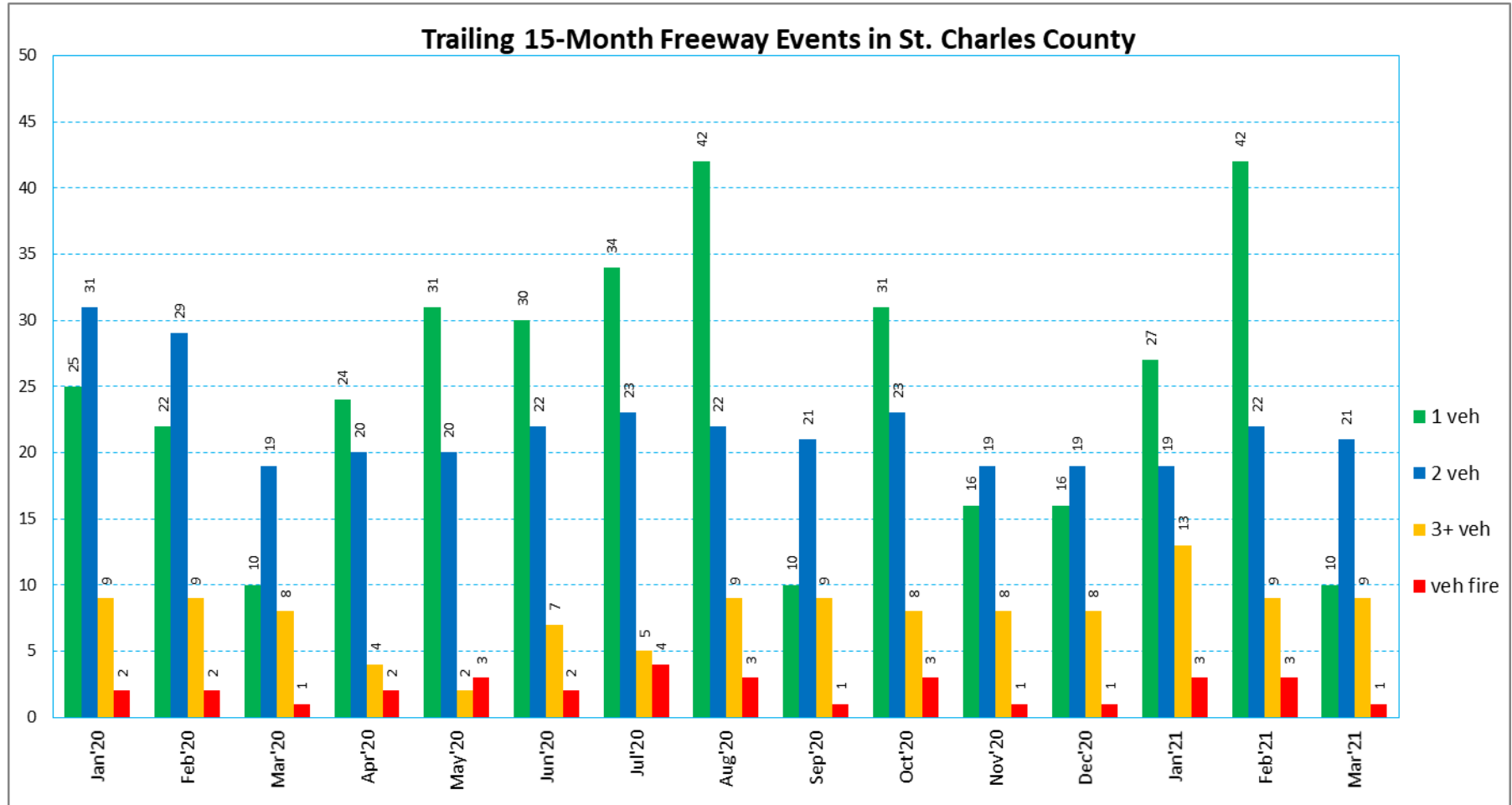
Brought new CCTVs from St Charles City online in ATMS

Installed Econolite ASC/3 controllers in 5th Street cabinets from McDonough to Ameristar for upcoming Emergency Vehicle Preemption deployment

Section 5: Previous Month's Highlights

Managed Incidents

- **1/13 AM – MO 370 WB before Elm St/ New Town Blvd.** Overturned tractor trailer crash involving fire – resulting in full closure of both directions of MO 370. Traffic diverted MO 370 WB at MO 94, MO 370 EB at Truman/ Lakeside Park and MO 370 WB at MO 141. Signal timing plans changed to AMI plans on Lakeside Park Pkwy, Truman Blvd, Cave Springs, MO 94, and MO 141 to facilitate diversions. MO 370 EB lanes reopened after around 3 hours and Lakeside/ Truman/ Cave Springs signals returned to normal operations. WB lanes remained closed for a total of 8 hours, and traffic was monitored throughout the duration.
- **1/18, AM – I-70 EB at I-64, tractor trailer crash.** AMI signal plans implemented on Wentzville Pkwy @ I-70 interchange and signal timings changed at Route Z @ Interstate Dr signal to facilitate diverted traffic volumes traveling around the incident off the freeway. Inside lanes blocked for over 2 hours while vehicle was retrieved, timing changes remained in place for duration of AM peak.
- **1/27, MD – I-70 WB at Cave Springs Rd, tractor trailer crash with barrier damage and fuel spill.** Signal timings changed at I-70 and Caves Springs and Zumbahl interchanges due to backups and traffic diverted off freeway. Event duration 2 hours, 30 minutes. Queue 1.3 miles.
- **1/27, 2/10, All day – Snowfall in the area leading to several incidents and slow conditions on freeways and arterials.** Where necessary signal timing plans changed to accommodate traffic rerouting from freeways as well as slow travel speed due to conditions. Incidents occurred throughout the day and the timing changes were effective throughout the day.
- **3/4, MD, I-70 EB past Bryan Rd 3-vehicle incident resulting in interstate closure.** Signal timings changed to AMI diversion plan on Bryan Rd from W Terra Ln to Veterans Memorial Pkwy and Lake St Louis Blvd from I-70 SOR to I-70 NOR. Queue estimated at 3.2 miles, total event duration 2 hours. Signal timings in effect for full length of event.



Events

- **1/27, 2/10:** All day snowfall/ wintery conditions
- **3/18, 3/25:** Vaccination events at the Family Arena involving over 4,000 people per day

Observation/Assistance Requests

- None to report