



Automatic Vehicle Locating (AVL)

Public Works Committee

1/30/17

Overview

- Purpose
- Overview
- AVL
- Public Facing Website
- Summary
- Questions

Purpose of AVL

- AVL was Purchased as an Operational Tool
 - Improved performance of snow control operations
 - Real time data
 - Responding to emergency services
 - Recording location, history of movement of equipment
 - Accident
 - Complaints
 - Claims
 - QA/QC

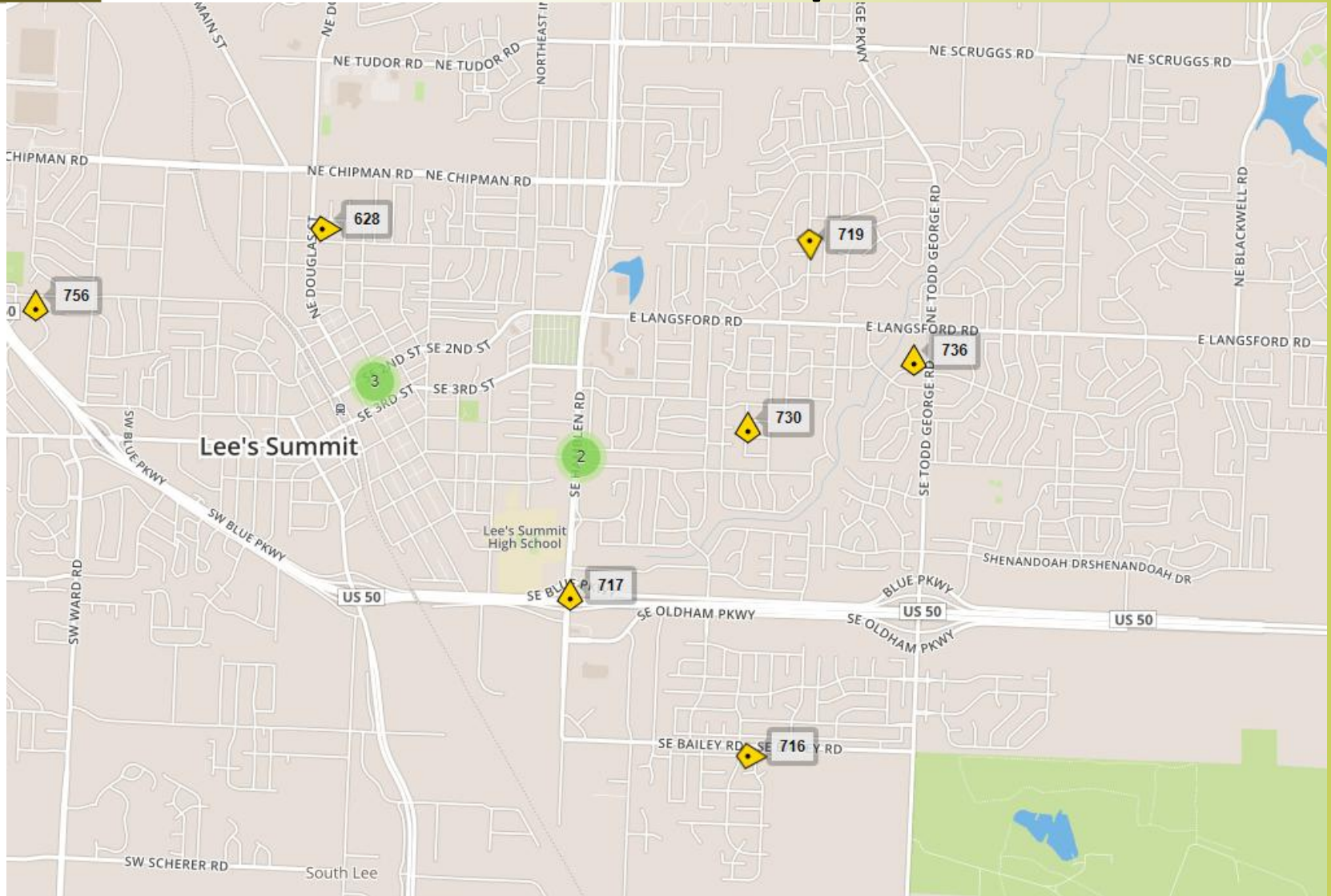
Overview

- AVL system purchased in June 2011
 - Replaced/Enhanced in-house database and reports
 - Installed August/September 2011
- Web-based system that is provided by a third party vendor
- Limited control over system

AVL

- AVL is not intended to be a public facing website
- AVL is raw data without context
 - An interface is required to translate data for public use (i.e. Public Facing Website)
 - Is not hosted on LS servers

AVL Map





AVL Report

18 / 22 Main Report 100%

- 713
- 715
- 730
- 736

D/T Location Activity

Summary for 730 on 1/14/2017

Distance Traveled: 89.49	Min Speed: 1
Elapsed Time: 09:35:31	Avg Speed: 29
	Max Speed: 64

Summary for 730

Distance Traveled: 89.49	Days Active: 2 of 0
Elapsed Time: 09:35:31	Avg Miles Per Day: 89.49

736

1/14/2017

09:31:05 am	-94.3572612 / 38.8841171		
09:31:05 am	1849 SE Hamblen Rd, Lee's Summit 64082	Blade=Up	00:00
09:31:05 am	1849 SE Hamblen Rd, Lee's Summit 64082	Solid Spread=Off	00:00
09:31:06 am	1847 SE Hamblen Rd, Lee's Summit 64082	Blade=Up	00:01
09:31:21 am	1847 SE Hamblen Rd, Lee's Summit 64082	Solid Spread=Off	00:16
09:33:12 am	-94.3561548 / 38.8837304	Solid Spread=Off	02:07
09:34:13 am	1739 SE Hamblen Rd, Lee's Summit 64082	Solid Spread=Off	03:08
09:35:07 am	1353 SE Hamblen Rd, Lee's Summit 64081	Solid Spread=Off	04:02
09:36:12 am	1156 SE Bailey Rd, Lee's Summit 64063	Solid Spread=Off	05:07
09:37:18 am	1488 SE Bailey Rd, Lee's Summit 64063	Solid Spread=Off	06:13
09:38:13 am	1656 US Hwy 50, Lee's Summit 64063	Solid Spread=Off	07:08
09:39:13 am	657 SE Todd George Pkwy, Lee's Summit 64063	Solid Spread=Off	08:08
09:40:12 am	243 SE Todd George Pkwy, Lee's Summit 64063	Solid Spread=Off	09:07
09:41:12 am	1802 NE McKee Ln, Lee's Summit 64086	Solid Spread=Off	10:07
09:41:26 am	1800 NE Patterson Dr, Lee's Summit 64086	Blade=Down	10:21
09:42:11 am	1298 NE Todd George Pkwy, Lee's Summit	Solid Spread=Off	11:06
09:42:27 am	NE Todd George Pkwy, Lee's Summit	Blade=Up	11:22
09:43:12 am	NE Todd George Pkwy, Lee's Summit	Solid Spread=Off	12:07
09:44:12 am	NE Todd George Pkwy, Lee's Summit	Solid Spread=Off	13:07
09:45:11 am	NE Todd George Pkwy, Lee's Summit	Solid Spread=Off	14:06
09:46:12 am	1114 NE Leinweber Rd, Lee's Summit 64064	Solid Spread=Off	15:07
09:47:12 am	1170 NE Leinweber Rd, Lee's Summit 64064	Solid Spread=Off	16:07
09:48:12 am	1040 NE Leinweber Rd, Lee's Summit 64064	Solid Spread=On @ 200 lbs/mi	17:07
09:49:12 am	918 NE Leinweber Rd, Lee's Summit 64064	Solid Spread=Off	18:07
09:50:10 am	2043 NE Rice Rd, Lee's Summit 64064	Solid Spread=Off	19:05
09:51:10 am	1838 NE Rice Rd, Lee's Summit 64064	Solid Spread=On @ 200 lbs/mi	20:05

Printed 1/19/2017 7:30:30 by Lee Summit User



AVL Report

LT Web Reporting x
https://leesummitloctech.com/navigoreports/default.aspx

Map Display: General Activity | Output to maps.google.com | Output to Google Earth | Output to Shape File | Lee Summit User [Logout]

ID	Label/D/T	X	Y	Velocity	Heading	Address	Event	activityDate	msgID	hashid	Event Time
Select 1	713	1/14/2017 7:28:28 AM	-94.3556374680701	38.8840214474547	4.3	SW		1/14/2017 12:00:00 AM			
Select 2	713	1/14/2017 7:28:43 AM	-94.3556374680701	38.8840214474547	4.3	SW		1/14/2017 12:00:00 AM			
Select 3	713	1/14/2017 7:28:58 AM	-94.3558483165389	38.883874770259	4.3	SW		1/14/2017 12:00:00 AM			
Select 4	713	1/14/2017 7:29:04 AM	-94.3557635187851	38.8839274823762	0	N		1/14/2017 12:00:00 AM			
Select 5	713	1/14/2017 7:29:13 AM	-94.3560270793712	38.883773929687	4.3	SW		1/14/2017 12:00:00 AM			
Select 6	713	1/14/2017 7:29:13 AM	-94.3560270793712	38.883773929687			Solid Spread=Off	1/14/2017 12:00:00 AM			
Select 7	713	1/14/2017 7:29:28 AM	-94.3563410602432	38.8836341279848	0	N		1/14/2017 12:00:00 AM			
Select 8	713	1/14/2017 7:29:43 AM	-94.3570102748486	38.8836662136214	0	N		1/14/2017 12:00:00 AM			
Select 9	713	1/14/2017 7:29:58 AM	-94.3571798704561	38.8836753809461	0	N		1/14/2017 12:00:00 AM			
Select 10	713	1/14/2017 7:30:13 AM	-94.3571798704561	38.8836753809461	0	N		1/14/2017 12:00:00 AM			

1

Windows taskbar: 7:36 AM 1/19/2017

Public Facing Website

- In 2014 Public Works contacted our vendor about a Public Facing Website
 - Cost to provide interface for real-time data in excess of \$50,000 to host data on LS servers
 - Vendor offered a basic solution for \$600 per year hosted on their servers
 - Staff has limited control over the Public Facing Website

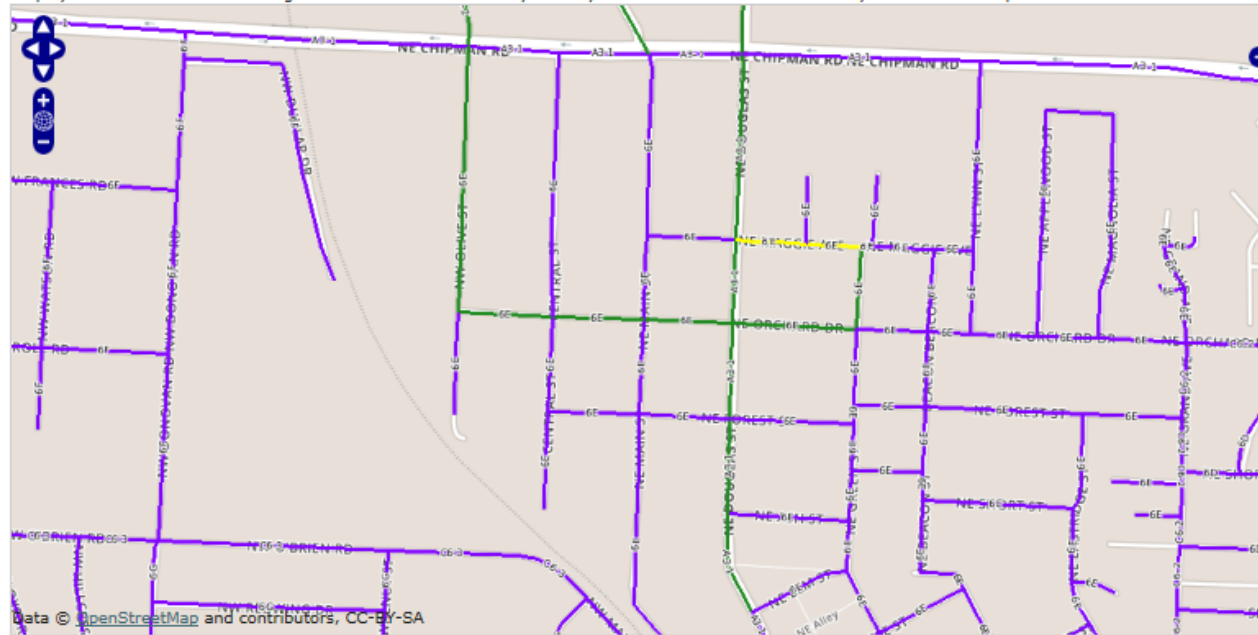
Public Facing Website

- Compiles data from AVL into a user friendly map
- Public Facing Website relies on 100% functionality of AVL
- Provides a snapshot of current status of snow control operations
- Shows street segments that have been completed
- During snow events the Public Facing Website functionality is not our priority

Public Facing Website

City of Lee's Summit Snow and Ice Control Progress Map

Displays Snow and Ice Control Progress on streets maintained by the City of Lee's Summit. Please refresh your browser for updates.



Animated zoom

SNOW ROUTE COLOR KEY

NOT COMPLETED

COMPLETED WITHIN THE PAST 4 HOURS

COMPLETED WITHIN THE PAST 8 HOURS

COMPLETED MORE THAN 24 HOURS AGO

Public Facing Website:

- Is not AVL
- Will not give citizens a higher level of service for plowing and treating streets
- Does not give citizens accurate time snow plow will plow and treat specific streets
- Does not tell where plows are currently located
- Does not provide information on level of response or goal time.
- Will not provide accurate information when plowing is not required
- Does not monitor work done by contractors
- Personnel are not available to troubleshoot AVL or the public facing website during a storm event

Summary

- Staff focus during snow events is executing the snow plan and meeting the established goals
 - Public Facing Website does not impact our level of service
 - Public Communication is being accomplished through other methods
 - Minimal public request for Public Facing Website
 - Cost of technology far exceeds benefit of providing a more extensive website

LS

Questions