

# Sherwin-Williams Site Cleanup

## Emeryville, California

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February 28, 2012

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of February 13 through 17, 2012. Following is a brief overview of site activities occurring during this period and a discussion of air monitoring results compared to site action levels. Charts and figures are attached which show running averages for Respirable Particulate Matter of 10 micrometers or less (RPM<sub>10</sub>) running averages; Total Volatile Organic Compounds (TVOC) running averages; and wind speed and direction.

### Site Activities

Site activities for the week included:

- Dust, vapor and odor control measures continued to be implemented onsite. Control measures included: localized use of windscreens, water, and dust suppressants, and covering waste material stockpiles with plastic sheeting;
- Street sweeper was on site to clean site roads and adjacent roads during periods of truck traffic entering and leaving the site and to clean site paved surfaces no longer in use;
- Imported 60 truck-loads (approx. 1,500 tons) of Syar Class II ¾ inch aggregate base material for the Slurry Wall Extension (SWE) cap installation;
- Imported 40 truck-loads (approx. 880 tons) of Syar Class II Perm gravel for final cover of backfill areas;
- Excavated about 100 cubic yards of soil/material on north end of property around storm drain inlets and remaining rail spur line. Backfilled areas with gravel below groundwater table and then with low-k backfill material to service. Compaction testing was performed at met specifications. Drain inlets completed and ready to accept storm water once temporary Storm Water pollution BMPs are lifted;
- Placement of the final gravel cover in the former main excavation area continued;
- Restoration of Novartis parking lot continued;
- The excavation of storm drain adjacent to Building 31 was temporarily suspended pending characterization of subsurface soil;
- Excavation for the SWE cap and installation of the clay cap was completed, except for the area under the truck ramp. Design depths and widths were achieved;
- Groundwater was periodically pumped from within SWE cap excavation and containerized onsite prior to treating and discharging through onsite system;
- Prior to installation, clay stockpile was covered during precipitation and spread out during dry conditions in order to achieve appropriate moisture conditioning;
- Compaction testing of the clay cap was performed and met specifications of 85% or greater compaction with moisture 20% or greater;
- Fabric, tape, geogrid, and gravel were placed on top of the clay cap per design. The gravel cover met lift and compaction requirements;
- Analytical testing of stockpiled waste material occurred during the week for

characterization of material for disposal;

- Storm Water pollution BMPs continued to be installed (including straw wattles) and pumps were set up in the north end sump by the plugged manhole;
- All waste stockpiles covered with plastic and anchored down with sandbags and soil.

#### **Air Monitoring**

- Daily calculation of perimeter air action levels was performed, based on background conditions and level of source material being excavated from February 13 to 17;
- Calibration of the seven perimeter AMS locations was performed February 15;
- Daily perimeter real time air monitoring at seven AMS locations for RPM<sub>10</sub> and Total volatile organic compounds (TVOCs) from February 13 to 17;
- Daily meteorological data is collected on site and wind speed and direction is calculated in real time to determine upwind and downwind direction. A wind rose for the week is provided below;
- Running averages for TVOC and RPM<sub>10</sub> since the start of the project continue to be below their respective action levels at all AMSs. Charts for the running average for TVOCs and PM<sub>10</sub> are provided below.

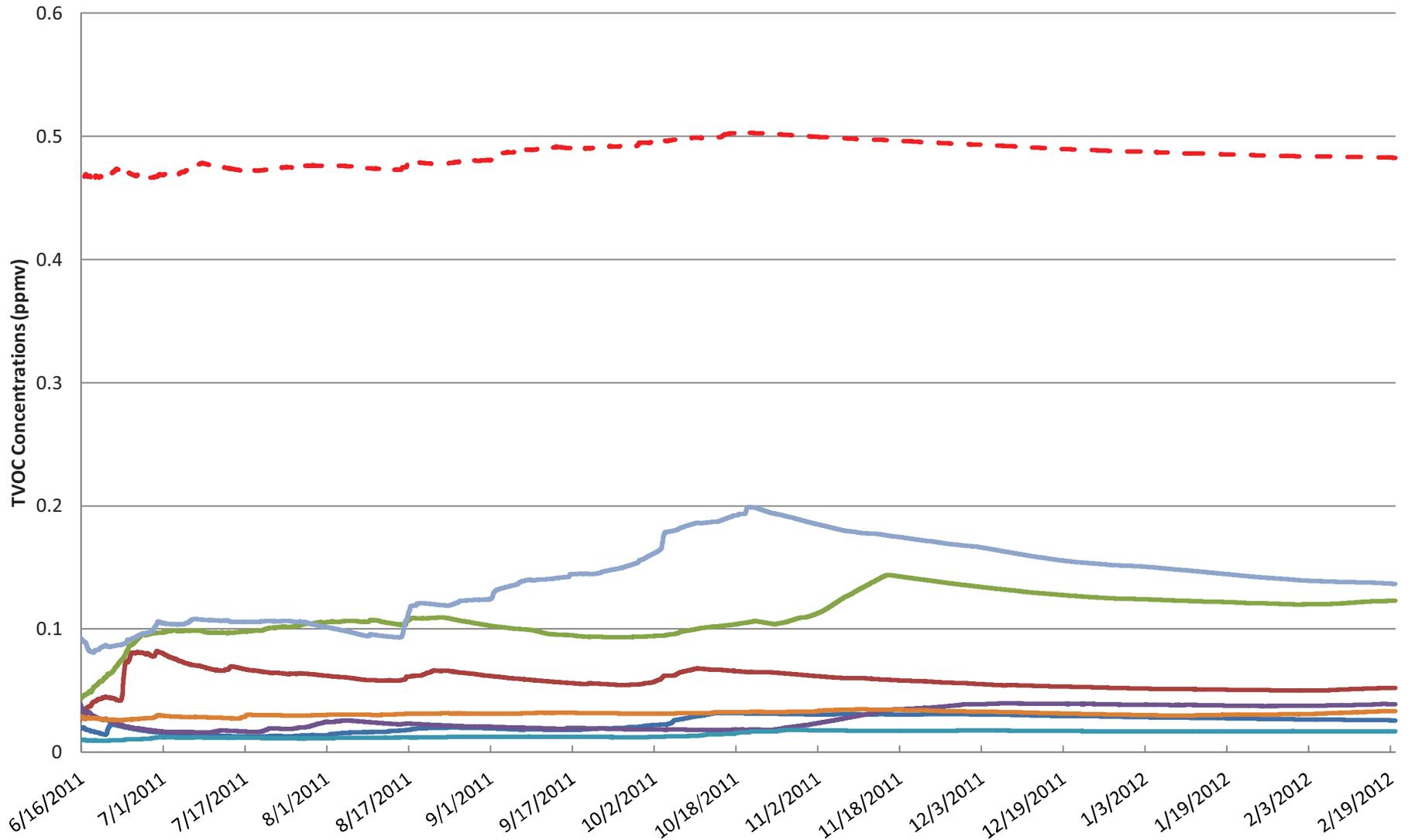
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

CDM Smith Inc.

# TVOC Running Average 06/16/2011 through 2/19/2012

Station 1 Station 2 Station 3 Station 4 Station 5 Station 6 Station 7 Subchronic Action Level

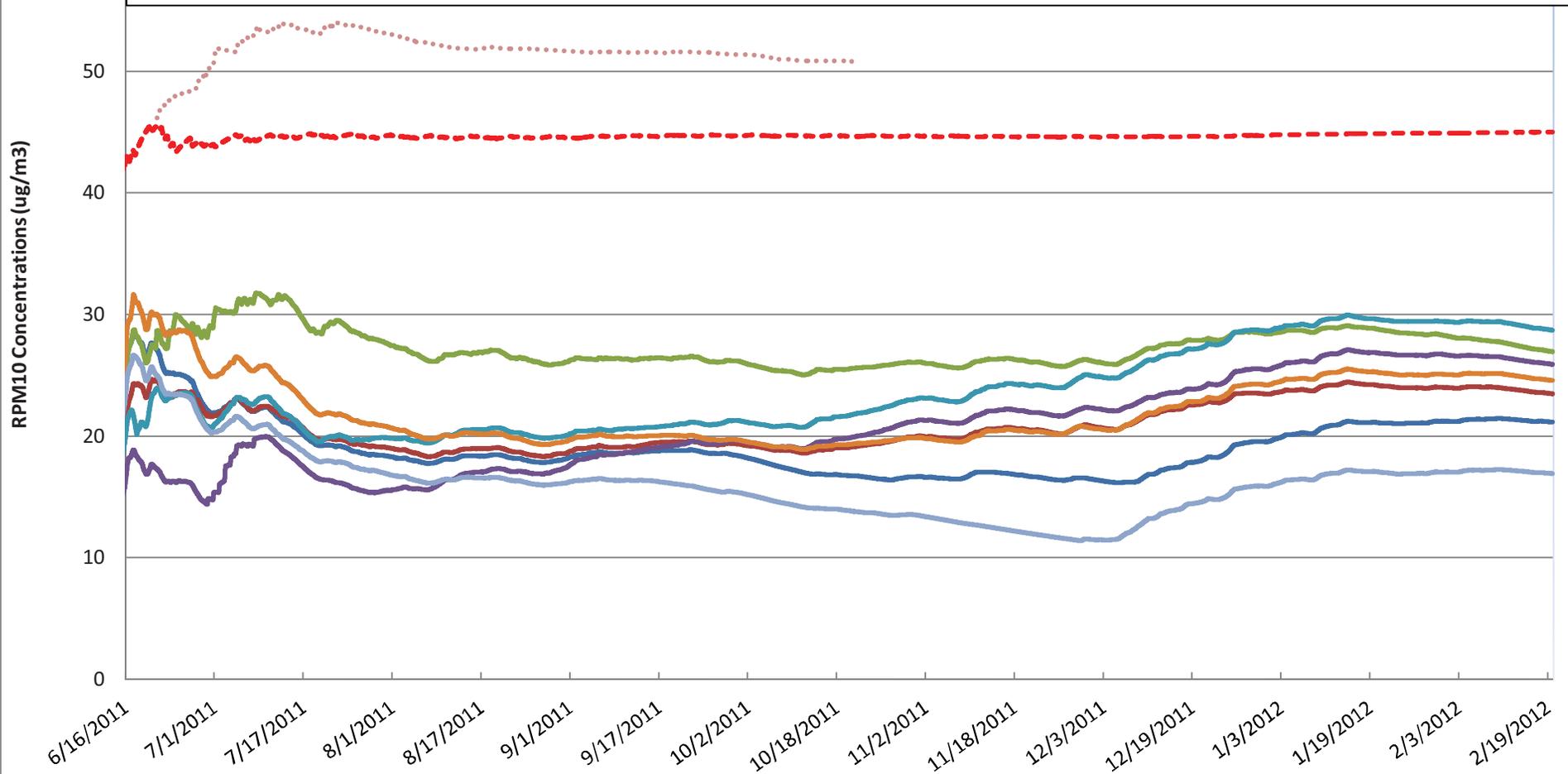
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)



## RPM10 Running Average 06/16/2011 through 2/19/2012

- Station 1 (no misters)      Station 2 (no misters)      Station 3 (includes misters)
- Station 4 (no misters)      Station 5 (no misters)      Station 6 (no misters)
- Station 7 (no misters)      Subchronic Action Level with misters      Subchronic Action Level without misters

Note: 2/17/12 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Vadose Zone (16) Action level for non working hours & weekend=50 (BAAQMD Regulatory value)  
 Misters use ceased on 10/20/2011 and did not recommence. Mister delta is no longer taken into account for calculation of the Subchronic-Action Level from that point forward.

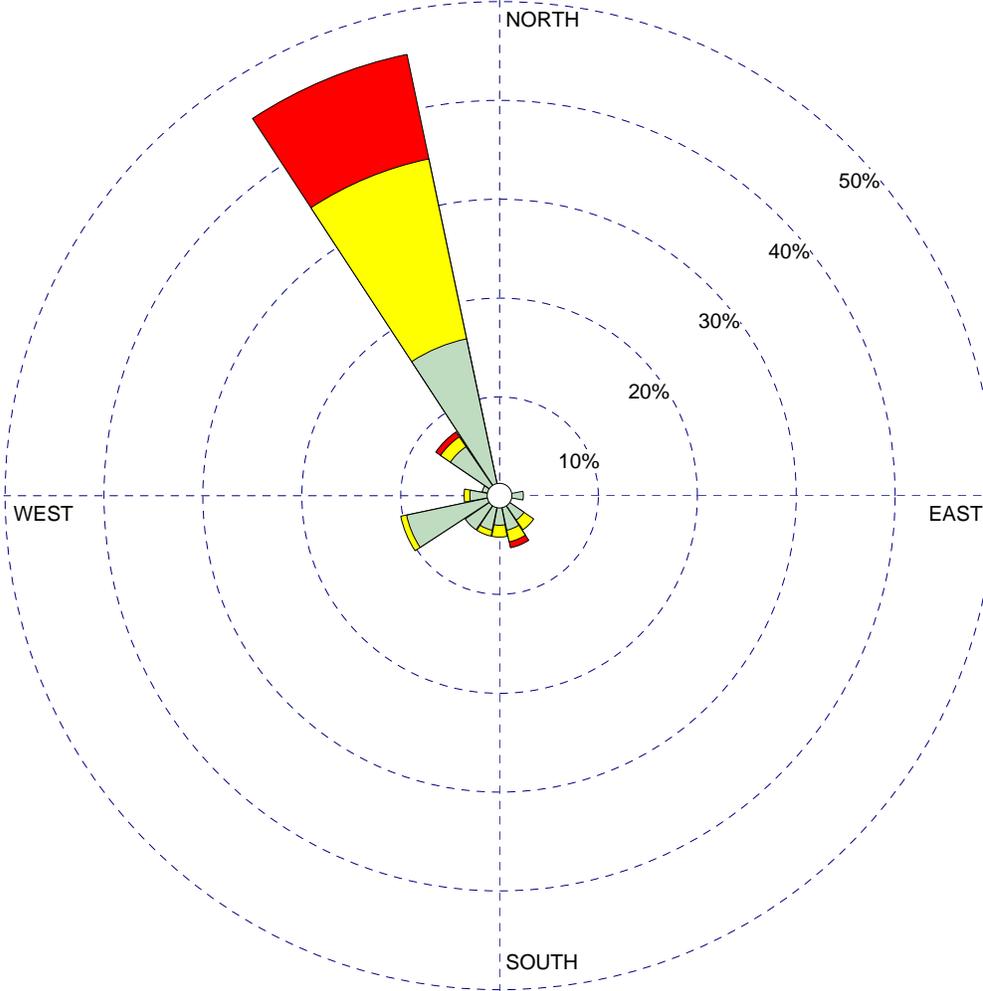


WIND ROSE PLOT:

**Station #SW**

DISPLAY:

**Wind Speed  
Direction (blowing from)**



WIND SPEED  
(m/s)

- 5.5 - 6.9
- 3.9 - 5.4
- 2.4 - 3.8
- 1.9 - 2.3
- 1.4 - 1.8
- < 1.4

Calms: 1.04%

COMMENTS:

DATA PERIOD:

**Start Date: 2/12/2012 - 22:00  
End Date: 2/19/2012 - 21:00**

COMPANY NAME:

MODELER:

CALM WINDS:

**1.04%**

TOTAL COUNT:

**167 hrs.**

AVG. WIND SPEED:

**2.01 m/s**

DATE:

**2/20/2012**

PROJECT NO.: