APPENDIX J

Documentation on Street Sweeping Equipment and Paved Road Cleanup Programs
APPENDIX J

Section A

Nevada Department of Transportation - Documentation on Street Sweeping Equipment and Paved Road Cleanup Programs
January 29, 2001

Rodney Langston  
Clark County Department of Comprehensive Planning  
500 South Grand Central Parkway  
Las Vegas, Nevada 89155-1741

Re: Street Sweeping

Dear Mr. Langston,

The Nevada Department of Transportation, District I Headquarters maintains the following street sweeping schedule. All Freeways under our management are scheduled to be swept once per week. All arterials, maintained within District I are scheduled once per month.

In cases that are exceptional and involve emergency response, there is no written policy. However, when such a situation arises, this District immediately applies all necessary manpower and equipment to mitigate the situation, with due consideration to the safety of the general public and environmental concerns.

If you have any questions, or if there are other issues you may be concerned about, please contact Joe Peltier at (702) 676-1567.

Sincerely,

[Signature]

Kent Cooper  
Program Development Office

cc: Jeff Fontaine  
    Ruedy Edgington  
    Eugene Weight  
    Fred Rochez  
    Marty Manning – CC Public Works
June 23, 2000

Re: NDOT Street Sweeping Activities

Dear Mr. Cates,

The attached tables detail the Nevada Department of Transportation’s Street Sweeping Operations for the Las Vegas valley. This should satisfy your request under the newly adopted PM_{10} regulations.

Please contact me at 676-1565 if you have any questions or need additional information.

Sincerely,

Marc Reisman
Manager
Program Development Office – Southern Division

mhr/
<table>
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<tr>
<th>Vehicle Number</th>
<th>Brand - Model</th>
<th>Model Year</th>
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<th>Crew</th>
<th>* Type</th>
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<td>Co. sold machine operations in Alberta to Wittke. Now operating in Regina Canada. No certification, No Dealer, No retrofit kit</td>
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Legend
* DVS = Dustless Vacuum Sweeper  VS = Vacuum Sweeper  MS = Mechanical Sweeper
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<th>MILE POSTS</th>
<th>CURB MILES</th>
<th>MEDIAN MILES</th>
<th>RAMP MILES</th>
<th>MILES TO SWEEP</th>
<th>RAMPS</th>
<th>INTERCHANGES</th>
<th>INTERSECTIONS</th>
<th>GOAL SWEEPING</th>
<th>ACTUAL SWEEPING</th>
<th>EQUIPMENT NEEDED</th>
<th>PERSONELL NEEDED</th>
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<td>Twice a week</td>
<td>1 sweeper</td>
<td>3 sweepers 2 cushions 1 message bd. 1 debris mach. 1 2-ton</td>
<td>8</td>
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<td>I 15</td>
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5/11/00
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**TOTALS** | **443.15** | **443.15** | **180.26** | **1966.56** | **186** | **424** |
APPENDIX J

Section B

Clark County Department of Public Works - Documentation on Street Sweeping Equipment and Paved Road Cleanup Programs
MEMORANDUM

Department of Public Works

TO: WILLIAM CATES, PRINCIPAL PLANNER, COMPREHENSIVE PLANNING
FROM: JOHN N. MURDOCH, MANAGER, MAINTENANCE MANAGEMENT DIVISION
SUBJECT: SWEEPER INVENTORY AND SCHEDULE
DATE: APRIL 27, 2000

At the present time, the Clark County Public Works Department Maintenance Management Division owns and operates sixteen street sweepers.

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<th>MAKE/MODEL</th>
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<td>1993 TYMCO BAH600</td>
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<td>10111</td>
<td>1993 TYMCO BAH600</td>
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<td>1993 Vac-All</td>
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As per the South Coast Air Quality Management District, Rule 1186 (enclosed), all street sweepers in the Clark County fleet do currently meet the certification requirements except the Vac-All. To my knowledge the Vac-All sweeper has not been tested for Rule 1186 compliance, but it is similar to the TYMCO sweeper in that it is a regenerative air sweeper with a water system. The Vac-All is a specialized unit for cleaning drop inlets and is seldom used for street sweeping. The Vac-All unit is scheduled to be replaced in fiscal year 2001/2002. The replacement unit will comply with South Coast Air Quality Management District Rule 1186.

As indicated above, since 1993 Clark County Maintenance Management has purchased and will continue to purchase sweeping equipment which will provide the best management practices for performance and environmental concerns as the technology develops. It is Maintenance Management’s intent to replace street sweepers on a seven year cycle, which may be adjusted in the future due to variables such as available funding, performance of new models, and growth of the infrastructure.
In the Las Vegas valley, roads under Clark County’s jurisdiction are currently divided into thirteen sweater districts. Fully improved streets in each district are swept every seven to ten working days. Additionally, one swing shift operator and one graveyard shift operator utilize the same equipment to clean roadways that can not be cleaned efficiently on a day shift; i.e., arterials and industrial areas. These areas are also swept on a seven to ten day cycle.

Exceptions to the normal sweeping schedule may be “extraordinary events” such as flash floods. Procedure for removal of silt and debris due to an extraordinary event is to mobilize all available equipment from unaffected areas to the event location. This expedites cleanup operations with a priority of sweeping arterial roadways first, collector roadways second, and residential roadways third. On an average, Clark County Maintenance Management sweepers remove approximately 50,000 tons of material from Clark County road rights-of-way per year.

JNM:TJ:djt

Enclosure

cc\encs: B. Arkell, Special Consultant
M. J. Manning, Public Works Director
Listed below in bold print is the information you requested. Also included are testimonials from two government agencies and three companies who have used the Crack-Vac.

1. **Policy for clean-up after natural events and other erosion caused silt deposits on roadways.**
   - Time required for mobilization of clean-up activities after a natural event occurs or a silt deposit is reported (e.g. 4 hours, 12 hours, etc.).
     On average, in the Las Vegas valley, if the event occurs during normal work hours, our initial clean-up response is within 15 to 30 minutes of the call for assistance. If the event occurs after hours, our initial clean-up response can usually occur in 1 hour or less. But this also depends on the size of the event; large events require more time to mobilize equipment and manpower to facilitate the clean-up.
   - Time required to complete clean-up of silt deposits after typical natural event (i.e. 24 hours, 72 hours, etc.).
     This cannot be defined as we have no “typical event”; the size of the events vary greatly. We have cleaned up some small events in 8 hours; conversely, the 1999 flood took 3 months to totally clean-up.

2. **Information on clean-up of truck spills:**
   - Time required for mobilization of clean-up activities after a truck spill occurs and you are notified (e.g. 4 hours, 12 hours, etc.).
     On average, in the Las Vegas valley, if the spill occurs during normal work hours, our initial clean-up response is within 15 to 30 minutes of the call for assistance. If the event occurs after hours, our initial clean-up response can usually occur in 1 hour or less.
   - Time typically required to clean-up spill.
     This again is a variable; clean-ups have taken as little as 1 hour and others have taken up to 6 hours or more.

3. **Information on crack seal equipment:**
   - Types of equipment used and numbers of units by type.
     We have two Crafco, Model# 350G
Rodney Langston  
Additional Information Regarding PM$_{10}$ SIP  
February 9, 2001  

* Controls employed to prevent fugitive dust emissions from cleaning cracks (e.g. vacuum systems, other dust removal technology) for each equipment type. None at this time. Crafo demonstrated a vacuum type crack cleaner to Clark County Public Works two years ago. At that time it was of poor design and it did not work well at all. Apparently Crafo has introduced an improved model since then. We have talked to several entities and companies who are currently using this improved model. As per the testimonials attached to this memo, it appears to be a 50/50 split as to the efficiency of this machine. We intend to further research other models available before making a decision.

Please call me at 455-7540 if you need any further information, or if you have any questions or concerns.

LCH:ss

Attachment

cc: Bruce Arkell  
M. J. Manning
## TESTIMONIALS

<table>
<thead>
<tr>
<th>Company</th>
<th>Testimonial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cholla Pavement Maintenance Inc.</td>
<td>Todd is a private contractor who does a majority of the crack sealing in and around the city of Tempe. All of the contracts that he gets specify that any crack sealing activities will be done using a Crack-Vac. Todd feels that since they have been using the Crack-Vac, their production has been cut in half and he also feels they don't get the cracks as clean. He did add that under normal conditions, the filter would run a full shift before having to be cleaned.</td>
</tr>
<tr>
<td>CPC (Concrete Cutting, Inc.)</td>
<td>Called 2-7-01 @10:35. Told to call back in the morning. Called 2-8-01 @ 8:45. Mr. Colby wasn't in; told to try back in the morning.</td>
</tr>
<tr>
<td>Town of Gilbert, Public Works Dept.</td>
<td>Mr. Florez had nothing but good things to say about the Crack-Vac. He said at first he was a little apprehensive about running it because he was afraid he wouldn't get the production he was needing, but after working out a few bugs (added a shoe to the suction tube), and his guys getting used to the equipment, he feels he has no production loss whatsoever. He also added that there was virtually no visible dust, and under normal conditions he could run one filter the whole shift before it had to be cleaned.</td>
</tr>
<tr>
<td>Southwest Slurry Seal Inc.</td>
<td>Mr. Southard is a private contractor with two Crafco Crack Sealers and one Crack-Vac. They purchased the Crack-Vac when they got the contract to put down two million square yards of material for the city of Scottsdale. At first, their production was down from the previous year, but after they did a few modifications, including putting casters on the suction tube and putting a crew out ahead of the crack sealing crew, the production was every bit as good as it had ever been. He also added that under normal conditions, he was able to run a full day on one filter without cleaning it.</td>
</tr>
<tr>
<td>City of Tempe</td>
<td>Mr. Demingez was disappointed in production and quality of work. He said production was almost cut in half. They had done some core drilling and found that the Crack-Vac didn't get the cracks as clean as it did when they were just using a blow pipe. In addition, the vacuum pipe is so heavy and cumbersome that he has to have two men to relieve each other every hour. Danny did agree that the filters would last a full day under normal conditions.</td>
</tr>
</tbody>
</table>
APPENDIX J

Section C

City of Las Vegas Department of Public Works - Documentation on Street Sweeping Equipment and Paved Road Cleanup Programs
April 28, 2000

Rodney Langston
Air Quality Senior Planner
Clark County Comprehensive Planning
500 S. Grand Central Pkwy
Las Vegas, NV 89155-1741

Dear Mr. Langston:

In response to your request regarding PM-10 issues please find attached information:

- Inventory of Street Sweeper Fleet
- 99 Traffic Counts (Gravel Roads)
- City Of Las Vegas (Traffic Counts - Gravel Roads)
- 1995 CLV Memo on PM-10 Road sampling (includes results)

Additionally, I have reviewed the proposed Section 93 as it relates to Street Sweeping and would recommend that the requirement that all equipment comply with SCAQMD apply to all new equipment only. The way Section 93.2.3 as it is currently written, I interpret that all equipment used after 1/1/03 must comply. I would suggest that either Section 93.2.3 be changed to apply only to new equipment purchased, or all existing equipment be exempted under Section 93.2.3.1

If you have any questions please feel free to contact me at 229-5903.

Sincerely,

Larry J. Haugsness
Deputy Director

LH:mas

Attachments

cc: Richard D. Goecke
Lori Wohletz
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<th>UNIT</th>
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<tr>
<td></td>
<td>2 Elgin Crosswind</td>
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<tr>
<td></td>
<td>+ 2 Mechanical</td>
<td></td>
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</table>

4/26/99
February 14, 2001

Rodney Langston, Principle Planner
Clark County Comprehensive Planning
500 S. Grand Central Pky.
Las Vegas, Nevada  89155

RE:  Storm Emergency Clean-Up Procedures

Dear Rodney:

It is the policy of the City of Las Vegas to respond immediately to any large scale storm event. Debris and sediment deposited on City streets is responded to within hours of the storm event. Clean-up efforts continue around the clock until all such debris and sediment is removed from all City streets.

In the event of wide-spread flooding, clean-up efforts can last from hours to weeks after the event. As you know, sudden summer flash floods can wreck great havoc in the form of debris on our City streets. After large events it is often necessary to bring in heavy equipment to remove debris. Every possible effort is made to remove this debris as quickly as possible.

If you need any additional information on the City’s post-event clean-up procedures, please contact me at 229-2338.

Sincerely,

[Signature]

Lori Wohletz
Environmental Officer
Department of Public Works

Mayor
Oscar B. Goodman
City Council
Michael J. McDonald
Mayo Pro-tem
Gary Reese
Larry Brown
Lynette Buggs McDonald
Lawrence Weekly
Michael Mack
City Manager
Virginia Valentine
Rodney Langston - Street Sweeping

From:  Lori Wohletz <lwohletz@ci.las-vegas.nv.us>
To:   'Rodney Langston' <rml@ccgwgate.co.clark.nv.us>
Date:  2/15/01 9:49 AM
Subject:  Street Sweeping

Rodney, our street sweeping frequency is every two weeks. We sweep more frequently if it's a problem area like around active construction. We usually hit those areas once per week.
APPENDIX J

Section D

City of North Las Vegas
Department of Public Works -
Documentation on Street
Sweeping Equipment and Paved
Road Cleanup Programs
June 7, 2000

Clark County Comprehensive Planning
Attn: Rodney Langston, Air Quality Senior Planner
500 South Grand Central Pky., 3rd Fl.
P.O. Box 558270
Las Vegas, Nevada 89155-8270

RE: Street Sweeping Information for the City of North Las Vegas

Dear Rodney:

The following information is provided for the development of the PM10 State Implementation Plan regarding the City of North Las Vegas’ street sweeping practices:

1. Attached is a letter from SNE Equipment Services attesting that the entire fleet of the City’s street sweepers meet or exceed all air quality management guidelines as set forth by the South Coast Air Quality Management District (Rule 1186).

2. You requested a listing of the paved roads that tend to be more frequently silted and require more frequent sweeping. The City sweeps all paved roads on a pre-established schedule. Therefore, there is no data available for your request.

3. The current street sweeping program for the City is to sweep paved roadways every two weeks and within 48 hours after a natural event, such as a flood event. The City has been able to maintain this schedule to date.

If you have any questions regarding the above, please feel free to contact me at (702) 633-1259.

Sincerely,

Leslie Long, P.E.
Assistant Public Works Director (Acting)
Resources and Facility Services

cc: Charity Fechter, City of North Las Vegas
    John Runiks, City of North Las Vegas
John Runicks  
City Of North Las Vegas  
50 East Brooks Ave  
North Las Vegas  
Nevada, 89030

Dear John Runicks:

This letter is to inform all interested parties that the current fleet of Tymco regenerative air street sweepers in use with the City Of North Las Vegas meet or exceed all air quality management guidelines as set forth by the Environmental protection agency and the South Coast Air Quality Management District.

Furthermore the cities fleet consist of seven model 600BAH and two model 600.

The City Of North Las Vegas also has in place an exceptional service crew that has factory trained technicians to ensure that these sweepers will continue to provide the most environmentally friendly operation.

Please do not hesitate to contact me if you have any questions regarding this information. I can be reached at (702) 320-6524.

Sincerely,
SNE Equip. Services

Lee M. Tonan
Sweeper Division
JADCC

877-700-RENT
Toll Free to Nearest Location
31 January 2001

Mr. Rodney Langston  
Clark County Comprehensive Planning  
500 S. Grand Central Parkway  
P.O. Box 558270  
Las Vegas, NV 89155-8270

Dear Mr. Langston:

In response to your request for information regarding North Las Vegas sweeping activities, I am providing the following:

- As required by Stormwater Permit, all North Las Vegas streets are swept twice per month.
- The Roadway Maintenance Division responds to storm events with sweepers and other necessary equipment immediately or within 24 hours.

ROADWAY MAINTENANCE DIVISION

[Signature]
John Runiks  
Manager
APPENDIX J

Section E

City of Henderson Department of Public Works - Documentation on Street Sweeping Equipment and Paved Road Cleanup Programs
Memo

To: Christine Kidd, Project Engineer
From: Kenneth H. Schoon, Street Maintenance Supervisor
Date: 06/06/00
Re: Street Sweeper Information

Here are the answers to the list of questions regarding our sweepers.

1. Presently, we have seven (7) street sweepers. They are listed as follows from the oldest to the newest:
   1) One (1) 1995 Tymco 600, Regenerative Air Sweeper
   2) Two (2) 1997 Elgin Eagle, Mechanical Sweepers
   3) Four (4) 1999 Elgin Crosswind, Recirculating Air Sweepers

   All of the above mentioned sweeper models are EPA Rule 1186 compliant. PM-10 efficient statements are attached.

2. The paved roads that need more frequent sweeping due to them being more frequently silted are primarily those roads leading in and out of gravel pit yards or construction sites. These paved roads are as follows:
   Stephanie Street
   Windmill Parkway
   Warm Springs Road
   Parkson Road
   Cape Horn Drive
   Arroyo Grande Blvd.
   Eastern Avenue
   Pecos Road
   American Pacific Drive
   Wigwam Parkway
   South Gibson Road
   Eastgate Road
   Sunset Road
   Horizon Ridge Parkway
   Valle Verde Drive

3. The description of our sweeping plan is as follows. We have seven street sweepers. Six of the seven sweepers are assigned to one operator each. The seventh sweeper is a stand-by sweeper that is used when one of the other six are out-of-service for whatever reason. Four sweepers are on day shift doing residential neighborhoods. These four sweepers are assigned given areas of the city. If time allows, they may overlap or help the other sweeping routes.
Street Sweeper Information
June 6, 2000

Two sweepers are on night shift. These sweepers are assigned to sweep all of the non-residential streets, or the main thoroughfares throughout the city. The night shift sweepers also sweep all of the commercial areas of the city.

Sweeper operators must sweep their assigned route at least twice per month. The problem areas are swept once per week. These are the areas covered by the night shift sweepers.

4. Our plan for doing priority sweeping and/or clean-up of high silt conditions that occur from natural events is to first clean up all heavy silt areas using loaders and dump trucks. Next we follow-up with our mechanical street sweepers, followed by our regenerative air sweepers and/or water truck to flush the remaining silt and debris.

Finally, although we are doing well with the amount of sweepers and sweeper operators we now have, I believe it is possible for the EPA to push us to commit to sweeping the worst case roads more frequently. If we are pushed to sweep more frequently, the City will have to commit to hiring more operators and more sweeping machines so that we can keep up with EPA demands.

If you require more information, contact me at 565-2303 or by cell phone at 373-6033.

Kenneth H. Schoon
Street Maintenance Supervisor
Rodney Langston - PM10 SIP---additional information requested

From: George Nelson <GAN@gtv.ci.henderson.nv.us>
To: <RML@ccgwgate.co.clark.nv.us>
Date: 2/12/01 2:42 PM
Subject: PM10 SIP---additional information requested

** Reply Requested When Convenient **

In response to the additional information requested from the City of Henderson, I have contacted the appropriate people within the City and the following are their response to those questions asked:

1). Time required for mobilization of clean-up activities after a truck spill is 4 hours and time typically required to clean up the spill will depend upon size but the City will continue clean-up until work is completed!

2). Type of equipment used for crack seal --- one BEARCAT propane fired pot with no controls in place to prevent dust emissions. As discussed at our meeting on Feb 05 the City is unaware of technology to prevent dust emissions from cleaning cracks!

If additional information is needed please call lme at 565-2319.

Thanks!
Appendix J

Section F

Municipal Stormwater Permit Requirement Summary
Summary of Requirements
Municipal Stormwater Permit NV0021911
Las Vegas Valley

Permittees: The City of Henderson, City of Las Vegas, City of North Las Vegas, Clark County, Clark County Regional Flood Control District, and Nevada Department of Transportation.

Permittees authorized to discharge into the Las Vegas Wash and its Tributaries in accordance with monitoring requirements and other conditions set forth in the Permit.


Best Management Practices (BMP) for the following activities were developed to comply with the mandates of this permit.

- Catch Basin Maintenance
- Storm Drain Maintenance
- Street Sweeping
- Illegal/Illlicit Connection Elimination
- Hazardous Material Disposal
- Letter Control
- Local Ordinances
- Standard Plans And Specifications
- Regional Stormwater Committee
- Stormwater Monitoring
- Public Education

Report on BMP for street sweeping submitted in accordance with permit requirements.

The overall objective is to sweep streets in urban areas at least every 5 to 10 days, and emphasize removal of debris and mud washoff within 48 hours after a storm. With the exception of some of the rural areas of Clark County, current sweeping practices satisfy this BMP. Present sweeping schedules have been devised to meet the PM10 particulate air quality regulations. These are adequate to meet water quality requirements as well.

- No significant changes were made to the County’s street sweeping program in 1998-99. The BMP sweeping objectives were met. The County street sweeping cost in 1998-99 were $1,544,000.
- No significant changes were made to the City of Las Vegas’ street sweeping program in 1998. The BMP sweeping objectives were met. Las Vegas sweeps about 100,000 curb miles per year.
- The City of North Las Vegas performed 7,084 labor hours sweeping City streets over the past 12 months. The City of North Las Vegas’ Streets
Division sweeps 1,700 lane miles every 4 to 8 days and within 48 hours after storm events, satisfying the BMP maintenance objective.

- The City of Henderson expended $747,074 on street sweeping over the past 12 months. The City now has seven street sweepers in operation.

- A total of 12,366 labor hours was expended by NDOT on street sweeping within the Las Vegas District for calendar year 1998. Approximately 90 percent (11,129 hours) of this total was expended for this activity in Las Vegas Valley. This number is down slightly from calendar year 1997 totals due to staffing fluctuations and increased responsibilities.