

Annual Report for Year 2 (2023-2024) of the Time Limited Water Quality Standard for Chloride

5/28/2024

Prepared by IDOT District One



The Illinois Department of Transportation is a member of the Chicago Area Waterways Chloride Workgroup/Lower Des Plaines Watershed Group



1.0 Introduction

This Annual Report has been prepared by IDOT District One to report on progress in meeting the requirements for the Time Limited Water Quality Standard for Chloride. IDOT District One is a discharger covered under the Time Limited Water Quality Standard for Chloride for the Chicago Area Waterways System and Lower Des Plaines River watersheds. This Annual Report has been prepared to meet the requirements laid out in the Time Limited Water Quality Standard (TLWQS) for Chloride.

Chloride does not degrade over time and continues to accumulate in the environment. Proactive measures to reduce the amount of chloride discharged can help reduce the impacts from chloride on receiving waterways and the environment. Chloride impacts aquatic life, vegetation, and infrastructure. As the chloride concentrations increase and our waters become saltier, aquatic and plant biodiversity decreases and native species are overtaken by salt tolerant invasive species.

Chlorides are commonly found in road salt, fertilizers, water softeners, dust suppressants, and certain industrial processes. Chloride-based deicers, like rock salt, are used on parking lots, sidewalks, and roads to provide safe surfaces to the public during the winter months. These deicers are one of most common sources of chloride in the Chicago region.

The water quality standard for chloride for the Chicago Area Waterway System (CAWS) was updated as part of the rulemaking process related to changing the designated use of the CAWS. The chloride standard was updated from 1,500 mg/L during the winter and 500 mg/L during the summer to 500 mg/L all year round. The change in the chloride water quality standard took effect in 2018. Because portions of the CAWS were not going to meet this new standard due to the need to maintain public safety on roads, highways, sidewalks and parking lots during the winter months, a joint submittal and supporting individual petitions were submitted between 2015 and 2018 to the Illinois Pollution Control Board for a variance from the chloride standard. The joint petition laid out best management practices that can be achieved by the petitioners to reduce their chloride use while maintaining public safety during winter storms. In addition to the CAWS, portions of the Lower Des Plaines River watershed were included as it receives water from the CAWS.

On November 4, 2021, the IPCB issued an Opinion and Order for a Time Limited Water Quality Standard (TLWQS) for Chloride for portions of the CAWS and Lower Des Plains River watersheds. The TLWQS for Chloride watersheds are defined in the Opinion and Order as the Des Plaines River watershed from the Kankakee River to the Will County Line (except for the DuPage River watershed) and the CAWS watershed (except the North Branch Chicago River watershed upstream of the North Shore Channel and those portions of the watershed located in Indiana). This is a watershed-based approach to reduce the chloride concentrations in the CAWS and Lower Des Plaines River. The TLWQS for Chloride requires all dischargers covered under the TLWQS for Chloride to create PMPs and implement specific best management practices based on their operations to reduce their chloride discharges.

2.0 Organization, Facility Information

Agency Name: Illinois Department of Transportation (IDOT)		
Facility Name: District One	Permit Number: ILG103	
Facility Address: 201 W. Center Court		
City: Schaumburg	State: IL	Zip Code: 60196

IDOT District One has 17 maintenance facilities within the CAWS. These facilities located in Cook, DuPage, and Will County are responsible for the snow and ice removal of nearly 9,000 lane miles. Additionally, IDOT operates 4 additional sub-storages in Cook and Will County. Every maintenance facility as well as the sub-storage facilities have at least one salt storage structure. The structures range in capacity from 3,300 tons to 13,000 tons.

2.1 Level of Service for Winter Maintenance Activities

IDOT District One provides 24/7 snow and ice removal efforts. These efforts are continuous until all roadways are clear of snow and ice.

3.0 Best Management Practices

Details regarding IDOT District One’s implementation of the best management practices (BMPs) identified as part of the TLWQS for Chloride are included below.

Workgroup BMP

BMP	Agency Description of Current Implementation or Status Update to the Plan to Implement the BMP
The permittee must participate in a Chlorides workgroup for the CAWS or LDPR, depending on the watershed within which the facility’s discharge is located.	IDOT District One has been a member of the lower Des Plaines Watershed Chloride Workgroup/Chicago Area Waterways Group since 2015. IDOT has experienced severe staffing shortages and turn over, but has recently been filling vacancies. Participation in work groups has increased.

Salt Storage and Handling BMPs

BMP	Agency Description of Current Implementation or Status Update to the Plan to Implement the BMP
Store all salt on an impermeable pad that must be constructed to ensure that minimal stormwater is coming into contact with salt unless the salt is stored in a container that ensures stormwater does not come into contact with the salt.	A new 10,000-ton salt storage structure is set to be completed by the end of May 2024 at the Stevenson Yard. Four facilities are scheduled to have their parking lots resurfaced and drainage improved in 2024.
Cover salt piles at all times except when in active use, unless stored indoors.	All IDOT District One facilities have indoor salt storage structures ranging from 3,000 to 13,000-ton capacities. There were two salt piles from surplus salt purchases from 2022-2023 that were

	covered by a specialized company. The covered salt piles were the utilized and cleared by December 2023 of the snow and ice season.
For working areas, provide berms and or sufficient slope to allow snow melt and stormwater to drain away from the area. If snow melt and stormwater cannot be drained away from the working area, channeling water to a collection point such as a sump, holding tank or lined basin for collection, discharge at a later time, use for prewetting, and use for make-up water for brine must be considered.	N/A
MS4/CSO Only - Use deicing material storage structures for all communities covered under General Permit ILR40 for MS4 communities.	N/A
<p>Good housekeeping practices must be implemented at the site, including:</p> <ul style="list-style-type: none"> • cleanup of salt at the end of each day or conclusion of a storm event; • tarping of trucks for transportation of bulk chloride; • maintaining the pad and equipment; • good practices during loading and unloading; • cleanup of loading and spreading equipment after each snow/ice event; • a written inspection program for storage facility, structures and work area; • removing surplus materials from the site when winter activity finished where applicable; 	IDOT District One uses good housekeeping practices while handling winter road salt. Ordering, receiving, and handling of salt is conducted as quickly as possible to reduce exposure to rain/snow and wind. Larger storage facilities were built to allow deliveries to be dumped inside. The District utilizes salt conveyors to load salt more efficiently in the small storage buildings.

<ul style="list-style-type: none"> • annual inspection and repairs completed when practical; • evaluate the opportunity to reduce or reuse the wash water. 	
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Winter Maintenance Operations BMPs

BMP	Agency Description of Current Implementation or Status Update to the Plan to Implement the BMP
Calibrate all salt spreading equipment at least annually before November 30th. Records of the calibration results must be maintained for each piece of spreading equipment.	100% of all snow and ice truck spreaders are calibrated. Calibrations are verified and documented at the pre-winter equipment inspections.
Pre-wet road salt before use, either by applying liquids to the salt stockpile, or by applying liquids by way of the spreading equipment as the salt is deposited on the road.	As temperature conditions warranted, all road salt was pre-wet before being applied on the roadways.
Use equipment to measure the pavement temperature unless such equipment has already been installed on road salt spreading vehicles.	Supervisors have been issued portable temperature sensors and trained on their usage. New trucks have equipment that provides the pavement temperature.
Develop and implement a protocol to vary the salt application rate based on pavement temperature, existing weather conditions, and forecasted weather conditions.	Application rates are detailed in section 7 of IDOT District One's Snow & Ice Manual. Rates are reviewed at the fall kick-off meeting.
Track and record salt quantity used and storm conditions from each call-out.	IDOT District One maintained records of each storm and salt consumption for each storm. See Appendix 1.
Develop a written plan for implementation of anti-icing, with milestones. The plan should consider increased use of liquids (e.g., carbohydrate products) beginning with critical locations such as bridges over streams.	IDOT District One uses anti-icing as part of its winter operation. As conditions warranted, IDOT District One followed this program.

<p>Provide employees involved in winter maintenance operations with annual training before November 30th on best management practices in the use of road salt in operations, including the practice of plowing first and applying salt only after snow has been cleared.</p>	<p>IDOT District One conducted an Annual Snow & Ice training in the fall of 2023 for all supervisors. The Area Supervisors completed APWA/PSA Winter Workshop & Operator Training in August 2023. Supervisors and crew leaders took Salt Symposium Deicing Workshops in September and October of 2023. All new employees were provided on-the-job training at the maintenance facilities.</p>
<p>Be responsible for complying with all applicable BMPs even when deicing practices are contracted out and ensure that contractors are properly trained and comply with all applicable BMPs.</p>	<p>N/A</p>
<p>Complete an annual report, as required by paragraph 3(B) of this order, which is standardized in an electronic format and submitted to the IEPA's website and to the watershed group.</p>	<p>Report saved and submitted to IEPA and watershed group.</p>
<p>Obtain and put into place equipment necessary to implement all salt spreading/deicing measure specified in this BMP, such as any new or retrofitted salt spreading equipment necessary to allow for pre-wetting and proper rates of application.</p>	<p>N/A</p>
<p>MS4/CSO/IDOT/TOLLWAY Only - Install equipment to measure the pavement temperature on the winter maintenance fleet for a sufficient number of vehicles to provide sufficient information to adjust application rates for the most efficient levels. Develop and complete a plan to equip the winter maintenance fleet before the first re-evaluation.</p>	<p>No new equipment for 2023-24 Snow and Ice Season. N/A</p>
<p>MS4/CSO/IDOT/TOLLWAY Only - Before the first re-evaluation, develop a method for conducting a post-winter review</p>	<p>IDOT District One supervisors conducted post storm reviews after significant storm events.</p>

<p>to identify areas of success and areas in need of improvement. Items to be completed as part of the review must include, but are not limited to, an evaluation of each salt spreader’s application rate, variations in application rates, and discussion of the variation compared to the recommended rates. Once developed, the review should occur annually in the spring/early summer following each winter season.</p>	
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Additional BMPs Identified for Agency/Facility

BMP	Agency Description of Current Implementation
	No new BMPs at this time.

3.1 Analysis of BMPs Implemented

The Department hired more than 200 full time permanent employees prior and during the Snow & Ice season which required the utilization of 475 temporary employees. All these employees received on-the-job snow and ice training.

3.2 Analysis of Alternative Treatments or New Technology

IDOT District One has been purchasing end loaders with weigh-in-bucket capabilities that provide us more accurate salt monitoring abilities.

4.0 Deicing/Anti-Icing Agents Used

Materials used by IDOT District One for the 2023-2024 winter season are included as Appendix 1.

Material or Product	Dry, Pre-Wet, Pretreated, or Liquid	Lane Miles Treated with the Product for 2022-2023	Parking Lot and Sidewalk Area (Sq. Ft.) Treated with the Product for 2022-2023	Lane Miles Treated with the Product for 2023-2024	Parking Lot and Sidewalk Area (Sq. Ft.) Treated with the Product for 2023-2024	Total Amount used for 2022-2023 (Year 1) in Tons or Gallons	Total Amount used for 2023-2024 (Year 2) in Tons or Gallons	Total Amount Used Over First 5-Year Term
Salt	Pre-Wet	10249	N/A	10252.28	N/A	123386	108542	231928
Salt Brine	Liquids	10249	N/A	10252.28	N/A	189967.5	203550	393517.5

Estimates of Relative Material Amounts Applied and Coverage Achieved

Year	Total Lane Miles Maintained	Total Parking Lot and Sidewalk Area (Sq. Ft.) Maintained	Percent of Total Lane Miles Treated with Dry Materials	Percent of Total Lane Miles Treated with Pre-Wet or Pretreated Materials	Percent of Total Lane Miles Treated with Liquids	Percent of Total Parking Lot and Sidewalk Area Treated with Dry	Percent of Total Parking Lot and Sidewalk Area Treated with Pre-wet or Pretreated Materials	Percent of Total Parking Lot and Sidewalk Area Treated with Liquids
2022-2023	10249	N/A	0%	100%	100%	0%	0%	0%
2023-2024	10252.28	N/A	0%	100%	100%	0%	0%	0%

4.1 Application Rates

The application rates used by IDOT District One for the 2023-2024 winter season are included as Appendix 2.

4.1.1 Application Rate Analysis

N/A

4.2 Application Practices

IDOT District One uses the following practices to apply deicing and anti-icing materials:

- None

4.3 Call Outs

A total of 13.9 to 33.5 inches of snow was reported in IDOT District One for the 2023-2024 winter. There were 27 snow event(s) for the 2023-2024 winter. IDOT District One had 38 of call outs completed during the 2023-2024 winter. A log of all call outs completed by IDOT District One are included as Appendix 3.

4.4 Use of Liquids

As detailed in Appendix 2

5.0 Training

IDOT District One completed annual training for 90 of employees out of 620 of employees who are part of the winter maintenance operations on October 31st, 2024. A list of annual training topics by type of employee is included as Appendix 4.

6.0 Deicing and Snow Removal Equipment and Maintenance

IDOT District One uses equipment listed in Appendix 5 during winter maintenance activities.

6.1 Description of Equipment Washing and Wash Water Collection

All snow and ice removal trucks are cleaned and washed as quickly as possible after storms. All wash water is treated at municipal sanitary sewer treatment facilities.

7.0 Material Storage

IDOT District One maintains 27 storage area(s). Information regarding the storage area(s) is included in Appendix 6.

8.0 Capital Purchases

Identified capital purchases from IDOT District One's PMP to implement the BMPs and reduce chlorides in our operations over the first 5-year term of the Chloride TLWQS are included as Appendix 7.

8.1 Explanation of Capital Purchases Unable to Be Made According to the Reported Plan

The Bishop Ford Salt Storage Structure has been delayed for a minimum of one year due to budget and design issues at the site.

9.0 Environmental Monitoring Data

Chloride monitoring data is collected for the CAWS and Lower Des Plaines River watersheds per the IPCB order. The data is maintained by the workgroups. Chloride data for the CAWS is collected by MWRD for the CAWS watershed and provided to the workgroups as part of the annual reporting as required by the IPCB order. The Lower Des Plaines Watershed Group also maintains a USGS monitoring station in the Des Plaines River at Channahon, IL that collects continuous conductivity data to estimate chloride concentrations.

Chloride monitoring data reports are posted to <https://www.cawswatershed.org/reports/> and <https://ldpwatersheds.org/about-us/lower-des-plaines-watershed-group/our-work/chloride-tlwqs/>.

10.0 Program Evaluation

N/A

10.1 Proposed Steps for the Coming Year

N/A

11.0 Workgroup Participation

IDOT District One plans to increase their participation in the various workgroups. We have sent key personnel to Winter Deicing Workshops and the 2023 Public Works Using Good Practices in Winter Maintenance where our Bureau Chief of Maintenance provided input via a presentation.

Material or Product	Dry, Pre-Wet, Pretreated, or Liquid	Lane Miles Treated with the Product for 2022-2023	Parking Lot and Sidewalk Area (Sq. Ft.) Treated with the Product for 2022-2023	Lane Miles Treated with the Product for 2023-2024	Parking Lot and Sidewalk Area (Sq. Ft.) Treated with the Product for 2023-2024	Total Amount used for 2022-2023 (Year 1) in Tons or Gallons	Total Amount used for 2023-2024 (Year 2) in Tons or Gallons	Total Amount used for 2023-2024 (Year 3) in Tons or Gallons	Total Amount used for 2023-2024 (Year 4) in Tons or Gallons	Total Amount used for 2023-2024 (Year 5) in Tons or Gallons	Total Amount Used Over First 5-Year Term
Salt	Pre-Wet	10249	N/A	10252.28	N/A	123386	108542				231928
Salt Brine	Liquids	10249	N/A	10252.28	N/A	189967.5	203550				393517.5
											0
											0
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											0
											0

Estimates of Relative Material Amounts Applied and Coverage Achieved

Year	Total Lane Miles Maintained	Total Parking Lot and Sidewalk Area (Sq. Ft.) Maintained	Percent of Total Lane Miles Treated with Dry Materials	Percent of Total Lane Miles Treated with Pre-Wet or Pretreated Materials	Percent of Total Lane Miles Treated with Liquids	Percent of Total Parking Lot and Sidewalk Area Treated with Dry	Percent of Total Parking Lot and Sidewalk Area Treated with Pre-wet or Pretreated Materials	Percent of Total Parking Lot and Sidewalk Area Treated with Liquids			
2022-2023	10249	N/A	0%	100%	100%	0%	0%	0%			
2023-2024	10252.28	N/A	0%	100%	100%	0%	0%	0%			

Snow and Ice Control Report (R054)

Period Covering: 10/31/23 to 04/30/24

Admin Unit: DISTRICT 1 (All)

SNOW REMOVAL 470 & 472

 FOR STORMS:
FROST FREEZE:

 SNOWFALL:
STORM START TIME:

Admin Unit	Total Miles	Total Labor Hours	Equipment Cost			Total Cost	Cost Mile Labor	Cost Mile Equip.	Cost Mile Matl.	Cost Mile Total	Salt Quant	
			Labor Cost	Material Cost							Tons Salt	Tons / Mile
DISTRICT 1												
011 Arlington Heights	606.34	9547.36	\$ 448,829	\$ 681,547	\$ 407,348	\$ 1,537,724	\$ 740	\$ 1,124	\$ 672	\$ 2,536	5695.10	9.39
012 Northbrook	702.1	7323.86	\$ 308,106	\$ 899,832	\$ 257,645	\$ 1,465,582	\$ 439	\$ 1,282	\$ 367	\$ 2,087	3790.00	5.40
021 Northside	694.33	6725.54	\$ 279,153	\$ 341,036	\$ 227,684	\$ 847,873	\$ 402	\$ 491	\$ 328	\$ 1,221	3238.54	4.66
022 Hillside	1113.31	11840.9	\$ 469,238	\$ 442,280	\$ 422,911	\$ 1,334,429	\$ 421	\$ 397	\$ 380	\$ 1,199	6349.50	5.70
031 Alsip	589.35	10525.85	\$ 428,753	\$ 480,152	\$ 443,929	\$ 1,352,833	\$ 728	\$ 815	\$ 753	\$ 2,295	6596.55	11.19
032 Harvey	766.93	7485.37	\$ 320,655	\$ 357,771	\$ 266,833	\$ 945,258	\$ 418	\$ 466	\$ 348	\$ 1,233	4251.00	5.54
115 Grayslake	519.32	11085.99	\$ 487,873	\$ 524,402	\$ 552,886	\$ 1,565,162	\$ 939	\$ 1,010	\$ 1,065	\$ 3,014	6997.75	13.47
116 Gurnee	517.27	6384	\$ 284,057	\$ 453,225	\$ 535,607	\$ 1,272,890	\$ 549	\$ 876	\$ 1,035	\$ 2,461	6796.36	13.14
117 Woodstock	427.74	10706.2	\$ 463,289	\$ 542,725	\$ 568,024	\$ 1,574,039	\$ 1,083	\$ 1,269	\$ 1,328	\$ 3,680	6947.50	16.24
122 South Side Sign		28.5	\$ 1,487	\$ 0	\$ 0	\$ 1,487					0.00	
127 Naperville	388.93	6677.62	\$ 297,877	\$ 367,970	\$ 329,171	\$ 995,018	\$ 766	\$ 946	\$ 846	\$ 2,558	3871.50	9.95
128 Oakbrook	427.01	8996.25	\$ 363,349	\$ 397,985	\$ 386,683	\$ 1,148,017	\$ 851	\$ 932	\$ 906	\$ 2,689	5473.48	12.82
129 St. Charles	607.05	9671.5	\$ 444,196	\$ 652,421	\$ 455,413	\$ 1,552,030	\$ 732	\$ 1,075	\$ 750	\$ 2,557	5465.50	9.00
135 Joliet	349.7	6481.24	\$ 304,609	\$ 411,577	\$ 217,819	\$ 934,006	\$ 871	\$ 1,177	\$ 623	\$ 2,671	3108.00	8.89
136 New Lenox	642.99	8278.25	\$ 401,343	\$ 588,916	\$ 649,936	\$ 1,640,196	\$ 624	\$ 916	\$ 1,011	\$ 2,551	8625.75	13.42
137 I-55	374.38	7163.75	\$ 310,897	\$ 447,639	\$ 395,856	\$ 1,154,392	\$ 830	\$ 1,196	\$ 1,057	\$ 3,083	5333.71	14.25
170 Kennedy Landscape		0	\$ 0	\$ 0	\$ 52,811	\$ 52,811					778.00	
191 Sweeping		69.25	\$ 2,876	\$ 0	\$ 0	\$ 2,876					0.00	
E13 Edens	138.06	4797.13	\$ 226,389	\$ 300,981	\$ 175,676	\$ 703,046	\$ 1,640	\$ 2,180	\$ 1,272	\$ 5,092	2496.00	18.08
E14 Rodenburg	268.5	9389.65	\$ 445,579	\$ 485,464	\$ 479,105	\$ 1,410,147	\$ 1,660	\$ 1,808	\$ 1,784	\$ 5,252	6389.50	23.80
E23 Eisenhower	196.03	6250.51	\$ 262,306	\$ 286,825	\$ 316,714	\$ 865,845	\$ 1,338	\$ 1,463	\$ 1,616	\$ 4,417	4109.00	20.96
E24 Kennedy	168.29	7575.83	\$ 354,765	\$ 425,748	\$ 160,665	\$ 941,178	\$ 2,108	\$ 2,530	\$ 955	\$ 5,593	2292.00	13.62
E25 Dan Ryan	141.02	7149.27	\$ 312,176	\$ 324,360	\$ 251,164	\$ 887,701	\$ 2,214	\$ 2,300	\$ 1,781	\$ 6,295	3463.50	24.56
E26 Stevenson	179.87	6238.46	\$ 266,576	\$ 413,136	\$ 191,585	\$ 871,297	\$ 1,482	\$ 2,297	\$ 1,065	\$ 4,844	2355.75	13.10
E33 Bishop Ford	231.15	6945.47	\$ 288,684	\$ 356,666	\$ 112,156	\$ 757,506	\$ 1,249	\$ 1,543	\$ 485	\$ 3,277	1633.50	7.07
E34 Interstate 57	202.61	6010.53	\$ 254,415	\$ 279,612	\$ 161,401	\$ 695,428	\$ 1,256	\$ 1,380	\$ 797	\$ 3,432	2484.50	12.26

Snow and Ice Control Report (R054)

Period Covering: 10/31/23 to 04/30/24

Admin Unit: DISTRICT 1 (All)

SNOW REMOVAL 470 & 472

 FOR STORMS:
FROST FREEZE:

 SNOWFALL:
STORM START TIME:

Admin Unit	Total Miles	Total Labor Hours	Labor Cost	Equipment Cost	Material Cost	Total Cost	Cost Mile Labor	Cost Mile Equip.	Cost Mile Matl.	Cost Mile Total	Salt Quant Tons Salt	Tons / Mile
DISTRICT 1												
DISTRICT 1 Totals:	10252.28	183348.28	\$ 8,027,477	\$ 10,462,270	\$ 8,019,023	\$ 26,508,770	\$ 783	\$ 1,020	\$ 782	\$ 2,586	108541.99	10.59
			Average Spread Rates In Tons /		Interstate / Expressway:		69.18	Regular:		12.90		
			Average Cost / Mile		Interstate / Expressway:		\$ 16,895.22	Regular:		\$ 3,149.50		
	*** Material Cost Includes Cost of Salt, Calcium Chloride (Liquid & Dry), Abrasives (Cinder & Sand), Abrasive Mixes and Plow Edges											
	*** Labor, Equipment, Material hours and cost are from day card for date work within covering period; Miles are from work order											
Report Totals :	10252.28	183348.28	\$ 8,027,477	\$ 10,462,270	\$ 8,019,023	\$ 26,508,770	\$ 783	\$ 1,020	\$ 782	\$ 2,586	108541.99	10.59



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
11/26/2023	472 - SNOW REMOVAL	Multiple	011	O'CONNELL, ROBERT L	500.00	\$ 481.85
12/31/2023	472 - SNOW REMOVAL	Multiple	011	O'CONNELL, ROBERT L	300.00	\$ 307.95
12/31/2023	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	85.00	\$ 87.25
01/06/2024	472 - SNOW REMOVAL	Multiple	011	O'CONNELL, ROBERT L	500.00	\$ 513.25
01/06/2024	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	500.00	\$ 513.25
01/07/2024	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	500.00	\$ 513.25
01/09/2024	472 - SNOW REMOVAL	Multiple	011	O'CONNELL, ROBERT L	1,000.00	\$ 1,026.50
01/09/2024	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	1,000.00	\$ 1,026.50
01/10/2024	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	500.00	\$ 513.25
01/11/2024	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	250.00	\$ 256.60
01/12/2024	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	500.00	\$ 513.25
01/14/2024	472 - SNOW REMOVAL	Multiple	011	O'CONNELL, ROBERT L	1,000.00	\$ 1,026.40
01/23/2024	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	500.00	\$ 513.25
01/23/2024	472 - SNOW REMOVAL	Multiple	011	O'CONNELL, ROBERT L	500.00	\$ 513.25
02/24/2024	472 - SNOW REMOVAL	Multiple	011	MEDINA, CHRISTOPHER A	542.00	\$ 557.61
03/22/2024	472 - SNOW REMOVAL	Multiple	011	CLOW, ROBERT J	550.00	\$ 566.12
Location 011 Totals					8,727.00	\$ 8,929.53
01/12/2024	472 - SNOW REMOVAL	Multiple	012		100.00	\$ 98.71
01/13/2024	472 - SNOW REMOVAL	Multiple	012		250.00	\$ 246.78
01/14/2024	472 - SNOW REMOVAL	Multiple	012		600.00	\$ 592.26
01/14/2024	472 - SNOW REMOVAL	Multiple	012		285.00	\$ 281.32
01/19/2024	472 - SNOW REMOVAL	Multiple	012		550.00	\$ 542.90
01/19/2024	472 - SNOW REMOVAL	Multiple	012		280.00	\$ 276.39
01/23/2024	472 - SNOW REMOVAL	Multiple	012		100.00	\$ 98.71
03/22/2024	472 - SNOW REMOVAL	Multiple	012		265.00	\$ 261.58
04/03/2024	472 - SNOW REMOVAL		012		80.00	\$ 78.97
Location 012 Totals					2,510.00	\$ 2,477.62
11/26/2023	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	472.00	\$ 404.41
12/31/2023	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	347.00	\$ 312.40
01/06/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	160.00	\$ 144.05
01/07/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	25.00	\$ 22.51
01/09/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	115.00	\$ 103.53
01/12/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	550.00	\$ 495.16
01/13/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	75.00	\$ 67.52
01/15/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	25.00	\$ 22.51



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
01/19/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	612.00	\$ 550.98
01/23/2024	472 - SNOW REMOVAL	Multiple	021	WHITEMAN, ROBERT S	720.00	\$ 648.22
01/24/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	1,121.00	\$ 1,009.12
01/24/2024	472 - SNOW REMOVAL	Multiple	021	WHITEMAN, ROBERT S	288.00	\$ 259.29
01/25/2024	472 - SNOW REMOVAL	Multiple	021	WHITEMAN, ROBERT S	1,237.00	\$ 1,113.67
02/16/2024	472 - SNOW REMOVAL	Multiple	021		250.00	\$ 225.08
02/28/2024	472 - SNOW REMOVAL	Multiple	021	MARTI, ROBERT E	2,500.00	\$ 2,250.75
02/29/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	MARTI, ROBERT E	500.00	\$ 450.15
03/01/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	ROBERTS, MICHAEL G	500.00	\$ 450.15
03/04/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	WHITEMAN, ROBERT S	500.00	\$ 450.15
03/05/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021		500.00	\$ 450.15
03/06/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021		500.00	\$ 450.15
03/08/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	ROBERTS, MICHAEL G	500.00	\$ 450.15
03/11/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	ROBERTS, MICHAEL G	500.00	\$ 450.15
03/13/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	ROBERTS, MICHAEL G	500.00	\$ 450.15
03/14/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	ROBERTS, MICHAEL G	500.00	\$ 450.15
03/15/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	ROBERTS, MICHAEL G	500.00	\$ 450.15
03/18/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	WHITEMAN, ROBERT S	500.00	\$ 450.15
03/18/2024	472N - SNOW & ICE (NIGHT PATROL)		021	ROBERTS, MICHAEL G	500.00	\$ 450.15
03/19/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	WHITEMAN, ROBERT S	500.00	\$ 450.15
03/20/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	WHITEMAN, ROBERT S	500.00	\$ 450.15
03/21/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	WHITEMAN, ROBERT S	500.00	\$ 450.15
03/22/2024	472 - SNOW REMOVAL		021	ROBERTS, MICHAEL G	2,000.00	\$ 1,800.60
03/22/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	ROBERTS, MICHAEL G	500.00	\$ 450.15
03/22/2024	472 - SNOW REMOVAL	Multiple	021	ROBERTS, MICHAEL G	90.00	\$ 81.03
03/25/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	021	ROBERTS, MICHAEL G	500.00	\$ 450.15
04/03/2024	472 - SNOW REMOVAL	Multiple	021		389.00	\$ 350.22
Location 021 Totals					19,476.00	\$ 17,513.60
01/12/2024	472 - SNOW REMOVAL	Multiple	022		250.00	\$ 229.65
01/13/2024	472 - SNOW REMOVAL	Multiple	022		2,400.00	\$ 2,205.12
01/13/2024	472 - SNOW REMOVAL	Multiple	022		4,458.00	\$ 4,096.46
01/14/2024	472 - SNOW REMOVAL	Multiple	022		1,842.00	\$ 1,692.43
01/14/2024	472 - SNOW REMOVAL	Multiple	022		1,236.00	\$ 1,135.64
01/15/2024	472 - SNOW REMOVAL	Multiple	022		180.00	\$ 165.40
02/24/2024	472 - SNOW REMOVAL	Multiple	022		830.00	\$ 762.69
03/15/2024	472 - SNOW REMOVAL	Multiple	022		2,000.00	\$ 1,837.80



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
03/21/2024	470 - PREP SNOW REMOVAL		022		1,000.00	\$ 918.90
03/22/2024	472 - SNOW REMOVAL	Multiple	022		1,439.00	\$ 1,322.15
Location 022 Totals					15,635.00	\$ 14,366.23
12/31/2023	472 - SNOW REMOVAL		031	MARTINEZ, GERARDO X	770.00	\$ 658.35
01/01/2024	472 - SNOW REMOVAL		031	PROVENZANO, JAMES R	430.00	\$ 367.65
01/03/2024	472 - SNOW REMOVAL		031	PROVENZANO, JAMES R	540.00	\$ 461.70
01/03/2024	472 - SNOW REMOVAL		031	PROVENZANO, JAMES R	240.00	\$ 205.20
01/07/2024	472 - SNOW REMOVAL		031	MARTINEZ, GERARDO X	130.00	\$ 111.15
01/13/2024	472 - SNOW REMOVAL		031	PROVENZANO, JAMES R	72.00	\$ 56.40
01/13/2024	472 - SNOW REMOVAL		031	MARTINEZ, GERARDO X	110.00	\$ 94.05
01/15/2024	472 - SNOW REMOVAL		031	MARTINEZ, GERARDO X	46.00	\$ 39.33
01/19/2024	472 - SNOW REMOVAL		031	MARTINEZ, GERARDO X	54.00	\$ 46.17
02/16/2024	472 - SNOW REMOVAL		031	PROVENZANO, JAMES R	35.00	\$ 29.92
02/16/2024	472 - SNOW REMOVAL		031	MARTINEZ, GERARDO X	260.00	\$ 222.30
02/24/2024	472 - SNOW REMOVAL		031	PROVENZANO, JAMES R	806.00	\$ 689.13
02/28/2024	472 - SNOW REMOVAL		031	MARTINEZ, GERARDO X	384.00	\$ 328.32
02/29/2024	472N - SNOW & ICE (NIGHT PATROL)		031	PROVENZANO, JAMES R	12.00	\$ 10.26
03/06/2024	472N - SNOW & ICE (NIGHT PATROL)		031	PROVENZANO, JAMES R	24.00	\$ 20.52
03/07/2024	472T - SNOW & ICE (PREWETTING W/LIQUID DEICER)		031	PROVENZANO, JAMES R	1,430.00	\$ 1,222.65
03/08/2024	472T - SNOW & ICE (PREWETTING W/LIQUID DEICER)		031	PROVENZANO, JAMES R	3,240.00	\$ 2,770.20
03/15/2024	470 - PREP SNOW REMOVAL		031	PROVENZANO, JAMES R	635.00	\$ 542.86
03/21/2024	472T - SNOW & ICE (PREWETTING W/LIQUID DEICER)		031	PROVENZANO, JAMES R	2,250.00	\$ 1,923.52
03/22/2024	472 - SNOW REMOVAL		031	MARTINEZ, GERARDO X	192.00	\$ 164.16
Location 031 Totals					11,660.00	\$ 9,963.85
01/13/2024	472 - SNOW REMOVAL	Multiple	032	WILSON, DEREK L	1,500.00	\$ 1,318.05
01/13/2024	472 - SNOW REMOVAL	Multiple	032	EDWARDS, MARK C	1,000.00	\$ 878.70
01/14/2024	472 - SNOW REMOVAL	Multiple	032	EDWARDS, MARK C	842.00	\$ 739.87
01/20/2024	472 - SNOW REMOVAL	Multiple	032	WILSON, DEREK L	500.00	\$ 439.35
Location 032 Totals					3,842.00	\$ 3,375.97
01/12/2024	472 - SNOW REMOVAL	Multiple	115	GRANA, PHILIP F	2,645.00	\$ 2,880.14
01/13/2024	472 - SNOW REMOVAL	Multiple	115	GARDANIER, RONALD W	3,824.00	\$ 4,163.95
01/14/2024	472 - SNOW REMOVAL	Multiple	115	GRANA, PHILIP F	3,500.00	\$ 3,810.80
01/14/2024	472 - SNOW REMOVAL	Multiple	115	McINTYRE, COLIN S	2,805.00	\$ 3,054.36
01/15/2024	472 - SNOW REMOVAL	Multiple	115	GARDANIER, RONALD W	537.00	\$ 584.69
01/19/2024	472 - SNOW REMOVAL	Multiple	115	McINTYRE, COLIN S	350.00	\$ 381.12



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
Location 115 Totals					13,661.00	\$ 14,875.06
01/13/2024	472 - SNOW REMOVAL		115A		530.00	\$ 429.30
01/14/2024	472 - SNOW REMOVAL		115A		550.00	\$ 445.50
Location 115A Totals					1,080.00	\$ 874.80
11/01/2023	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	30.00	\$ 32.83
01/14/2024	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	1,000.00	\$ 990.30
01/14/2024	472 - SNOW REMOVAL	Multiple	116	QUILL, TIMOTHY J	865.00	\$ 856.61
01/15/2024	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	600.00	\$ 594.24
01/16/2024	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	100.00	\$ 99.03
01/17/2024	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	500.00	\$ 495.15
01/18/2024	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	400.00	\$ 396.16
01/19/2024	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	2,000.00	\$ 1,980.80
01/19/2024	472 - SNOW REMOVAL	Multiple	116	QUILL, TIMOTHY J	605.00	\$ 599.13
01/20/2024	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	200.00	\$ 198.06
01/23/2024	472 - SNOW REMOVAL	Multiple	116	QUILL, TIMOTHY J	40.00	\$ 39.61
03/22/2024	472 - SNOW REMOVAL	Multiple	116	DUKAS, SHANE G	150.00	\$ 185.74
03/22/2024	472 - SNOW REMOVAL	Multiple	116	QUILL, TIMOTHY J	700.00	\$ 866.81
Location 116 Totals					7,190.00	\$ 7,334.47
10/31/2023	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	90.00	\$ 73.84
10/31/2023	472 - SNOW REMOVAL	Multiple	117	CIFONIE, NICK X	270.00	\$ 221.51
11/01/2023	472 - SNOW REMOVAL	Multiple	117	CIFONIE, NICK X	300.00	\$ 246.12
11/01/2023	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	1,170.00	\$ 959.87
11/26/2023	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	92.00	\$ 75.48
11/27/2023	472 - SNOW REMOVAL	Multiple	117	OLEKSY, STEVEN M	1,170.00	\$ 959.75
12/05/2023	472 - SNOW REMOVAL	Multiple	117	CIFONIE, NICK X	600.00	\$ 492.48
12/31/2023	472 - SNOW REMOVAL	Multiple	117	CIFONIE, NICK X	1,200.00	\$ 984.48
01/03/2024	472 - SNOW REMOVAL		117	POLLACK, STEVEN T	62.00	\$ 50.86
01/03/2024	472 - SNOW REMOVAL	Multiple	117	OLEKSY, STEVEN M	1,200.00	\$ 984.48
01/06/2024	472 - SNOW REMOVAL		117	CIFONIE, NICK X	1,200.00	\$ 984.48
01/07/2024	472 - SNOW REMOVAL	Multiple	117	OLEKSY, STEVEN M	811.00	\$ 665.34
01/09/2024	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	1,500.00	\$ 1,230.60
01/10/2024	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	3,000.00	\$ 2,461.20
01/11/2024	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	428.00	\$ 351.09
01/11/2024	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	1,200.00	\$ 984.36
01/12/2024	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	1,100.00	\$ 902.33



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
01/12/2024	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	2,100.00	\$ 1,722.63
01/13/2024	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	1,500.00	\$ 1,230.30
01/13/2024	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	750.00	\$ 615.22
01/14/2024	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	200.00	\$ 164.06
01/14/2024	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	1,000.00	\$ 820.30
01/15/2024	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	500.00	\$ 410.10
01/15/2024	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	1,000.00	\$ 820.30
01/17/2024	472 - SNOW REMOVAL	Multiple	117	CIFONIE, NICK X	800.00	\$ 656.24
01/18/2024	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	860.00	\$ 846.41
01/18/2024	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	600.00	\$ 590.52
01/20/2024	472 - SNOW REMOVAL	Multiple	117	GRANA, ANTHONY K	440.00	\$ 433.05
03/22/2024	472 - SNOW REMOVAL	Multiple	117	CIFONIE, NICK X	550.00	\$ 453.86
04/03/2024	472 - SNOW REMOVAL	Multiple	117	POLLACK, STEVEN T	750.00	\$ 618.90

Location 117 Totals 26,443.00 \$ 22,010.16

11/26/2023	472 - SNOW REMOVAL	Multiple	127	SCHON, MARK A	90.00	\$ 78.83
12/31/2023	472B - SNOW REMOVAL - NIGHT WORK - 8 HOURS	Multiple	127	ACOSTA VARGAS, HARVEY E	148.00	\$ 137.39
01/03/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	49.00	\$ 45.49
01/06/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	155.00	\$ 143.89
01/06/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	1,021.00	\$ 947.79
01/07/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	414.00	\$ 384.32
01/09/2024	472 - SNOW REMOVAL	Multiple	127	SCHON, MARK A	2,212.00	\$ 2,120.20
01/09/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	564.00	\$ 523.56
01/10/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	212.00	\$ 203.20
01/11/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	182.00	\$ 174.45
01/13/2024	472 - SNOW REMOVAL	Multiple	127	SCHON, MARK A	583.00	\$ 558.81
01/13/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	753.00	\$ 721.75
01/14/2024	472 - SNOW REMOVAL	Multiple	127	SCHON, MARK A	672.00	\$ 644.11
01/14/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	1,057.00	\$ 1,013.13



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
01/18/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	268.00	\$ 256.88
01/19/2024	472 - SNOW REMOVAL	Multiple	127	SCHON, MARK A	424.00	\$ 406.40
01/19/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	1,093.00	\$ 1,047.64
01/20/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	273.00	\$ 261.67
01/22/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	203.00	\$ 194.58
01/22/2024	472B - SNOW REMOVAL - NIGHT WORK - 8 HOURS	Multiple	127	ACOSTA VARGAS, HARVEY E	91.00	\$ 87.22
01/23/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	84.00	\$ 80.51
01/23/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	655.00	\$ 627.82
02/01/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	250.00	\$ 246.75
02/01/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	100.00	\$ 98.70
02/02/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	100.00	\$ 98.70
02/03/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	500.00	\$ 493.50
02/03/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	100.00	\$ 98.70
02/04/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	100.00	\$ 98.69
02/04/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	100.00	\$ 98.70
02/05/2024	472 - SNOW REMOVAL	Multiple	127	SCHON, MARK A	150.00	\$ 148.05
02/05/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	150.00	\$ 148.04
02/16/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	800.00	\$ 789.60
02/16/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	100.00	\$ 98.69
02/16/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	200.00	\$ 197.38
02/20/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	200.00	\$ 197.38
02/20/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	100.00	\$ 98.69
02/23/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	100.00	\$ 98.69
02/24/2024	472P - NIGHT SHIFT WORKS FOR SECOND TIME IN 24 HOURS (ALLOWS FOR MATERIAL & EQUIPMENT ENTRY)	Multiple	127	ACOSTA VARGAS, HARVEY E	1,097.00	\$ 1,099.30
02/28/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	200.00	\$ 200.42
03/15/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	127	LEWIS, RONALD A	2,500.00	\$ 2,505.25
03/18/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	127	ACOSTA VARGAS, HARVEY E	3,620.00	\$ 3,627.60
03/21/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	127	ACOSTA VARGAS, HARVEY E	1,500.00	\$ 1,503.15
03/22/2024	472 - SNOW REMOVAL	Multiple	127	LEWIS, RONALD A	507.00	\$ 508.12
03/26/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	127	LEWIS, RONALD A	350.00	\$ 350.77



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
03/27/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	350.00	\$ 350.74
03/28/2024	472N - SNOW & ICE (NIGHT PATROL)	Multiple	127	ACOSTA VARGAS, HARVEY E	300.00	\$ 300.66
04/03/2024	472 - SNOW REMOVAL	Multiple	127	SCHON, MARK A	500.00	\$ 501.05
Location 127 Totals					25,177.00	\$ 24,616.95
11/26/2023	472 - SNOW REMOVAL	Multiple	128	GARCIA, MAURO	355.00	\$ 331.78
11/27/2023	472 - SNOW REMOVAL	Multiple	128	LIAROMATIS, MICHAEL J	51.00	\$ 47.66
12/31/2023	472 - SNOW REMOVAL	Multiple	128	GARCIA, MAURO	50.00	\$ 47.67
01/09/2024	472 - SNOW REMOVAL	Multiple	128	MARRERO, JOSHUA	205.00	\$ 195.45
01/12/2024	472 - SNOW REMOVAL	Multiple	128	MARRERO, JOSHUA	200.00	\$ 190.68
01/13/2024	472 - SNOW REMOVAL	Multiple	128	MARRERO, JOSHUA	868.00	\$ 827.55
01/13/2024	472 - SNOW REMOVAL	Multiple	128	LIAROMATIS, MICHAEL J	1,070.00	\$ 1,020.14
01/14/2024	472 - SNOW REMOVAL	Multiple	128	MARRERO, JOSHUA	302.00	\$ 287.96
01/14/2024	472 - SNOW REMOVAL	Multiple	128	LIAROMATIS, MICHAEL J	542.00	\$ 516.80
01/15/2024	472 - SNOW REMOVAL	Multiple	128	LIAROMATIS, MICHAEL J	425.00	\$ 405.20
01/15/2024	472 - SNOW REMOVAL	Multiple	128	MARRERO, JOSHUA	14.00	\$ 13.35
01/18/2024	472 - SNOW REMOVAL	Multiple	128	LIAROMATIS, MICHAEL J	833.00	\$ 794.27
01/19/2024	472 - SNOW REMOVAL	Multiple	128	MARRERO, JOSHUA	495.00	\$ 471.98
01/19/2024	472 - SNOW REMOVAL	Multiple	128	LIAROMATIS, MICHAEL J	1,385.00	\$ 1,320.46
01/20/2024	472 - SNOW REMOVAL	Multiple	128	LIAROMATIS, MICHAEL J	49.00	\$ 46.72
02/23/2024	472X - SNOW & ICE (ANTI-ICING W/LIQUID DEICER)	Multiple	128	GARCIA, MAURO	300.00	\$ 286.05
02/24/2024	472 - SNOW REMOVAL	Multiple	128	LIAROMATIS, MICHAEL J	89.00	\$ 84.86
03/07/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	128	MARRERO, JOSHUA	250.00	\$ 238.38
03/15/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	128	MARRERO, JOSHUA	350.00	\$ 333.69
03/18/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	128	MARRERO, JOSHUA	425.00	\$ 405.24
03/20/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	128	MARRERO, JOSHUA	400.00	\$ 381.36
03/21/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	128	MARRERO, JOSHUA	300.00	\$ 286.05
03/22/2024	472 - SNOW REMOVAL	Multiple	128	GARCIA, MAURO	300.00	\$ 286.02
03/22/2024	472 - SNOW REMOVAL	Multiple	128	GARCIA, MAURO	150.00	\$ 143.02
03/26/2024	472F - SNOW & ICE (FROST PREVENTION W/LIQUID DEICERS)	Multiple	128	GARCIA, MAURO	1,035.00	\$ 986.77
04/03/2024	472 - SNOW REMOVAL	Multiple	128	MARRERO, JOSHUA	200.00	\$ 190.70
Location 128 Totals					10,643.00	\$ 10,139.79
10/31/2023	472 - SNOW REMOVAL	Multiple	129		50.00	\$ 50.10
11/26/2023	472 - SNOW REMOVAL	Multiple	129		20.00	\$ 20.04
01/09/2024	472 - SNOW REMOVAL	Multiple	129		300.00	\$ 303.63



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
01/13/2024	472 - SNOW REMOVAL	Multiple	129		405.00	\$ 409.86
01/19/2024	472 - SNOW REMOVAL	Multiple	129		265.00	\$ 268.18
Location 129 Totals					1,040.00	\$ 1,051.81
01/13/2024	472 - SNOW REMOVAL	Multiple	135	REED, MICHAEL	25.00	\$ 23.50
01/14/2024	472 - SNOW REMOVAL	Multiple	135	REED, MICHAEL	47.00	\$ 44.18
01/15/2024	472 - SNOW REMOVAL		135	SIMPKIN, ERIC S	50.00	\$ 47.00
01/15/2024	472 - SNOW REMOVAL	Multiple	135	REED, MICHAEL	20.00	\$ 18.80
01/19/2024	472 - SNOW REMOVAL	Multiple	135	SIMPKIN, ERIC S	165.00	\$ 155.12
Location 135 Totals					307.00	\$ 288.61
01/05/2024	472 - SNOW REMOVAL		136	WALLACE, MICHAEL E	1,266.00	\$ 1,280.69
01/06/2024	472 - SNOW REMOVAL		136	MIX, TRACY W	1,450.00	\$ 1,466.96
01/12/2024	472 - SNOW REMOVAL		136	MIX, TRACY W	2,972.00	\$ 3,006.77
01/12/2024	472 - SNOW REMOVAL		136	GUZMAN, FRANCISCO X	3,000.00	\$ 3,034.80
01/13/2024	472 - SNOW REMOVAL		136	MIX, TRACY W	1,000.00	\$ 1,011.60
01/13/2024	472 - SNOW REMOVAL		136	WALLACE, MICHAEL E	1,000.00	\$ 1,011.60
01/14/2024	472 - SNOW REMOVAL		136	MIX, TRACY W	1,000.00	\$ 1,011.70
Location 136 Totals					11,688.00	\$ 11,824.12
01/12/2024	472 - SNOW REMOVAL	Multiple	137	TOMAC, ANDREW S	400.00	\$ 312.00
01/12/2024	472 - SNOW REMOVAL	Multiple	137	BURGARD, CHRISTOPHER J	400.00	\$ 312.00
01/12/2024	472 - SNOW REMOVAL	Multiple	137	ZEKO, JOSEPH M	400.00	\$ 312.00
01/12/2024	472 - SNOW REMOVAL	Multiple	137	KLIMECKO, KEVIN X	400.00	\$ 312.00
01/14/2024	472 - SNOW REMOVAL	Multiple	137	ZEKO, JOSEPH M	400.00	\$ 312.00
01/19/2024	472 - SNOW REMOVAL	Multiple	137	BURGARD, CHRISTOPHER J	200.00	\$ 156.00
01/19/2024	472 - SNOW REMOVAL	Multiple	137	ZEKO, JOSEPH M	200.00	\$ 156.00
01/20/2024	472 - SNOW REMOVAL	Multiple	137	ZEKO, JOSEPH M	200.00	\$ 156.00
01/22/2024	472 - SNOW REMOVAL	Multiple	137	ZEKO, JOSEPH M	500.00	\$ 390.00
01/22/2024	472 - SNOW REMOVAL	Multiple	137	BURGARD, CHRISTOPHER J	500.00	\$ 390.00
Location 137 Totals					3,600.00	\$ 2,808.00
01/14/2024	472 - SNOW REMOVAL		137A		300.00	\$ 234.00
01/19/2024	472 - SNOW REMOVAL		137A		200.00	\$ 156.00
Location 137A Totals					500.00	\$ 390.00
01/19/2024	472 - SNOW REMOVAL		170		252.00	\$ 196.56
Location 170 Totals					252.00	\$ 196.56
01/09/2024	472 - SNOW REMOVAL	Multiple	E13		126.00	\$ 98.61
01/11/2024	472 - SNOW REMOVAL	Multiple	E13		25.00	\$ 19.56



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
01/12/2024	472 - SNOW REMOVAL	Multiple	E13		50.00	\$ 39.13
01/13/2024	472 - SNOW REMOVAL	Multiple	E13		350.00	\$ 273.91
01/13/2024	472 - SNOW REMOVAL	Multiple	E13		270.00	\$ 211.30
01/14/2024	472 - SNOW REMOVAL	Multiple	E13		494.00	\$ 386.60
01/15/2024	472 - SNOW REMOVAL	Multiple	E13		25.00	\$ 19.56
01/18/2024	472 - SNOW REMOVAL	Multiple	E13		100.00	\$ 78.26
01/19/2024	472 - SNOW REMOVAL	Multiple	E13		75.00	\$ 58.70
01/19/2024	472 - SNOW REMOVAL	Multiple	E13		623.00	\$ 487.56
01/23/2024	472 - SNOW REMOVAL	Multiple	E13		100.00	\$ 78.26
02/24/2024	472 - SNOW REMOVAL	E13006	E13		316.00	\$ 247.30
Location E13 Totals					2,554.00	\$ 1,998.76
01/08/2024	472X - SNOW & ICE (ANTI-ICING W/LIQUID DEICER)	Multiple	E14	DIVENERE, NICHOLAS D	350.00	\$ 354.24
01/13/2024	472 - SNOW REMOVAL	Multiple	E14	DIVENERE, NICHOLAS D	225.00	\$ 227.72
01/14/2024	472 - SNOW REMOVAL	Multiple	E14	DIVENERE, NICHOLAS D	580.00	\$ 587.02
01/15/2024	472 - SNOW REMOVAL	Multiple	E14		20.00	\$ 20.24
01/23/2024	472 - SNOW REMOVAL	Multiple	E14	KRAWCZYNSKI, GREGORY S	500.00	\$ 506.05
02/16/2024	472 - SNOW REMOVAL	Multiple	E14	DEMOS, STEVEN M	50.00	\$ 50.60
02/23/2024	472X - SNOW & ICE (ANTI-ICING W/LIQUID DEICER)	Multiple	E14	DIVENERE, NICHOLAS D	600.00	\$ 607.26
03/15/2024	472X - SNOW & ICE (ANTI-ICING W/LIQUID DEICER)	Multiple	E14	DIVENERE, NICHOLAS D	200.00	\$ 202.42
03/18/2024	472X - SNOW & ICE (ANTI-ICING W/LIQUID DEICER)	Multiple	E14		200.00	\$ 202.42
03/21/2024	472X - SNOW & ICE (ANTI-ICING W/LIQUID DEICER)	Multiple	E14	DIVENERE, NICHOLAS D	300.00	\$ 303.63
04/03/2024	472 - SNOW REMOVAL	Multiple	E14	DEMOS, STEVEN M	400.00	\$ 404.84
Location E14 Totals					3,425.00	\$ 3,466.44
01/04/2024	472 - SNOW REMOVAL		E23	WAKEFIELD, LUTHER A	500.00	\$ 423.00
01/06/2024	472 - SNOW REMOVAL		E23	WAKEFIELD, LUTHER A	50.00	\$ 42.30
01/07/2024	472 - SNOW REMOVAL		E23	WAKEFIELD, LUTHER A	50.00	\$ 42.30
01/09/2024	472 - SNOW REMOVAL		E23	GATES, ANTHONY M	300.00	\$ 253.80
01/09/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	350.00	\$ 296.10
01/10/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	250.00	\$ 211.50
01/11/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	300.00	\$ 253.80
01/12/2024	472 - SNOW REMOVAL		E23	MUSANOVIC, ARMEN X	150.00	\$ 126.90
01/12/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	150.00	\$ 126.90
01/13/2024	472 - SNOW REMOVAL		E23	MUSANOVIC, ARMEN X	400.00	\$ 338.40
01/13/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	450.00	\$ 380.70



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
01/14/2024	472 - SNOW REMOVAL		E23	MUSANOVIC, ARMEN X	200.00	\$ 169.20
01/14/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	425.00	\$ 359.55
01/15/2024	472 - SNOW REMOVAL		E23	MUSANOVIC, ARMEN X	50.00	\$ 42.30
01/15/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	50.00	\$ 42.30
01/16/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	25.00	\$ 21.15
01/19/2024	472 - SNOW REMOVAL		E23	BARRERA, PEDRO A	500.00	\$ 423.00
01/23/2024	472 - SNOW REMOVAL		E23	WAKEFIELD, LUTHER A	300.00	\$ 253.80
02/16/2024	472 - SNOW REMOVAL		E23	MUSANOVIC, ARMEN X	800.00	\$ 713.28
02/23/2024	480 - TRUCK MAINTENANCE		E23	MUSANOVIC, ARMEN X	1,000.00	\$ 891.60
02/24/2024	472 - SNOW REMOVAL		E23	WAKEFIELD, LUTHER A	2,050.00	\$ 1,827.78
02/28/2024	472 - SNOW REMOVAL		E23	GATES, ANTHONY M	800.00	\$ 713.28
03/07/2024	448 - RD PATROL&CLEANUP		E23	MUSANOVIC, ARMEN X	2,000.00	\$ 1,783.20
03/08/2024	482 - HEADQUARTERS & YARD MAINTENANCE		E23	MUSANOVIC, ARMEN X	2,200.00	\$ 1,961.52
03/11/2024	482 - HEADQUARTERS & YARD MAINTENANCE		E23	MUSANOVIC, ARMEN X	3,000.00	\$ 2,674.80
03/12/2024	482 - HEADQUARTERS & YARD MAINTENANCE		E23	GATES, ANTHONY M	2,000.00	\$ 1,783.40
Location E23 Totals					18,350.00	\$ 16,155.86
11/26/2023	472 - SNOW REMOVAL	Multiple	E24		45.00	\$ 35.10
01/12/2024	472 - SNOW REMOVAL	Multiple	E24		400.00	\$ 312.00
01/13/2024	472 - SNOW REMOVAL	Multiple	E24		124.00	\$ 96.72
01/19/2024	472 - SNOW REMOVAL	Multiple	E24		100.00	\$ 78.00
01/23/2024	472 - SNOW REMOVAL	Multiple	E24		72.00	\$ 56.16
Location E24 Totals					741.00	\$ 577.98
01/13/2024	472 - SNOW REMOVAL	Multiple	E26	CASTANEDA, FRANK	518.00	\$ 514.01
01/14/2024	472 - SNOW REMOVAL	Multiple	E26	CASTANEDA, FRANK	1,208.00	\$ 1,198.70
01/14/2024	472 - SNOW REMOVAL	Multiple	E26	KOHN, ROBERT W	321.00	\$ 318.53
02/23/2024	472 - SNOW REMOVAL	Multiple	E26	KOHN, ROBERT W	2,072.00	\$ 2,056.05
02/24/2024	472 - SNOW REMOVAL	Multiple	E26	CASTANEDA, FRANK	270.00	\$ 267.92
02/28/2024	472 - SNOW REMOVAL	Multiple	E26	KOHN, ROBERT W	3,630.00	\$ 3,602.05
03/15/2024	472 - SNOW REMOVAL	Multiple	E26	KOHN, ROBERT W	2,020.00	\$ 2,004.45
03/21/2024	472 - SNOW REMOVAL	Multiple	E26	KOHN, ROBERT W	2,070.00	\$ 2,054.06
03/22/2024	472 - SNOW REMOVAL	Multiple	E26	KOHN, ROBERT W	930.00	\$ 922.84
Location E26 Totals					13,039.00	\$ 12,938.60
01/13/2024	472 - SNOW REMOVAL	Multiple	E33	KING, CHARLES R	210.00	\$ 201.37
01/14/2024	472 - SNOW REMOVAL	Multiple	E33	CHEARS, RANEY J	200.00	\$ 191.78
Location E33 Totals					410.00	\$ 393.15



Material Usage by Material Code (R043)

10/30/23 thru 04/30/24

Admin Unit: DISTRICT 1 (All)

Material Master Code: 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Activity: All

37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)

Work Date	Activity	Location	Used From	Lead Worker	Material Usage	Total Material Cost
01/06/2024	472 - SNOW REMOVAL	Multiple	E34	LANGON JR, LEE	150.00	\$ 117.00
03/22/2024	472 - SNOW REMOVAL	Multiple	E34	WINTON, MICHAEL L	1,150.00	\$ 1,048.92
03/22/2024	472 - SNOW REMOVAL	Multiple	E34	WINTON, MICHAEL L	300.00	\$ 273.63
Location E34 Totals					1,600.00	\$ 1,439.54
Total 37800006 - SALT BRINE, 10% CaCL (HB) (Gallon)					203,550.00	\$ 190,007.47

DISTRICT 1 (All) Totals

\$ 190,007.47

**Deicing Chemical Application Guidelines
(Traditional Snow and Ice Vehicle)**

SC-33

This guide is not meant to be a substitute for the use of judgement and the observation of the result of treatments on existing conditions. It is meant to show various variables which usually occur together and the treatment that has proven to be the most successful the majority of the time in those cases. There are several factors not mentioned which will greatly affect the treatment of the pavement: Day or night, sunny or cloudy, after snowfall ends, low or high winds, etc....This guide should then be used as the start of the analysis being made to decide on the actual best fitting course of action for the existing conditions.

Weather Conditions			Maximum Application Rate (Pounds of Material Per Lane Mile of Pavement)		
Temperature	Pavement Conditions	Precipitation	Expressway	Primary	Remarks
30F and Above	Wet	Snow	250#	150#	Allow chemicals to work at least 1/2 hour before plowing.
		Sleet or Freezing Rain	300#	200#	Reapply as necessary.
25 - 30F	Wet	Snow or Sleet	300#	250#	Allow chemicals to work at least 1/2 hr before plowing, repeat.
		Freezing Rain	400#	300#	Repeat as necessary.
20 -25F *	Wet	Snow or Sleet	350#	300#	Allow chemicals to work at least 3/4 hour before plowing, repeat
		Freezing Rain	400#	350#	Repeat as necessary
15 - 20F *	Dry	Dry Snow	Plow	Plow	Treat hazardous locations with chemicals only if snow is already sticking.
	Wet	Wet Snow or Sleet	350# w/ 3 gal/ton, CaCl	250# w/ 3 gal/ton, CaCl	Allow chemicals to work for at least 1 hour before plowing; continue plowing until storm ends; repeat application.
5 - 15 F*	Dry	Dry Snow	Plow	Plow	Treat hazardous locations with chemicals only if snow is already sticking.
	Wet	Wet Snow or Sleet	450# w/ 6 gal/ton, CaCl	350# w/ 6 gal/ton, CaCl	Allow chemicals to work for at least 1 hour before plowing; continue plowing until storm ends; repeat application.
Below 5 F *	With extremely cold temps the emphasis will be on plowing operations, applying chemicals only at intersections, hills, curves, bridgedecks and other problematic areas and then only apply if snow is already sticking.			At temperatures of 5 F and below, chemical treatment will produce little results.	

Deicing Chemical Application Guidelines (Slurry Generator and Spray Vehicle)

This guide is not meant to be a substitute for the use of judgement and the observation of the result of treatments on existing conditions. It is meant to show various variables which usually occur together and the treatment that has proven to be the most successful the majority of the time in those cases. There are several factors not mentioned which will greatly affect the treatment of the pavement: Day or night, sunny or cloudy, after snowfall ends, low or high winds, etc....This guide should then be used as the start of the analysis being made to decide on the actual best fitting course of action for the existing conditions.

Weather Conditions			Maximum Application Rate (Gallons of Material Per Minute or Travel)		
Temperature	Pavement Conditions	Precipitation	Slurry Generator (Applying Agricultural mixture)	Spray Truck (Applying Agricultural mixture)	Remarks
30F and Above	Wet	Snow	13 gallons liquid per Lanemile 200 lbs rock salt per Lanemile	20 Gallons per minute	Allow chemicals to work at least 1/2 hour before plowing.
		Sleet or Freezing Rain	13 gallons liquid per Lanemile 200 lbs rock salt per Lanemile	20 Gallons per minute	Reapply as necessary.
25 - 30F	Wet	Snow or Sleet	13 gallons liquid per Lanemile 200 lbs rock salt per Lanemile	20 Gallons per minute	Allow chemicals to work at least 1/2 hour before plowing, repeat.
		Freezing Rain	13 gallons liquid per Lanemile 200 lbs rock salt per Lanemile	20 Gallons per minute	Repeat as necessary.
20 -25F *	Wet	Snow or Sleet	13 gallons liquid per Lanemile 200 lbs rock salt per Lanemile	30 Gallons per minute	Allow chemicals to work at least 3/4 hour before plowing, repeat
		Freezing Rain	13 gallons liquid per Lanemile 200 lbs rock salt per Lanemile	30 Gallons per minute	Repeat as necessary
15 - 20F *	Dry	Dry Snow	Plow	Plow	Treat hazardous locations with chemicals only if snow is already sticking.
	Wet	Wet Snow or Sleet	13 gallons liquid per Lanemile 200 lbs rock salt per Lanemile	40 Gallons per minute	Allow chemicals to work for at least 1 hour before plowing: continue plowing until storm ends; repeat application.
5 - 15 F*	Dry	Dry Snow	Plow	Plow	Treat hazardous locations with chemicals only if snow is already sticking.
	Wet	Wet Snow or Sleet	13 gallons liquid per Lanemile 200 lbs rock salt per Lanemile	50 Gallons per minute	Allow chemicals to work for at least 1 hour before plowing: continue plowing until storm ends; repeat application.
Below 5 F *	With extremely cold temps the emphasis will be on plowing operations, applying chemicals only at intersections, hills, curves, bridgedecks and other problematic areas and then only apply if snow is already sticking.			At temperatures of -10 F and below, chemical treatment will produce little results.	

Appendix 3

Agency Name: Illinois Department of Transportation District One																						
Call Out Information				Weather				Materials Used				Application Rates and Methods (list all used)						Other Information				
Date of Call Out	Call Out Time	Completion Date	Completion Time	Precipitation Type	Precipitation Forecast Amount	Pavement Temperatures	Pavement Conditions	Other Weather Info: (examples of info to include: pavement temps rising or falling, air temps, wind, blowing snow, length of storm, heavy snow, light snow, frost, duration of event, etc)	Types of Deicing Agent Used (example: rock salt, calcium chloride, etc)	Dry Solids, Pre-wetted or pretreated solids, Liquids?	Amount of Dry Material Used (including Roads, Parking Lots, Sidewalks, etc)	Amount of Pre-Wetted/Pretreated Material Used (including Roads, Parking Lots, Sidewalks, etc)	Amount of Liquid Used (including Roads, Parking Lots, Sidewalks, etc)	Application Rates used for Dry Solids	Application Rates used for Pre-wetted or Pretreated Solids	Application Rates used for Liquids	Type of Application (Examples: Anti-icing, Deicing, etc)	How many lane miles and/or square feet or parking lots and sidewalks were treated?	How many deicer and/or anti-icing application passes were made?	Were mechanical methods (plowing, scraping, sweeping, etc) used before applying deicer materials?	Did the application rate change during the event? If yes, why?	How well did the deicing/anti-icing application work? Notes
10/31/2023	7:30 AM	10/31/2023	10:30 AM	Snow showers	Less than 1/4"	Storm 1	Ice	Central Yards + St. Charles Yard, Gusting 22-28 mph	Salt	Pre-wetted	N/A	452	205	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
10/31/2023	2:40 PM	11/1/2023	2:30 AM	Snow showers	Less than 1/4"	Storm 2	Ice	Freezeback & Gusts	Salt	Pre-wetted	N/A	1044.5	1705	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
11/26/2023	3:00 AM	11/27/2024	6:30 AM	Snow showers	1"	Storm 3	Snow & Ice	Freezeback, Drifting & Gusts	Salt	Pre-wetted	N/A	5171	2795	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
12/4/2023	12:00 AM	12/5/2023	9:40 AM	Wet snow	less than 1/2"	Storm 4	Wet Snow	Wind South-Southeast 6-10 mph	Salt	Pre-wetted	N/A	1808.5	600	N/A	Varied	Varied	Varied	10252	Varied	Yes	No	Successful
12/18/2023	3:00 AM	12/18/2023	10:20 AM	Snow showers	Less than 1/4"	Storm 5	Snow	Wind West-Northwest 10-15 mph, gusts 30-40 mph	Salt	Pre-wetted	N/A	569	0	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
12/28/2023	7:55 AM	12/28/2023	12:01 PM	Snow showers	Less than 1/4"	Storm 6	Snow	Wind North 12-16 mph, gusting 19-25 mph	Salt	Pre-wetted	N/A	10	0	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
12/29/2023	12:30 AM	12/30/2023	10:00 AM	Frost	None	Frost 102	Frost	Wind West 3-6 mph				57.26	0	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
12/30/2023	12:00 AM	1/1/2024	8:30 AM	Snow showers	Trace Ammounts	Storm 7	Snow	Wind North-Northwest 5-8 mph	Salt	Pre-wetted	N/A	4047	2900	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
1/3/2024	9:00 PM	1/3/2024	8:35 AM	Snow showers & freezing drizzle	trace of ice	Storm 8	Rain and Snow	Wind West-Northwest 4-7 mph	Salt	Pre-wetted	N/A	678.65	1260.5	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
1/3/2024	5:00 PM	1/4/2024	3:15 AM	Snow showers & freezing drizzle	Less than 1/4"	Storm 9	Rain and Snow	Wind Northwest to North 7-11 mph	Salt	Pre-wetted	N/A	1072	1760.5	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
1/5/2024	11:30 PM	1/6/2024	11:10 AM	Snow showers	Less than 1"	Storm 10	Snow	Wind Southeast 6-10 mph	Salt	Pre-wetted	N/A	7623.5	1266	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
1/6/2024	4:00 PM	1/7/2024	9:15 AM	Snow showers & freezing drizzle	Trace	Storm 11	Snow	Wind West 6-10 mph	Salt	Pre-wetted	N/A	3158	7116	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
1/8/2024	8:00 PM	1/10/2024	7:45 AM	Snow Showers	Less than 1"	Storm 12	Snow	Wind North-Northwest 13-17 mph to 19-25 mph, gusts 30-40 mph	Salt	Pre-wetted	N/A	15811	11984	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
1/10/2024	9:00 PM	1/11/2024	8:30 AM	Snow showers	Less than 1"	Storm 13	Snow	Wind South shifting West 8-12 mph, gusts 17-23 mph	Salt	Pre-wetted	N/A	2954.5	2385	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
1/12/2024	2:00 AM	1/13/2024	9:45 AM	Snow	Less than 1"	Storm 14	Wet Snow	Wind Northwest 13 to 17 mph	Salt	Pre-wetted	N/A	18391.75	15767	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
1/13/2024	12:45 PM	1/14/2024	11:00 AM	snow	Less than 1"	Storm 15	Snow	Wind West-Northwest 13-25 mph, gusts 26-40 mph	Salt	Pre-wetted	N/A	10054.5	48193	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
1/16/2024	11:00 PM	1/18/2024	7:30 AM	Snow	Less than 1"	Storm 16	Snow	Wind West 6-10 mph	Salt	Pre-wetted	N/A	4357.9	8028	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
1/18/2024	2:35 AM	1/19/2024	10:15 AM	Snow	1 to 3"	Storm 17	Snow	Wind North-Northwest 7-11 mph, gusts 23-31 mph	Salt	Pre-wetted	N/A	9701	10428	N/A	Varied	Varied	Varied	10252	Varied	Yes	No	Successful
1/19/2024	3:00 PM	1/20/2024	4:15 AM	Snow Showers	Less than 1/4"	Storm 18	Snow	Wind Northwest 14-18 mph, gusts 22-28 mph	Salt	Pre-wetted	N/A	1599	1662	N/A	Varied	Varied	Varied	10252	Varied	Yes	No	Successful
1/22/2024	12:35 AM	1/24/2024	10:00 AM	Freezing Rain	None	Storm 19	Drizzle	Wind Northeast 4-7 mph	Salt	Pre-wetted	N/A	13101.1	4865	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
1/24/2024	10:30 PM	1/25/2024	8:10 AM	Freezing Rain	Trace of Ice	Storm 20	Freezing Rain	Wind Northeast 2-5 mph	Salt	Pre-wetted	N/A	622.5	1409	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
1/29/2024	1:55 AM	1/29/2024	9:00 AM	Frost	None	Frost 103	Frost	Wind West-Southwest 4-7 mph	Salt	Pre-wetted	N/A	9	1237	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/1/2024	2:55 AM	2/1/2024	9:00 AM	Frost	None	Frost 104	Frost	Wind Southwest 3-6 mph	Salt	Pre-wetted	N/A	119	350	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/2/2024	12:00 AM	2/3/2024	9:00 AM	Frost	None	Frost 105	Frost	Wind Southeast 4-7 mph	Salt	Pre-wetted	N/A	30.33	100	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/3/2024	12:00 AM	2/4/2024	9:00 AM	Frost	None	Frost 106	Frost	Wind Northeast 4-7 mph	Salt	Pre-wetted	N/A	60	600	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/4/2024	10:00 PM	2/5/2024	9:30 AM	Frost	None	Frost 107	Frost	Wind North-Northeast 5-9 mph	Salt	Pre-wetted	N/A	44	200	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/5/2024	12:01 AM	2/6/2024	11:00 AM	Frost	None	Frost 108	Frost	Wind Northeast 4-7 mph	Salt	Pre-wetted	N/A	25.5	300	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/6/2024	7:00 PM	2/7/2024	9:55 AM	Frost	None	Frost 109	Frost	none	Salt	Pre-wetted	N/A	141	0	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/11/2024	12:00 AM	2/12/2024	9:00 AM	Frost	None	Frost 110	Frost	Wind West-Southwest 0-4 mph	Salt	Pre-wetted	N/A	26.5	0	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/15/2024	12:01 AM	2/15/2024	6:55 AM	Wet snow	None	Storm 21	Wet snow	Wind East 8-12 mph	Salt	Pre-wetted	N/A	37	831	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
2/16/2024	8:00 AM	2/16/2024	2:15 PM	Snow showers	Less than 1/2"	Storm 22	Snow	Wind North 8-12 mph	Salt	Pre-wetted	N/A	167.5	831	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
2/16/2024	5:00 PM	2/16/2024	10:26 PM	Snow Flurries	Less than 1/4"	Storm 23	Snow	Wind Northwest 8-10 mph	Salt	Pre-wetted	N/A	167.5	833	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
2/19/2024	12:01 AM	2/20/2024	9:30 AM	Frost	None	Frost 111	Frost	Wind South-Southwest 3-6 mph	Salt	Pre-wetted	N/A	1	300	N/A	Varied	Varied	Varied	10252	Varied	No	No	Successful
2/23/2024	5:30 PM	2/24/2024	5:00 AM	Snow	Less than 1/2"	Storm 24	Snow	Wind Northeast 13-17 mph, gusts 23-31 mph	Salt	Pre-wetted	N/A	1929	10072	N/A	Varied	Varied	Varied	10252	Varied	Yes	No	Successful
2/27/2024	3:00 AM	2/28/2024	9:20 AM	Snow showers	Less than 1/4"	Storm 25	Snow	Wind Northwest 22-28 mph, Gusts 33-43 mph	Salt	Pre-wetted	N/A	760	8026	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
3/22/2024	1:00 AM	3/23/2024	6:20 AM	Snow Showers	Less than 1/4"	Storm 26	Snow	Wind North 6 to 10 mph	Salt	Pre-wetted	N/A	2199	53222	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful
4/2/2024	10:40 PM	4/3/2024	10:22 AM	Snow	Less than 1/2"	Storm 27	Snow	Wind West-Northwest 15-20 mph, gusts 24-32 mph	Salt	Pre-wetted	N/A	541	2319	N/A	Varied	Varied	Varied	10252	Varied	Varied	No	Successful

Appendix 4 - Annual Training

Role in Winter Operations	Training Topics Covered
Supervisors and Managers	2023 Snow and Ice Meeting - see attachment
Supervisors and Managers	2023 APWA 2023 Public Works Using Good Practices in Winter Maintenance - see attachment
Supervisors, Managers, Crew Leaders	Snow & Ice Kick-off Meeting - see attachment
Supervisors, Crew Leaders, and Operators	Salt Symposium Deicing Workshops
Operators	On-Job training of equipment and routes



2023 Snow and Ice Meeting

Northfield Center, Springfield IL.



Tuesday May 16

1:00	Welcome
1:30	MDSS practices and tools
2:30	Break
2:45	DTN Solutions
4:30	Adjourn

Wednesday May 17

8:00	Materials Use and Reporting
10:00	Break
10:15	Materials Testing
11:00	Material Storage
12:00	Lunch
1:00	Equipment
1:45	RWIS
3:00	Break
3:15	Materials & Services contracts:
3:45	District survey's
4:30	Adjourn

Thursday May 18

8:00	Personnel
9:15	Training
10:00	Break
10:15	Research
11:00	Priorities / Summary
12:00	Adjourn



2023 SNOW & ICE KICK OFF MEETING AGENDA

Location: D1 Lower Level Classroom
Date: Tuesday, October 31, 2023
Time: 8:00am

Agenda Items

- 8:00AM Welcoming Remarks/New Yard Tech Introductions – Erskine Klyce
- 8:15AM Bureau of Maintenance – Erskine Klyce
- 8:30AM Equipment – Rafael Gomez
- 8:45AM Salt & Receiving – Rafael Gomez
- 9:00AM Communication Center
- 9:15AM Personnel – Danielle Harrell
- 9:30AM Workers Comp – Danielle Harrell
- 9:45AM Labor Relations – Leigh Dunston & Rosie Rey
- 10:00AM Break
- 10:15AM BIC – Chris McClure
- 10:30AM Financial Services – Mike Brandys
- 10:45AM Safety – Paul Kluxen
- 11:00AM Claims – Wendy Van Duyne
- 11:15AM Wrap-Up – Erskine Klyce



2023 Public Works USING GOOD PRACTICES IN WINTER MAINTENANCE

Dates

Tuesday, August 15, 2022 // 7:00AM – 3:30PM
Wednesday, August 16, 2022 // 7:30AM – 2:00PM
(Operator's Winter Maintenance Certification)

Location

Medinah Shriners Banquet Facility
550 N Shriners Drive, Addison, IL 60101

Accommodations

Contact Kathrine Nixon at 319-400-5316 or by email at kathrine@psassoc.org.

Registration/Payment

Day 1 – \$95.00 Workshop
Day 2 – \$60.00 Operator's Certification
Days 1 & 2 – \$140 Workshop and Certification
Certificates for six Professional Development Hours will be awarded for program attendance.

How to Register

Please register ONLINE using the following link: <https://professionalsnowfightersassociation.org/events/>

APWA Winter Maintenance Operator's Certificate

The winter maintenance sub-committee of APWA has developed a half-day training for winter maintenance operators as a certificate program (so upon successful completion, attendees will receive a certificate). This covers the basics of winter maintenance, including materials, equipment, and operations. It is also consistent with the full-day training offered by APWA for winter maintenance supervisors.

Training on Wednesday August 16th is a stand-alone training. Registration for the certificate is \$60 (although if you register an individual for both the Workshop and Certification training, the combined cost is less than the per day cost combined). This is an excellent training program that helps agencies ensure all their operations staff are on the same and correct page for their winter maintenance operations.

AGENDA

Tuesday, August 15

- 7:00AM Registration and Light Breakfast**
- 7:30AM Welcome!**
- 7:45AM How to Limit Chlorine Impacts**
Allison Madison / Wisconsin Saltwise
- 8:30AM McHenry County DOT Winter Operations**
Bob Hensel and Austin Creasy / McHenry County
- 9:15AM Report on Winter Maintenance Activities**
TBA / Illinois Tollway Authority
- 9:45AM BREAK**
- 10:00AM Recruiting and Retaining Winter Maintenance Employees**
Dan Schacher / Alaska DOT
- 10:45AM Weather You Need to Know**
Jon Tarleton / Baron Weather
- 11:30AM Collecting and Using Information in Winter Maintenance**
Christy Bernal and Mark DeVries / Vaisala

12:00PM LUNCH – Vendor Talks

- 1:00PM Liquid Workshop Part 1: Getting Started with Liquids**
Jason Pauling / Village of Carol Stream, Dan Schacher / Alaska DOT, Greg Koeppel / Jefferson County, Mark DeVries / Vaisala, Wilf Nixon / PSA

2:00PM BREAK

- 2:15PM Liquid Workshop Part 2: Moving to the Next Level with Liquids**
Jason Pauling / Village of Carol Stream, Dan Schacher / Alaska DOT, Greg Koeppel / Jefferson County, Mark DeVries / Vaisala, Wilf Nixon / PSA

- 3:15PM Closing Thoughts and Wrap-Up**

Wednesday, August 16

PROPOSED AGENDA

- 7:30AM Registration and Light Breakfast**
- 7:45AM Welcome!**
- 8:00AM APWA Operators Winter Maintenance Certificate**
- Introduction and MC**
Wilf Nixon / PSA
- Equipment**
Dan Schacher / Alaska DOT and Mark DeVries / Vaisala
- Operations**
Jason Pauling / Village of Carol Stream and Scott Fontanez / Village of Buffalo Grove

LUNCH

- Wrap-Up**
Mark DeVries / Vaisala

**VIRTUAL
WORKSHOPS**



Registration will be available at
SaltSmart.org in August



SAVE THE DATE

2023 Virtual Deicing Workshops

Public Roads
September 26
October 4
October 10
8 am–12 pm

Parking Lots & Sidewalks
October 3
October 17
8 am–12pm

Hosted by:



STORMWATER MANAGEMENT COMMISSION



Outreach Sponsors:





State of Illinois
JB Pritzker, Governor

Illinois Department of Transportation
Omer Osman, Secretary

**Illinois Department of Transportation
2023-2024 Winter Weather Fact Sheet**

District 1

Lane Miles Plowed	10,249
Counties Served	6
Permanent Employees available for snow removal	366
Temporary Employees (estimated)	470
Number of Truck Routes	374

Snow Removal Costs (2022-2023 winter)

Labor	\$8,677,679
Material	\$8,084,885
Equipment	\$11,810,252
Total	\$28,572,816

Salt Usage (In Tons)

'18-'19	217,115
'19-'20	144,830
'20-'21	212,776
'21-'22	154,000
'22-'23	123,386

Type and Amount of Trucks / Equipment for Snow Removal

Total Trucks / Equipment	429
Single Axle Dump	94
Tandems	319
4X4's	0
6X6's	9
Rotary Snow Plows	7

For up-to-date road conditions, visit www.gettingaroundillinois.com



Illinois Department of Transportation

Appendix 6

SALT STORAGE SPECIFICATIONS

DOMED STORAGES

Team Section	Diameter	Wall Height	SALT CAPACITY		Liq. Ca. Cl. Cap. (Gal.)	Liq. Salt Cap. (Gal.)		Year Completed
			Loader	Conveyed				
Arlington Heights	82'	8'	3,300	3,500		2	4,500	1989
Northbrook	82'	8'	3,300	3,500		3	5,000	1991
Grayslake	82'	6'	3,300	3,500		3	5,000	1986
Grayslake (Res DM)			10,000	13,000		0	0	2022
Lake Zurich	82'	10'	3,300	3,500		1	5,000	2001
Gurnee	84'	8'	3,300	3,500		2	4,500	1988
Woodstock	82'	8'	3,300	3,500		3	5,000	1991
<i>Edens</i>	82'	8'	3,300	3,500		2	5,000	1992
<i>Kennedy</i>	61'	6'	3,500	3,700		2	4,500	1987
<i>Landscape</i>	72'	10'	2,300	2,500		1	4,500	1992
Alsip	100'	6'	4,500	5,200		2	5,000	1990
Eisenhower	82'	8'	3,300	3,500		2	5,000	1988
Hillside	82'	6'	3,000	3,300		3	5,000	1985
Naperville	82'	8'	3,300	3,500		3	5,000	1990
Northside	100'	12'	6,000	6,700		3	5,000	2009
Oakbrook	82'	8'	3,300	3,500		3	5,000	2000
Rodenburg	116'	10'	7,500	9,000		2	4,500	1996
<i>Biesterfield - District Bridge 1</i>	82'	8'	3,300	3,500		0	0	1993
<i>Biesterfield (Res DM) - District Bridge 2</i>	135'	12'	10,000	13,000		0	0	2000
Stevenson	82'	8'	3,000	3,300		2	5,000	1985
Stevenson (Res DM)			10,000	13,000		0	0	2024
Dan Ryan	82'	8'	3,300	3,500		1	10,000	1990
Harvey	100'	6'	4,500	5,200		2	4,500	1992
I-57	135'	12'	10,000	13,000		1	5,000	2005
I-55	82'	8'	3,300	3,500		1	4,500	1988
Birds Bridge	82'	8'	3,300	3,500		1	4,500	1994
Joliet	82'	8'	3,300	3,500		3	4,500	1991
New Lenox	82'	6'	3,300	3,500		2	5,000	1987
New Lenox (Res DM)	130'	12'	10,000	13,000		0	0	2021
Monee	82'	8'	3,000	0		1	2,250	1994
St. Charles	82'	8'	3,300	3,500		3	5,000	1987
St. Charles (Res DM)	135'	12'	10,000	13,000		0	0	2000
Elgin (Shales Parkway)	82'	8'	3,300	3,500		1	5,000	1993
Domed Totals:			156,700	179,900				

OTHER INSIDE STORAGES (Non-Domed)

**Organization Name: IDOT District One Chloride TLWQS Annual Report
 Appendix 7 - Capital Purchases**

Capital Purchase Description	Plan/Schedule for Purchase
End Loader with Weight-In-Bucket Technology	Purchased 9 and anticipate to have all by June 2025
Heavyduty Trucks with increased liquid deicing capabilities Snow & Ice Capabilities	Ordered 8 for FY 24 and receiving in June 2025.
Heavyduty Trucks with increased liquid deicing capabilities Snow & Ice Capabilities	Placed order for 32 for FY 25. Anticipated arrival in June 2025.
6 by 6 Wingplow Trucks	Placed order for 3 for FY 25. Anticipate arrival in June 2025
Diesel Powered Conveyors	Placed order for 3. Anticipate to received Spring 2025.
Deicing Trailers	Anticipated arrival prior to 2024-2025 Snow and Ice Season