AVL-MDSS

WINTER MAINTENANCE OPERATIONS

BY

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AVL - Automated Vehicle Location

MDSS - Maintenance Decision Support System
AVL - Equipment
AVL - Equipment
AVL - Equipment
AVL - Sensors
Parsons - AVL Website
AVL - Truck Information
AVL - Truck Image
AVL - Reports
AVL - Snow Plow Reports
### Material Usage (Daily)

**Region:** North; Superior  
**Garage:** Atlanta; Engadine; Houghton; Kalkaska; L. Anse; Mio; St. Ignace  
**Date:** 11/12/2017 to 11/21/2017

<table>
<thead>
<tr>
<th>Date</th>
<th>Material</th>
<th>Solid Waste Season Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DUAL</td>
<td>751.5 tbn</td>
</tr>
</tbody>
</table>

**Region:** North  
**Material:** DUAL

- **Garage:** Atlanta  
  - Vehicle: 04-3027  
    - 9.3 tbn  
  - Vehicle: 04-4032  
    - 22.6 tbn  
  - Vehicle: 04-4050  
    - 4.8 tbn  
  - Vehicle: 04-1685  
    - 18.7 tbn  
  - Vehicle: 04-3035  
    - 3.9 tbn  
  - Vehicle: 04-4029  
    - 8.1 tbn  
  - Vehicle: 04-4035  
    - 36.1 tbn  
  - Vehicle: 04-4071  
    - 10.0 tbn  
  - Vehicle: 04-1957  
    - 0.1 tbn  
  - Vehicle: 04-1359  
    - 1.8 tbn  
  - Vehicle: 04-1670  
    - 6.4 tbn  
  - Vehicle: 04-1610  
    - 23.0 tbn  
  - Vehicle: 04-1642  
    - 12.6 tbn  
  - Vehicle: 04-2043  
    - 5.4 tbn  
  - Vehicle: 04-1605  
    - 629.5 tbn  

**Region:** Superior  
**Garage:** Engadine  
- Vehicle: 04-1610  
  - 23.0 tbn  

**Material Usage Report**
AVL - Heath Check Report
MDSS - Website
MDSS - Weather Alert
MDSS - Road Alert
MDSS - Road Alert 24h
MDSS - Maintenance Alert 24h
MDSS - CAMERA IMAGES
MDSS - Camera Images
MDSS - Truck Locations
MDSS - Truck Information
MDSS - Route Information
MDSS - Route Information Detail

<table>
<thead>
<tr>
<th>Time</th>
<th>Roadway</th>
<th>Temperature</th>
<th>Wind Speed</th>
<th>Wind Chill</th>
<th>Precipitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>10am</td>
<td>Sample</td>
<td>10°C</td>
<td>5 m/s</td>
<td>-3°C</td>
<td>0.00 mm/h</td>
</tr>
<tr>
<td>11am</td>
<td>Sample</td>
<td>11°C</td>
<td>6 m/s</td>
<td>-4°C</td>
<td>0.00 mm/h</td>
</tr>
<tr>
<td>12pm</td>
<td>Sample</td>
<td>12°C</td>
<td>7 m/s</td>
<td>-5°C</td>
<td>0.00 mm/h</td>
</tr>
<tr>
<td>1pm</td>
<td>Sample</td>
<td>13°C</td>
<td>8 m/s</td>
<td>-6°C</td>
<td>0.00 mm/h</td>
</tr>
<tr>
<td>2pm</td>
<td>Sample</td>
<td>14°C</td>
<td>9 m/s</td>
<td>-7°C</td>
<td>0.00 mm/h</td>
</tr>
<tr>
<td>3pm</td>
<td>Sample</td>
<td>15°C</td>
<td>10 m/s</td>
<td>-8°C</td>
<td>0.00 mm/h</td>
</tr>
</tbody>
</table>

*Note: Sample data for demonstration purposes.*
MDSS - Winter Severity Index (WSI) with Salt Usage
MDSS - WSI with Salt Usage
THANK YOU

QUESTIONS?