



NORTHERN VIRGINIA SNOW BRIEFING

Metropolitan Washington Council of Governments

Lauren Mollerup, P.E., CCM, District Maintenance Engineer

November 2023

Northern Virginia District Background

**Fairfax, Loudoun, Prince
William, and Arlington***

** Arlington maintains own network*

Population: 2.5 million

Commuter lots: 24

Bridges/large culverts: 2,174

Traffic signals: 1,520

VDOT employees: 900



Lane Miles

Total lane miles: 14,238

- **Interstate: 851**
- **Primary: 1,725**
- **Secondary: 11,589**
- **Unpaved: 282**
- **Frontage: 72**
- **Subdivision: 17,372**



Maintenance Areas

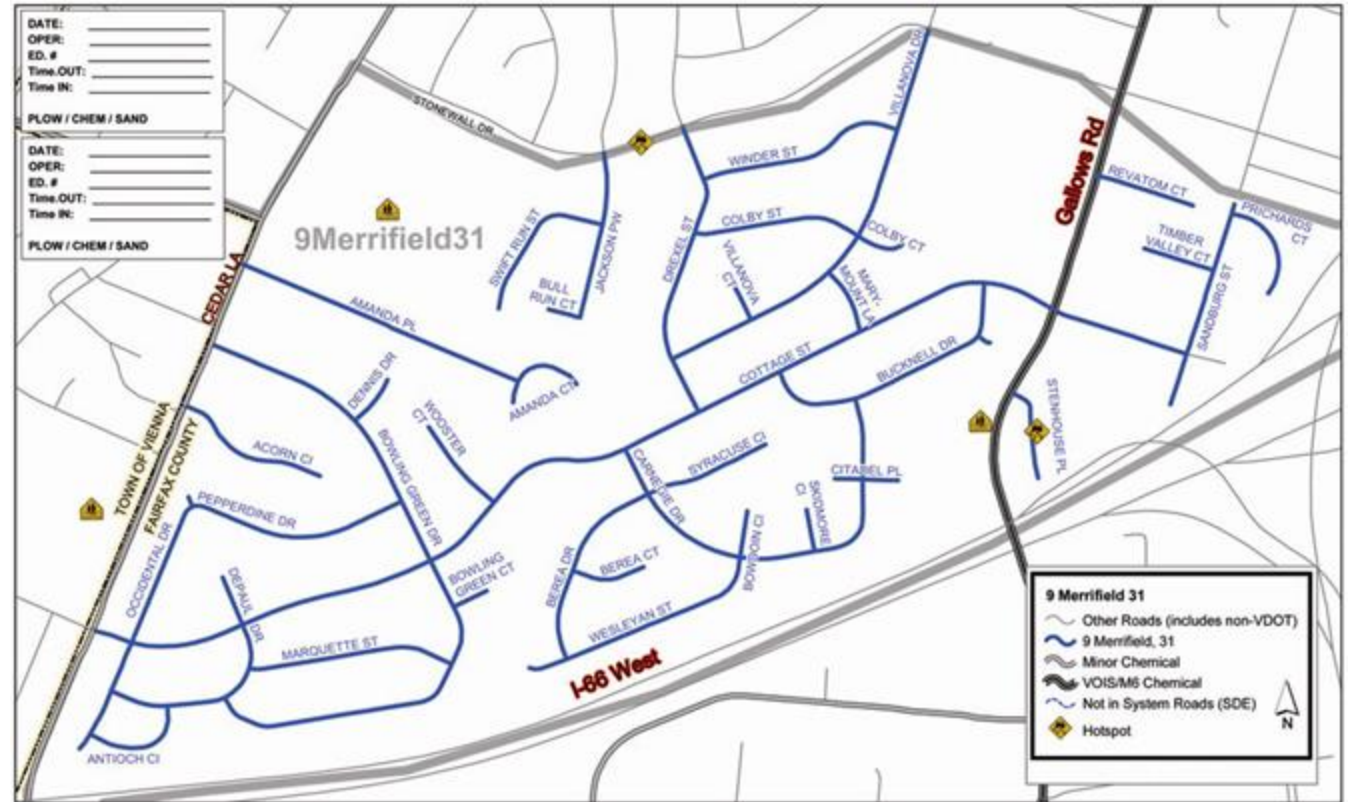
18 maintenance area headquarters

- **Arlington: 1**
- **Fairfax: 9**
- **Loudoun: 4**
- **Prince William: 4**



Snow Maps

NOVA District is divided into **647 snow maps** that includes interstates, primary, and secondary roads.



Planning, Preparation, and Training

- **Review forecast** with National Weather Service and Iteris
- **Mobilization plan** determined, including if incident command will be activated
- **Message is shared with residencies**, including counties and interstates



Resources

Materials capacity:

- Salt: 120,000 tons
- Sand: 25,000 tons
- Brine: 250,000 gallons

Pieces of equipment:

- 3,500 (*mostly contracted*)



Mobilization

- **Mobilization level is determined based on the severity of the storm**
- **Designated levels 1 through 5 (or Skeleton Crews)**
- **Level 1 is a minor storm**
- **Level 5 is a significant storm with 6"+ snow forecast**
- **Levels assigned for each event help determine how many resources are deployed**

Mobilization Plan

- **Mobilization plan organized at the residency level**
- **Residencies' mobilization levels are independent of each other, i.e. Loudoun could be at Level 2 while Arlington only has Skeleton Crews due to forecast rain/snow line**
- **Allows everyone in the district to know what the forecast is, how we are responding to it at each residency, and who the point of contacts are day and night**

Mobilization Plan

Nova Mobilization Plan 2023-2024					
Start time 01/24/2023 at 10:00AM - End Time TBD					
Event# 4; AU1 # NVSNW23004 (SWAS Event ID 4)					
DME Declaration:	Acting DME has declared a local emergency starting on 01/24/23 at 10:00AM.				
Weather Report:	Today: Sunny, with a high near 47. West wind 5 to 8 mph. Tonight: Increasing clouds, with a low around 32. Calm wind becoming east around 5 mph after midnight.				
Equipment Shop Plan:	On call as needed.				
Traffic Operations:	On call as needed.				
	FAIRFAX	INTERSTATE-ARLINGTON	LOUDOUN	PRINCE WILLIAM	TOTALS:
Mob Level:	Skeleton Crew	Skeleton Crew	Low level 1	Skeleton Crew	
Shifts:	4 AM - Noon; 7 AM - 3:30 PM	Crews reporting at 2am	Night shift will report at 4 am 1/25/2023	4am -noon & 7am - 3:30pm 25, January	
EQUIPMENT					
Total VDOT Equipment:	27	3	12	20	62
Total M7B Contract Equipment: (Excluding Supervisors)	45	0	48	20	113
Total Service Contract Equipment: (Excluding Supervisors)	25	25	30	0	80
Total Contract Monitors: (Excluding Supervisors)	0	0	0	0	0
Total Number of Tree Crews (will remain until not needed any further):	0	0	0	0	0
Total Number of Equipment:	97	28	90	40	255
DISTRICT SUPPORT					
Snow Room:	0	0	0	0	0
Office Support:	0	0	0	0	0
Road Monitors	0	0	0	0	0
AVL:	0	0	0	0	0

Mobilization Plan (Cont.)

RESIDENCY POC'S						
FAIRFAX	Day Shift Residency Manager: Steve Shannon, (703) 860-4584			Night Shift Residency Manager: James Nichols, (334) 320-8218		
	Area	Day Shift Mgr.	Mobile	Night Shift Mgr.	Mobile	Snow Room#
	102 Merrifield	Steve Johnson	703 814-3578	Derrick Kennedy	571 882-0494	703-207-7349
	103 Chantilly	Jason Settle	571 926-3068	Keith Wester	703 268-0121	571-262-0718
	104 Clifton	Russell Dodson	571 749-8072	David Klink	571 749-8045	571-262-0702
	105 Van Dorn	Kyle McRunnel	571 297-6992	Howard Stewart	571 238-7091	703-924-3037
	106 Lorton	James Alexander	703 944-3137	Shane White	703 656-1520	703-339-5137
	107 Mt. Vernon	Eddie Lutz	540 940-9795	John Tyler	703 397-3067	703-339-7448
	109 McLean	Marie Jackson	703 386-4127	Chris Williams	571 926-4766	703-207-7348
	110 Reston	Isaiah Brown	571 489-1214	Tim Henson	571 238-7072	703-438-3407
	111 Burke	Joe Miller	571 835-5021	Terrell Wilson	571 748-8099	703-828-1300
LOUDOUN	Day Shift Residency Manager: Jim Betz (571) 292-0962			Night Shift Residency Manager: Daniel Roush (571) 454-4344		
	Area	Day Shift Mgr.	Mobile	Night Shift Mgr.	Mobile	Snow Room#
	Arcola	Jerry Compton	571-246-5364	Chuck Marsh	571-528-0440	571-238-1135
	Hillsboro	Kevin Long	703-261-5423	Richard White	703-397-3204	571-238-1135
	Leesburg	Jeff Beach	571-246-5396	Terry Davis	703-638-8691	571-238-1135
	St Louis	Jamie Vroman	571-238-7095	Mark Wilson	703-268-1862	571-238-1135
PRINCE WILLIAM	Day Shift Manager: Bobby Shetley 571-749-8044			Night Shift Manager: Steve Satterwhite (571) 220-5275		
	Area	Day Shift Mgr.	Mobile	Night Shift Mgr.	Mobile	Snow Room#
	Dumfries AHQ	Charles Stone	703-397-3499	Billy Ayers	571-442-6095	703-221-5023
	Gainesville AHQ	Darren Dodson	571-220-5278	Joe Mauck	571-474-4004	571-261-9890
	Lake Ridge AHQ	Mike Collier	571-749-8056	Kevin Ward	571-749-8052	703-590-5131
	Manassas AHQ	Glenn Gill	571-221-6074	Roger Robison	571-748-8427	703-366-2033
INTERSTATE-ARL	Day Shift Residency Manager: Jon Dowell-571-396-2775			Night Shift Residency Manager: Albert Rollins (571) 393-0456		
	Area	Day Shift Mgr.	Mobile	Night Shift Mgr.	Mobile	Snow Room#
	Arlington	Russ Graham	571-748-8823	Henry Gates	571-979-1432	703-334-0361
	I66	Jason Compton	703-346-2877	Ron Hickman	571-437-2564	703-334-0361
	I95/395	Doug Holsapple	571-722-5322	Roy Campbell	571-384-0384	703-334-0361
	I495/WWB	Gayla Hill	571-220-5322	Stanley Newman	571-220-5315	703-334-0361

Status Report

NOVA 4:00am Status Report 3/8/19

Area	Air Temps	Surface Temps	Precipitation /Accumulation	Current Weather Conditions (Clear/Fair/Poor/Moderate)	# of VDOT Trucks	# of M7B Trucks	Service Contract Trucks	# M7B Loaders/Heavy Equipment	Monitors	SWAS Updated ?	TOC/VA-511 Road Closures	Issues/Comments
Interstate/ Arlington	34-39	34-38	0	Clear	4	2	43	4	1	yes	None	None reported
Fairfax	34	35	0	Cloudy / Rain	31	444	0	8	4	Yes	N/A	N/A
Loudoun	32-35	33-35	0.0 in east 2-inches Hillsboro	Cloudy	14	57	70	2	10	SWAS Updated at 2:00am	None At this time	icing out in western areas
Prince William	33-34	33-37	wet / 0	Cloudy	19	13	0	1	0	yes	0	No issues and on standby

Pretreatment

- **Most effective during first hour of winter weather event**
- **Reduces bonding to asphalt and concrete surfaces**
- **Needs dry conditions so that the brine doesn't wash away or dilute**



Pretreatment

If the storm is expected to start as all snow, and the temperatures are within the correct range (>20F), we may perform a partial or full pretreatment of all bridges, overpasses, elevated surfaces, primary and/or secondary roads.



Additional Focus

- Ensuring the roadways are as safe as possible
- Shoulders, ramps, turn lanes, and intersections
- 12,000 park and ride spaces



Additional Priorities

Sidewalks

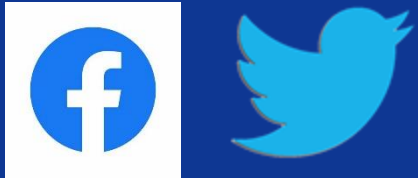
- Crews asked to be mindful of limited space to pile snow
- Special care is given near schools/emergency facilities
- Residents/businesses are asked to clear near their property
- Check with localities for ordinances



VDEQ Salt Management Strategy (SaMS)

- **Since January 2018, VDOT has participated in the Salt Management Strategy (SaMS) development coordinated by the Virginia Department of Environmental Quality (VDEQ)**
- **Stakeholders working to balance public safety and impacts of salt use**
- **Aims to raise awareness of salt use; share how individuals, businesses, and organizations can participate; and provide voluntary guidance for potential monitoring and research**
- **SaMS Tool kit finalized March 2021- Details:
<https://www.novaregion.org/1399/Northern-Virginia-Salt-Management-Strate>**

Stay Informed and Connected



@vadotnova

Frequent updates on social media



511Virginia.org

For road conditions and traffic cameras



virginiadot.org/novaemergency

Find all resources in one place



vdotplows.org

Location of plows once 2" has accumulated

Questions?





Virginia Department of Transportation