



# **The City of New York Department of Sanitation**



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## **2016-2017 Snow Plan for the Borough of Queens**

**Pursuant to Local Law 28 of 2011**

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**Kathryn Garcia, Commissioner  
November 2016**

## **2016 - 2017 Draft Borough Snow Plan**

The Department of Sanitation (DSNY) Borough Snow Plan describes measures DSNY will take to fight winter weather, clear streets for safe transportation, and address issues of public safety related to snow and ice conditions. This document is published pursuant to the requirements set forth under Local Law 28 of 2011.

### **I. INTRODUCTION**

The Department of Sanitation keeps New York City healthy, safe, and clean by collecting, recycling, and disposing of waste, cleaning streets and vacant lots, and clearing ice and snow. A critical component of this mission is to clear snow and ice from New York City's more than 19,000 lane-miles of roadways in a prompt, reliable, and equitable manner.

Winter conditions on the City's roadways introduce potential hazards to all forms of travel. Snow, ice, and other winter weather can impede first responders, temporarily close businesses and schools, and restrict the mobility of all New Yorkers. Snowfall can be expected to lead to the disruption of normal traffic patterns and public transportation. In prolonged or severe snowfall, disruption can last for extended periods of time.

While DSNY makes every reasonable effort to clear snow and ice from the City's highways and streets as quickly and effectively as possible, it can be a lengthy process, particularly when persistent or heavy snowfall occurs combined with falling temperatures and high winds. This Snow Plan concentrates on the planning, organization and response to winter weather conditions, the execution of operational tasks to perform salt spreading on roadways, and the plowing, piling, hauling, and melting of significant snow accumulations from the City's roadways.

### **II. PLANNING**

DSNY's preparation and planning process for winter weather is continuous and ongoing. In the spring and summer, DSNY staff review the approximately 1,500 snow-plowing routes ("Snow Routes") throughout the city and adjust them as necessary based on the prior year's experiences and changes in the physical cityscape (i.e., construction of a new school or hospital). DSNY also performs preventative maintenance on all snow-related equipment and upgrades equipment as necessary.

At the end of each winter season, DSNY's Operations Division performs a review and assessment of its response to all winter storms during the previous season. Operational changes and adjustments, such as improving equipment training and improving communications between snow removal equipment and supervisory personnel, are made as needed.

#### **January 2016 "Jonas" Blizzard**

In January 2016, New York City experienced a historic blizzard beginning. Total accumulations at Central Park measured 27.5 inches, making it the largest snow storm recorded by the National Weather Service at that location since 1869. Following the storm, DSNY prepared an After Action Report assessing the City's storm preparedness and response. As a result of that report, the City has invested \$21 million in capital funds to purchase additional snow equipment to more effectively remove snow from narrow streets, especially during storms with accumulations over 12 inches.

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New snow equipment, including 80 additional haulsters, will allow DSNY to limit the use of outside contractors who currently supplement snow clearing operations on smaller, narrow street segments. Shifting more of these operations to DSNY will improve snow clearing on smaller streets that are more difficult to efficiently clear during a storm, and greatly improve snow operations.

DSNY has also purchased 21 new front-end loaders, which will replace mid-sized FELs currently used during salt loading operations. Larger loaders will allow DSNY to decrease turnaround on salt loading and lower queue lines. In addition to increasing overall efficiency for salt-loading, using front-end loaders for salt operations frees up the medium-sized loaders for other uses, such as plowing dead end streets. DSNY can then deploy those in streets during heavy snowfalls to ensure standard plows and V-plows remain usable when large amounts of snow have accumulated.

To more quickly clear pedestrian infrastructure, DSNY has purchased 40 new skid steer plows to further mechanize the clearing of crosswalks and bus stops. In addition to recommending the purchase of additional equipment, the After Action Report recommends that DSNY take steps to:

- Maximize effectiveness of equipment, including new vehicle purchases and earlier use of front end loaders
- Improve coverage and route effectiveness, with computerized route assignments, improved procedures, and additional snow training for sanitation workers, supervisors and superintendents
- Improve shift changes
- Improve snow response for pedestrian areas, including better management of snow laborers
- Improve transparency and information flow

The full After Action Report can be viewed [here](#).

In the fall, DSNY holds meetings internally to coordinate operations, discuss snow staffing, and plan snow-drill exercises. DSNY also meets with other city agencies to coordinate asset dedication for its snow operations and to discuss putting City agencies on notice during a Snow Alert. A Snow Alert indicates the type of winter weather, amount expected, temperature and timing of the event as forecasted by weather services contracted by DSNY. As a result of these meetings, DSNY and other City agencies have adopted procedures and made assets available as outlined in Section VI-D, below.

DSNY representatives also attend Community Board district service cabinet and Borough service cabinet meetings to report on DSNY's snow operations plan.

In the months before the snow season begins, DSNY ensures it has adequate equipment, parts and supplies to carry out this Snow Plan. DSNY has established contracts with multiple vendors for the replenishment of salt stockpiles, and salt and calcium chloride are delivered to DSNY storage locations located in each borough. (See Appendix E). Citywide, DSNY has 29 permanent and 12 seasonal salt storage sites, with the capacity to store 338,600 tons of rock salt. DSNY also has 51 calcium chloride locations citywide with the capacity to store 370,500 gallons of calcium chloride. Calcium chloride system components are inspected and tested prior to snow season to insure pumps, nozzles and associate hardware are fully functional. The

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Department ensures that it has sufficient snow chains on hand to have an adequate supply for the snow season.

Night Plow season is a specified period of time during the snow season where DSNY increases staffing of personnel on night shifts to ensure sufficient personnel are available to address weather related issues. The Night Plow season begins each year in mid-November, and ends the first Monday in April. During this time period, personnel are scheduled for regular cleaning and collection functions on three shifts (0001 hrs to 0800 hrs, 0600 hrs to 1400 hrs, and 1600 hrs to 2400 hrs).

Every year, a snow-drill exercise is conducted at the beginning of the Night Plow season to get everyone in "Snow Mode" and identify areas that may need strengthening. This exercise involves all DSNY divisions, including both operational and administrative functions.

### **III. TRAINING**

Training for winter operations is held each year from September through December. Training for Sanitation Workers includes, but is not limited to, spreader operation, attachment of plows and chains, and use of two-way radios and GPS.

Personnel from the Bureau of Motor Equipment and personnel from the Bureau of Cleaning and Collection, together train field personnel on the proper attachment of chains, on the use of the Automatic Traction Control Mud/Snow mode and Inter-Axle Differential Lock (for vehicles equipped with these features), and on proper plow maintenance. Additionally, plow operators are retrained on how to make proper turns into side streets when ridges of snow are present. Materials are then distributed to personnel to serve as a handy reference for these topics.

Front end loaders are a vital piece of snow removal equipment. Each year Sanitation Workers are selected for training to operate Front End Loaders at the DSNY training center located at Floyd Bennett Field. Additional classroom training is conducted for instruction on procedures when employing Hired Equipment and "Load and Dump" procedures for hauling and snow disposal operation.

In fall 2016, DSNY conducted a comprehensive snow training program for all Sanitation Workers and Supervisors. This full-day training program combined a classroom module on proper techniques and procedures with a real-world driving training, with workers operating plows and spreaders on sector routes.

### **IV. SNOW REMOVAL PRIORITY DESIGNATION CATEGORIES**

To formulate an effective snow removal response, routes are designed to address roadways and categorized into the classifications:

- Critical Routes: These routes are comprised of highways (main beds, entrances, exits interchanges), arterial roadways, main travel thoroughfares (single lane and multi-lane), bus routes, that contain emergency services & first responder facilities (Hospitals, EMS, FDNY, NYPD) and schools.

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- Sector Routes: Designed to encompass all streets that are not classified as Critical Streets and are wide enough to accommodate a full size DSNY collection truck with a plow attached.
- Haulster Routes: Designed to service dead ends and streets that cannot be serviced with a collection truck or salt spreader with a plow attached due to narrow street width or tight turning radius (either entering or exiting the street).

In 2016-2017, DSNY will fully expand its successful "Snow Sectoring" routing methodology in all Districts. In a heavy storm with significant expected accumulation, the Department will begin plowing of critical, sector and haulster routes at the same time, providing more timely service for many residents. First tested during the 2013-2014 snow season, the initiative has been expanded each year culminating in the full implementation of an initiative that has optimized service schedules and dramatically reduced redundant travel miles.

### **V. ASSIGNED EQUIPMENT AND PERSONNEL**

For a full list of equipment and personnel assigned to each district, see Appendices A and B.

### **VI. IMPLEMENTATION**

The following is a step-by-step overview of how DSNY fights an impending snowstorm.

#### **A. Forecast and Preparation**

DSNY's Operations Office monitors weather forecasts through the contracted weather reporting services 24/7. The following services will be contracted for the 2016-2017 Snow Season: Accu Weather, Compu Weather, and Metro Weather.

When a risk of snow is indicated by the forecast, the Bureau Operations Chief will brief the Commissioner, First Deputy Commissioner and Bureau Director. At this stage the First Deputy Commissioner will consider the need to activate personnel for snow response. If the forecasted amount of frozen precipitation would result in the need to deploy plows, personnel are re-scheduled into two 12 hour shifts (normally 0700 hrs to 1900 hrs and 1900 hrs to 0700 hrs). During these situations, regularly scheduled days off for Sanitation Workers and Uniformed Officers are cancelled to ensure maximum personnel availability. DSNY formulates staffing needs 24 hours in advance of snowfall based on weather forecasts and other factors. After an assessment is made as to the necessary action, DSNY will issue a "Snow Alert" informing Department personnel, the Mayor's Office, and other City agencies of a pending snow event. In addition to receiving the snow alert, DEP, DOT and DPR may be notified of the need for their resources to address the pending snowfall if forecasts warrant it. (See Section VI-D for City agency responsibilities).

DSNY's Bureau of Public Affairs will issue a "snow alert declaration" to all media and the public via a news advisory and all social media channels. Such advisories will also be posted on NYCEM's Severe Weather page, available at: <http://www.nyc.gov/severeweather>. Subsequent weather forecasts are monitored, and DSNY's Operations Office maintains ongoing communication with contracted weather forecasting services.

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Before the storm, Department staff prepares equipment to begin snow fighting operations. This may include loading spreaders with salt and calcium chloride, attaching plows to spreader equipment and vehicles used for plowing, and attaching chains to spreaders and vehicles used for plowing, based on precipitation type and the amount of precipitation forecasted. Based on forecasted conditions, vendors with which DSNY has entered into requirements contracts may be contacted to prepare for piling, hauling, or towing operations.

In the hours prior to snowfall, weather condition reports are submitted hourly from DSNY's field weather stations located at DSNY facilities. Salt spreaders are equipped and pre-positioned to begin operations at the first trace of precipitation.

### **B. Salting and Plowing Operations**

At the first trace of snow or frozen precipitation, salt spreaders begin dispensing salt on roadways. Spreaders are DSNY's first line of defense against snow and ice conditions. Large spreaders have plows attached and have the capacity to hold approximately 16 tons of salt. Spreaders are equipped with tanks of liquid calcium chloride for pre-wetting salt to enable the melting of snow and ice at lower temperatures. Each spreader can hold up to 180 gallons of liquid calcium chloride.

Plowing operations begin when snowfall exceeds two inches. Plowing clears snow from the roadways, moving it out of the way of the path of moving traffic. Plow blades are fixed to the right to avoid blocking oncoming traffic and keep intersections clear. Plows must follow their designated routes in the proper order, or they may miss some street segments. As a result, plows cannot be diverted from routes to resolve customer complaints until after snow has stopped falling and assigned roadways are clear. After streets have been addressed, municipal parking lots, bike lanes, and pedestrian infrastructure are also cleared of snow.

DSNY also deploys specialized equipment as needed to meet local conditions. V-plows are deployed to areas where drifting or considerable accumulations of snow have made plowing too difficult for truck plows alone. Utility haulsters are small spreaders with plows attached for treating areas with limited accessibility. These spreaders can hold approximately 2 tons of salt. Front end loaders are used for salt loading, snow plowing in narrow streets, and snow hauling operations.

Additionally, in heavy snowfall events the Department may activate emergency hired equipment contracts as needed.

### **C. Situational Awareness**

DSNY maintains situational awareness throughout a storm using a range of technologies and channels of communication. Department officers monitor operations in the field, and district offices submit progress reports on the status of spreading and plowing operations.

DSNY headquarters, located at 125 Worth Street in Manhattan, maintains a Radio Control Center. All spreading and plowing equipment are outfitted with two-way radios and GPS to maintain communication with Supervisory personnel, Borough Commands and the Radio Control Center throughout the event. GPS units are installed on all DSNY equipment as well as the units in DOT, DPR, and DEP that may be assigned to DSNY during storms. This allows DSNY to track all resources engaged in snow fighting efforts.

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Radio communication is DSNY's best tool for relaying orders and information to and from the field during a storm. Each Borough Command transmits on a separate assigned radio talk group. Additional talk groups may be utilized to alleviate radio traffic during emergency situations.

When the NYC Emergency Management Emergency Operations Center (EOC) is activated in response to a snow event, DSNY will send the following representatives to liaise and coordinate with NYCEM officials and representatives of other city agencies:

|                |                |                    |
|----------------|----------------|--------------------|
| John Chingas   | Deputy Chief   | 0700 to 1900 hours |
| David Trupia   | Superintendent | 0700 to 1900 hours |
| John Rossiello | Superintendent | 1900 to 0700 hours |
| Michael Vella  | Supervisor     | 1900 to 0700 hours |

DSNY coordinates with other City agencies through NYCEM as to the needs of those agencies including, but not limited to, emergency vehicles, NYCHA developments, hospitals and other areas. This coordination will continue through the EOC throughout the snow event. DSNY also embeds staff in the NYPD and DOT command centers to monitor those agencies' camera feeds in real time.

### **D. Other City Agencies**

City agencies are responsible for clearing snow from their own facilities in order to comply with their Charter-mandated responsibilities. During a snow event, DSNY is in constant contact with NYCEM and other City agencies. In some cases, DOT, DPR, and DEP may provide plowing equipment and operators to DSNY, as described below. Should an emergency situation necessitate such action at an earlier stage, NYCEM will coordinate the reallocation of resources.

**DOT:** The Department of Transportation provides truck plows with operators (See Appendix F). When plowing operations are completed, these trucks may also assist in snow hauling operations. During a snow event, DOT will send a representative to DSNY Operations Command Center to facilitate coordination between DSNY and DOT. All DOT employees assigned will be directed by DSNY personnel. DOT services the four lower East River Crossings and calls upon DSNY to assist as necessary during a snow event.

JCDecaux, DOT's bus shelter contractor, is responsible for maintaining and clearing the interior of bus shelters. During a snow event, JCDecaux will send a representative to NYCEM to liaise and coordinate snow removal from bus shelters.

**DEP:** The Department of Environmental Protection provides plowing assistance after completion of snow removal work at DEP locations (See Appendix F). DEP also advises DSNY on sewers suitable to support snow melting operations.

**DPR:** The Department of Parks and Recreation provides plowing assistance after completion of snow removal work at DPR locations (See Appendix F). When necessary, DPR supplies light duty vehicles with plows, which are able to perform snow removal work after initial large accumulations have been cleared by heavy-duty DSNY plows. In addition, DPR provides front end loading equipment as necessary to assist during piling and hauling operations.

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**NYPD:** DSNY meets with NYPD to exchange contact information with the NYPD Traffic & Tow and Highways Divisions and to review the use of NYPD tow trucks during and after heavy snow. DSNY also sends representatives to liaise and monitor street conditions via private and public streaming video feeds received from hundreds of cameras located throughout the 5 boroughs.

**FDNY / EMS:** The Tow Truck Task Force, which is coordinated through NYCEM, may involve the use of Front End Loaders from DSNY to clear snow from streets to provide access for NYPD tow trucks to tow snowbound ambulances.

**MTA:** DSNY attends the MTA's Annual Snow Operations Meeting to discuss issues and concerns going into the new snow season. MTA submits priority locations for DSNY salting and plowing, including turn-around locations for bus lines.

**Port Authority & TBTA:** The Port Authority of NY & NJ is responsible for managing bridges and tunnels between New York and New Jersey as well as airports in New York City and Northern New Jersey. The Triborough Bridge and Tunnel Authority (TBTA) manages the toll bridges and plazas within New York City. Although DSNY does not directly coordinate with the Port Authority or the TBTA, those authorities have seats at NYCEM's Emergency Operations Center and are in constant contact with City agencies during a snow event. If necessary, DSNY will assist as able.

### **E. Customer Service**

311 is New York City's main source for non-emergency services and information about City government, including information and services related to snow events. DSNY has worked very closely with the City's 311 Customer Service Center to provide a medium for public information and when appropriate for registering service requests and complaints related to snow events. Throughout snow events the DSNY Bureau of Community Affairs sends regular updates to 311 about snow operations, laborer and private equipment hiring, enforcement of sidewalk clearing responsibilities and collection service.

During the snow event, 311 uses Rapid Service Requests, allowing customers to submit reports of locations of concern during DSNY snow operations. Because DSNY is actively salting/plowing snow or ice from highways, roadways and streets, it cannot respond to individual plowing or spreading requests. This information is used to provide an overview of the storm situation and snow operations. These locations are mapped periodically during and immediately after the storm, and these maps are used to evaluate the effectiveness of snow operations and allocate resources as necessary.

After the snow event ends and the Mayor and/or the Commissioner have announced that snow clearing operations have concluded; all complaints and service requests are sent immediately from 311 directly to the district garage and/or Enforcement Zone for action. The local district supervisors determine priority needs based on street designations (see Section IV) and local conditions.

The following are examples of complaints and/or service requests received by 311: (1) unplowed streets (those streets where it is apparent that a plow has missed the location); (2) conditions where a plow has been down a street but residents have been throwing snow into the street creating new conditions; (3) unsafe icy patches on City streets; (4) icy conditions not caused by a storm or natural event; and (5) enforcement service request for failure to clear snow/ice from sidewalk area.



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The following Department representatives from the DSNY Bureau of Community Affairs are available to liaise with government and elected officials and community boards regarding snow events by providing updates and maintaining communications. The Bureau of Community Affairs also serves as liaison to the City's 311 Customer Service Center.

Henry Ehrhardt, Director, Bureau of Community Affairs  
John Mancuso, Deputy Director, Community Engagement  
Ignazio Terranova, Citywide Community Affairs Officer

New Yorkers can use the PlowNYC online mapping tool to track the progress of DSNY snow operations throughout the five boroughs. PlowNYC is activated when DSNY snow clearing operations begin. When PlowNYC is active, residents are able to access a map displaying city streets that have been serviced by DSNY snow clearing equipment. Streets are color-coded based on the amount of time that has elapsed since a plow or spreader last passed down the street, and the map is updated every 15 minutes. To access PlowNYC, go to: <http://maps.nyc.gov/snow/>.

Beginning with the 2016-2017 Snow Season, DSNY and the Department of Information Technology and Telecommunications will make PlowNYC data available in near real-time to the public and software developers through the City's Open Data Portal. The data will be made available during snow events, with plow locations being updated several times per hour, and older records being archived. This is the first time the City will deliver automated data more frequent than daily.

NYC Service has taken on the role of assisting organizations such as local not-for-profit organizations, civic organizations and community groups to establish registries of recruited volunteers willing to help remove snow on behalf of persons who are unable to do so due to infirmity, illness or disability.

### **F. Snow Clearing Operations**

Spreading and plowing operations continue until all public streets are serviced.

After precipitation ceases, piling operations begin as needed. When snow accumulations approach the 6 to 8 inch range, the operation of piling follows plowing. Snow is plowed to keep main arteries open. This ridge created is then pushed into piles for scheduled removal. DSNY updates piling routes as needed each season.

DSNY has an established requirements contract for supplemental snow piling and hauling equipment that includes equipment for the incidental towing of vehicles. (See Appendix G). With this contract, contractors will be expected to have equipment readily available for DSNY employment throughout the snow season.

DSNY does not pile snow to be left on the public streets. Piles temporarily made by DSNY are hauled to approved snow disposal locations and left to melt or are transported to snow melter locations to be melted. Additional piles made by the public should be reported to 311 for DSNY removal.

When forecasts warrant, DSNY stages snow melters in pre-determined locations. The City has 29 small melters each capable of melting 60 tons of snow per hour. Seven larger "mega-

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melting" are each capable of melting 135 tons of snow per hour. Melters are used in conjunction with hauling operations. Water from the melted snow is discharged directly into City sewers preapproved for melting operations by DEP. (See Appendix C for approved locations).

Additional snow disposal locations during hauling operations to expeditiously remove piles of snow from streets to a location where snow can be piled and left to melt. (See Appendix D for authorized snow disposal locations).

Alternate side parking regulations may be suspended before, during, or after a snow event. After roadways have been serviced and the temperatures are expected to be above freezing, the process of clearing snow from street cleaning routes begins. Alternate side parking regulations will be reinstated to facilitate this process. A combination of front end loaders, plows, spreaders and haulsters may be used to clear snow away from curbs.

### **G. Clearing Pedestrian and Bicycle Infrastructure**

After salting and plowing operations have stopped, DSNY addresses snow and ice removal from bike lanes, pedestrian overpasses and step streets, bus stops and crosswalks. DSNY has a fleet of 100 skid-steer loaders to more quickly and efficiently clear these areas. (See Appendix B).

DSNY employs individuals as temporary snow laborers to clear crosswalks, pedestrian curb cuts, catch basins, paths for loading and unloading at bus stops, sidewalks adjacent to vehicular overpasses, and pedestrian bridges. All work performed by temporary snow laborers is supervised by DSNY supervisors. Once DSNY issues a request for temporary snow laborers to report for duty, laborers typically report at 8 A.M. at the district garage where they initially registered. In cases where there are insufficient temporary snow laborers who report for duty in a specific district during a major snow event, temporary snow laborers from nearby district garages will be transported to assist in the manual snow removal efforts of the district where there is a shortage and transported back at the end of the work shift to their original assigned garage where they reported for duty. DSNY supervisors monitor conditions of areas that have been shoveled. Laborers will be re-deployed to address areas that may be re-covered by subsequent plowing.

Each year in October DSNY seeks individuals interested in registering as temporary snow laborers during major snow events via its website and through the media, and by providing information through 311 upon request. Persons interested in becoming a temporary snow laborer can register at any local district garage between the hours of 7 A.M. to 3 P.M. The rate of pay begins at \$15.00 per hour and increases to \$22.50 per hour after completing the first 40 hours in a given week. Applicants must be at least 18 years of age, eligible to work in the United States, and capable of performing heavy physical labor. All applicants must bring two small, passport-sized photos, and originals and copies of two forms of identification together with their social security card at the time of registration.

Citibike is New York City's bike sharing system and is operated by NYC Bike Share LLC (NYCBS). NYCBS is required to remove snow from a six foot radius around bike stations. This will help create an adequate buffer around which DSNY plows can navigate. NYCBS will be responsible to remove any snow that is inadvertently plowed against Bike Share stations. In cases where severe snow storms are predicted, NYCBS will be responsible for removing bikes and deactivating stations in advance.

**APPENDIX**

**A**

ASSIGNED SNOW PERSONNEL BY DISTRICT

The following reflects planned personnel to respond to snow events.

Personnel available from other units such as Solid Waste Management and Lot Cleaning will be assigned to Boroughs on a citywide basis as needed.

| <b>Queens West Borough Chief - Javier Lojan</b> |                        |            |             |            |
|---|------------------------|------------|-------------|------------|
| <b>DISTRICT</b>                                 | <b>ADDRESS</b>         | <b>G/S</b> | <b>SUPV</b> | <b>S/W</b> |
| BORO OFFICE                                     | 52-35 58th STREET      |            |             |            |
| QUEENS WEST 1                                   | 34-28 21st STREET      | 1          | 8           | 97         |
| QUEENS WEST 2                                   | 52-35 58th STREET      | 1          | 6           | 94         |
| QUEENS WEST 3                                   | 52-35 58th STREET      | 1          | 6           | 74         |
| QUEENS WEST 4                                   | 52-35 58th STREET      | 1          | 6           | 81         |
| QUEENS WEST 5                                   | 48-01 58th ROAD        | 1          | 8           | 99         |
| QUEENS WEST 6                                   | 58-73 53rd AVENUE      | 1          | 6           | 64         |
| QUEENS WEST 9                                   | 132-05 ATLANTIC AVENUE | 1          | 6           | 85         |
| QUEENS WEST 5A                                  | 58-02 48TH STREET      |            |             |            |
|   | <b>TOTAL</b>           | <b>7</b>   | <b>46</b>   | <b>594</b> |

| <b>Queens East Borough Chief - Roger Leahy</b> |                       |            |             |             |
|--|-----------------------|------------|-------------|-------------|
| <b>DISTRICT</b>                                | <b>ADDRESS</b>        | <b>G/S</b> | <b>SUPV</b> | <b>S/W</b>  |
| BORO OFFICE                                    | 120-15 31st AVENUE    |            |             |             |
| QUEENS EAST 7                                  | 120-15 31st AVENUE    | 1          | 12          | 211         |
| QUEENS EAST 8                                  | 130-23 150th AVENUE   | 1          | 10          | 135         |
| QUEENS EAST 10                                 | 130-23 150th AVENUE   | 1          | 6           | 102         |
| QUEENS EAST 11                                 | 75-05 DOUGLASTON PKWY | 1          | 14          | 176         |
| QUEENS EAST 12                                 | 130-23 150th AVENUE   | 1          | 10          | 159         |
| QUEENS EAST 13                                 | 153-67 146th AVENUE   | 1          | 14          | 179         |
| QUEENS EAST 14                                 | 51-10 ALMEDA AVENUE   | 1          | 6           | 75          |
|  | <b>TOTAL</b>          | <b>7</b>   | <b>72</b>   | <b>1037</b> |

**GRAND TOTAL      14            118            1631**

DSNY INVENTORY OF AVAILABLE SNOW MANAGEMENT EQUIPMENT

| BORO   | DIST. | Large Spreader | Utility Haulster | Plowable Trucks | Front End Loaders | Plow Blades Assigned | V-Plows Assigned | Skid Steers | Snow Melter |       |
|--------|-------|----------------|------------------|-----------------|-------------------|----------------------|------------------|-------------|-------------|-------|
|        |       |                |                  |                 |                   |                      |                  |             | Small       | Large |
| QUEENS | 1     | 11             | 4                | 50              | 3                 | 63                   | 6                | 2           |             |       |
|        | 2     | 11             | 3                | 42              | 7                 | 57                   | 3                | 2           |             |       |
|        | 3     | 8              | 2                | 42              | 3                 | 51                   | 6                | 2           |             |       |
|        | 4     | 9              | 3                | 35              | 2                 | 53                   | 3                | 2           |             |       |
|        | 5     | 11             | 6                | 57              | 3                 | 69                   | 14               | 2           |             |       |
|        | 6     | 7              | 2                | 40              | 1                 | 62                   | 5                | 2           |             |       |
| WEST   | 9     | 9              | 6                | 39              | 3                 | 61                   | 7                | 2           |             |       |
|        | BORO  |                |                  |                 |                   |                      |                  |             | 3           | 1     |
| TOTALS |       | 66             | 26               | 305             | 22                | 416                  | 44               | 14          | 3           | 1     |

| BORO   | DIST. | Large Spreader | Utility Haulster | Plowable Trucks | Front End Loaders | Plow Blades Assigned | V-Plows Assigned | Skid Steers | Snow Melter |       |
|--------|-------|----------------|------------------|-----------------|-------------------|----------------------|------------------|-------------|-------------|-------|
|        |       |                |                  |                 |                   |                      |                  |             | Small       | Large |
| QUEENS | 7     | 22             | 6                | 69              | 10                | 154                  | 16               | 3           |             |       |
|        | 8     | 17             | 4                | 45              | 4                 | 68                   | 11               | 2           |             |       |
|        | 10    | 12             | 3                | 56              | 10                | 61                   | 9                | 2           |             |       |
|        | 11    | 19             | 4                | 44              | 8                 | 97                   | 15               | 2           |             |       |
|        | 12    | 17             | 5                | 67              | 5                 | 91                   | 15               | 2           |             |       |
|        | 13    | 21             | 6                | 83              | 6                 | 115                  | 13               | 3           |             |       |
| EAST   | 14    | 7              | 4                | 36              | 4                 | 50                   | 7                | 2           |             |       |
|        | BORO  |                |                  |                 |                   |                      |                  |             | 3           | 1     |
|        | LCU   |                |                  | 11              |                   |                      |                  |             |             |       |
| TOTALS |       | 115            | 32               | 411             | 47                | 636                  | 86               | 16          | 3           | 1     |

| BOROUGH RECAP | BORO         | Large Spreader | Utility Haulster | Plowable Trucks | Front End Loaders | Plow Blades Assigned | V-Plows Assigned | Skid Steers | Small    | Large    |
|---------------|--------------|----------------|------------------|-----------------|-------------------|----------------------|------------------|-------------|----------|----------|
|               | QW           | 66             | 26               | 305             | 22                | 416                  | 44               | 14          | 3        | 1        |
|               | QE           | 115            | 32               | 411             | 47                | 636                  | 86               | 16          | 3        | 1        |
|               |              |                |                  |                 |                   |                      |                  |             |          |          |
|               | <b>TOTAL</b> | <b>181</b>     | <b>58</b>        | <b>716</b>      | <b>69</b>         | <b>1052</b>          | <b>130</b>       | <b>30</b>   | <b>6</b> | <b>2</b> |

**C**

## Snow Melter Staging Areas

DEP locations

| Location              | From                 | To                 |
|-----------------------|----------------------|--------------------|
| 19th Avenue           | 45th Street          | 47th Street        |
| 50th Street           | 56th Road            |                    |
| 54th Avenue           | Maurice Avenue       | Midtown Expressway |
| 57th Avenue           | 80th Street          | 74th Street        |
| Booth Memorial Avenue | 164th Street         | Fresh Meadow Lane  |
| Baisley Boulevard     | North Conduit Avenue | Rockaway Boulevard |
| 38th Avenue           | 138th Street         |                    |
| 168th Place           | 88th Avenue          |                    |

**D**

### Authorized snow disposal locations:

- Astoria Park 19th Street and Hoyt Avenue N
- Flushing Meadow / Corona - Parking Lots
- Forest Hills High School GCP Service Road - 66th Road to 67th Road
- Forest Park : Bandshell
- World's Fair Marina - Parking Lot on Harper Street
- Cunningham Park : Francis Lewis Blvd Entrance and Union Turnpike (Upper)
- Aqueduct Racetrack: 110-00 Rockaway Blvd
- Idlewild Park 149th Street and Springfield Blvd
- Edgemere Landfill : Dump Road
- Edgemere Landfill : Beach 49th Street and Beach Channel Drive

**E**

### Salt and Calcium

There are **(10)** salt storage sites.

Usable capacity is **(70,200)** tons.

There are **(15)** tank locations for the storage of calcium chloride.

Total storage capacity is **(103,000)** gallons.

**F**

### OCAs

DOT will provide **(36)** truck plows with operators.

DEP will provide **(3)** truck plows with operators.

DPR will provide **(10)** truck plows with operators.

**G**

### Piling and Hauling Contracts

|                     | <u>Minimum Pieces of Equipment</u> |
|---------------------|------------------------------------|
| Natural Landscaping | 4                                  |
| Picco Construction  | 8                                  |
| American Auto Body  | 2                                  |
| Inter County Towing | 4                                  |