

# School Bus Camera Project

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## Information Session School Bus Camera Systems



© 2014

# Project

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In partnership with EECD, ASD-S was chosen as a pilot for installing a number of cameras on school buses throughout the district

All costs for equipment and installation covered by EECD under this collaboration

2011-12

# Goals

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- Validate the effectiveness of the system in capturing the required data in various weather conditions throughout NB
- Confirm the viability of the information captured for the court system
- Collect verifiable data on the frequency of the occurrences

2011-12-16

# Timelines

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- Hardware Installs (Approximately 4 hours per bus)
  - November thru January
- Management Training
  - Software
    - End of January
- Driver Training
  - Process shared at welcome sessions before start of school
  - One on One training after install for specific buses\drivers
    - Demonstrate what's viewed and instruct to press button and check cleanliness of cameras regularly

2011-2012

# Reporting Process - Driver

- Driver records date and time of event
- Completes form and submits to transportation staff

**School Bus - Flashing Red Light Infraction Report**

**Stopped school bus**

*188(1) The driver of a motor vehicle meeting or overtaking a stopped school bus upon a highway when flashing red lights are displayed on such school bus shall bring such motor vehicle to a stop at not less than five metres from such school bus and shall not pass such school bus until it is again in motion or the flashing red lights cease to be displayed.*

New Brunswick Motor Vehicle Act - Section 188

**School Bus Driver Details**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_  
Drivers License #: \_\_\_\_\_ Phone: \_\_\_\_\_ Cell: \_\_\_\_\_  
Civic #: \_\_\_\_\_ Street: \_\_\_\_\_ Municipality: \_\_\_\_\_  
School Bus #: \_\_\_\_\_

**Offence Details**

Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Civic#: \_\_\_\_\_ Street: \_\_\_\_\_ Municipality: \_\_\_\_\_  
Vehicle Passed from:  Front  Rear  
Student Location:  Crossing Road  Leaving Bus  Boarding Bus  On-Board Bus  
Red Lights confirmed functional after incident?  YES  NO

**Suspect Vehicle Details**

Vehicle Plate: \_\_\_\_\_ Color: \_\_\_\_\_  
 2 Door  4 Door  Van  Truck  
Year: \_\_\_\_\_ Make: \_\_\_\_\_ Model: \_\_\_\_\_

**Suspect Driver**

Male  Female Approximate Age: \_\_\_\_\_ Hair Color: \_\_\_\_\_  
Glasses:  Yes  No  
Other Identifying Features:  
\_\_\_\_\_  
\_\_\_\_\_

**Comments**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Reporting Details**

Date Reported: \_\_\_\_\_ Method:  Phone  In-Person  
Law Enforcement Agency: \_\_\_\_\_ Municipality: \_\_\_\_\_  
Officers Name: \_\_\_\_\_

# Reporting Process – Transportation Staff

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- Data collected from GPS
  - Screen Shots
  - Raw Data
- Drivers Report
- Driver report is sent to Department Public Safety and remainder of information and data is maintained by Transportation Staff for future court action if needed

0111111111

# GPS Data

Activity and Trips Report | Kerrgl... x +

kerrglobal38.geotab.com/pnb/#tripsHistory,dateRange:(endDate:'2019-12-16T12:10:59.000Z',startDate:'2019-12-16T12:03:00.000Z'),devices:!(bC6B),routes:(bC6B:!(start:'2019-12-16T11:26:39.000Z',st... ☆ | J Paused |

Apps Trips BP Web Maps AESOP AMEC GeoNB my GPS SchlMsgsr NB911 PowerSchool MCS Cams KVHS Cams TJ SJEC Cams Trans-One KVHS PS Accu Daycares 1253 CA >>

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NORTHERN business intelligence

Support Pnb 0 Notifications jamie.tait@nbed.nb.ca

Groups filter All

Vehicle, VIN, zone, route, or a Options Summary Live positions Report Map toolbar: Map Add zone Close

Map Satellite

Map

**Joanne Jamer (BUS #472) in 28837**  
Driving 2 km/h on 12/16/19 at 08:06:28  
Saint John Ed Centre

- ⚠ EECD Crossing Arm Override on 12/16/19 at 07:16
- 🚦 Red Lights on 12/16/19 at 08:06
- 🚪 Door/Stop Sign on 12/16/19 at 08:06
- 📍 GREEN HEAD ROAD 50 km/h

🌡 -4 °C, few clouds

Google

Stopped Stopped inside zone Remove all EECD Crossing Arm Override Amber Lights Red Lights Door/Stop Sign

©2019 Imagery ©2019 5m Terms of Use Report a map error

# Software – Gatekeeper Systems

**G4 VIEWER PLUS**

admin  
09:26:48  
2020-03-11

Directory

Add Delete

Clipping Directory  
C:\USERS\JAMIE\DESKTOP\STOP RED  
28837

128837 - 1  
12/20/2019 15:29:15  
CH1  
Alarm: SA

228837 - 2  
12/20/2019 15:29:15  
CH2  
Alarm: SA

328837 - 5  
12/20/2019 15:29:15  
CH5  
Alarm: SA

428837 - 6  
12/20/2019 15:29:15  
CH6  
Alarm: SA

2019-12

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

15:29:15 X1

15:29:15 2019-12-20


Channel 1  
Channel 2  
Channel 5  
Channel 6



01/09/2020 15:22:57

CH6

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# Statistics (Sept – Jan)

- 54 Violations reported to Department of Public Safety
- 8 Violations captured on video
- 37 PM
- 17 AM



Outcome	Results
Warning Issued	1
Violation Pending - Physical Address	1
Violation Issued	28
Taxie- Junked R/O Insurance CO	1
Stolen Plate	1
Physical Address - Violation Pending	1
Pending	6
Need plate from video	1
Moved. Address not updated	4
Missing\Incorrect Information from Driver	7
Hospitalized - No Charge Pending	1
Address Incorrect - Pending Contact	2
<b>Grand Total</b>	<b>54</b>

STATISTICS

# Lessons Learned

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- Driver reporting infractions up approximately 400%
- Drivers feel more supported and appreciate work being done
- Random social media posts are being reported that people are saying buses have cameras! [Public Awareness]
- Camera system is hooked directly to bus Aux's so the lights and stop arm system is represented on screen
- Only installed on newer buses to ensure longevity of the systems

11/11/11

# Benefits (Summary)

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- Student Safety
- Driver Safety
- Collaboration of driver reports for court
  - Higher Prosecution
- Public Awareness
- Student Behavior
- Driver Behavior



© 2011

# What next

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- Bill 16 (Awaiting third reading)
  - Authorize School Bus Cameras to be used as evidence without witness
  - Enforce Registered driver being charged
  - 3 points changed to 5 points
  - Fine increases to \$480
- Information collected by EECD to determine future installs

10/11/16

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# Questions?