

# Sherwin-Williams Site Cleanup

## Emeryville, California

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Oct 18, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of October 10 and going through October 14, 2011. 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, odor and vapor controls (water, odex misters, T-200, Hydroseal and street sweeping) were applied to excavation, stockpiles and exclusion work areas;
- Misters were not operated from October 10 and October 11 due to rainy/damp conditions.
- Operation of street sweeper onsite on paved areas; truck exit ramp, Halleck Truck route and on adjacent roads surrounding the site;
- Loading of stockpiled non-hazardous material into 203 trucks (approx. 4,900 tons) for transport to local landfills;
- Loading of California regulated hazardous waste (CAT<sub>2</sub>) into 16 railcars (approx. 1,800 tons) for transport to ECDC landfill in East Carbon, Utah. This was the six unit train (unit trains between 40 and 75 cars) of CAT<sub>2</sub> waste shipped from the site.
- Backfilling and compaction into the excavation of 72,000 cubic yards of low permeable soil in 6 to 12 inch lifts. The initial lift ranges from 2.5 feet to 3 feet on the bottom of the un-compacted excavation at elev. -11;
- Compaction testing was performed and met earthwork construction specification of minimum 90% of the maximum dry density of the backfill material below the water table;
- Imported and stockpiled 331 truckloads of soil for placement as the lower hydraulic conductivity (low K) backfill fill materials.
- The existing slurry wall (elev. +8 and below) along the eastern and upgradient area of the excavation continues to remain in place to control water inflow. The area is separated by a diversion ditch on the down gradient toe of the slope. Water is pumped from this diversion ditch into the main dewatering sumps. Removal of this material is schedule to begin excavation during the third week in October.
- Analytical testing of stockpiled waste material occurred during the week for characterization of material for disposal;
- Excavation dewatering was performed from three primary sumps ranging in elevation 3 to -9.5. Additional dewatering was performed from trenches and excavation areas by



pumping or draining these areas into the primary sumps where the water is pumped into the onsite pre-treatment system. Treated water from the dewatering system is discharged into the local POTW per the requirements of the Site's EBMUD discharge permit.

- A total of 603 rail cars of hazardous waste has been loaded and transported to permitted landfill facilities in Grandview Idaho or East Carbon Utah. This represents approximately 66,500 tons of material hauled off site by rail car.
- A total of 1,335 trucks of non-hazardous material has been loaded and transported to local permitted landfill facilities in Livermore and Pittsburg California. This represents approximately 31,500 tons of non-hazardous material hauled off site by trucks.
- A total of approximately 98,000 tons of material has been excavated and transported for offsite disposal. This represents approximately a 93% completion of projected waste material to be excavated and transported off-site.

### **Air Monitoring and Sampling**

- Daily calculation of perimeter air action levels was performed, based on background conditions, contributing misting dust controls and level of source material being excavated.;
- Daily calibration of the seven perimeter AMS locations was performed;
- Daily perimeter real time air monitoring at seven AMS locations for RPM10 and TVOCs;
- 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.
- Communication errors resulting from radio interference resulted in a minor data loss for the AMS #1, AMS #2, and AMS#6 on October 13 and October 14. Since the communication errors occurred primarily overnight, air monitoring during work hours was not affected. A majority of the data was recovered.
- No exceedances of air quality standards occurred during the week. Aerosol particles less than 10 micrometers from the perimeter mister lines are being measured in the dust monitors at the site perimeter. To account for the influence of the misters on the RPM10 levels for October 12 through October 14, a delta value was added to the action level of Air Monitoring Station (AMS) #3 and the station directly downwind to AMS#3. This approach has been validated by air sample collection and analysis.
- Subsequent 4 hour rolling averages for RPM10 have been below the action levels at all AMSs. Higher 4 hour rolling averages for RPM10 have been attributed to import of lower hydraulic conductivity (low K) backfill fill materials from offsite. Running averages for TVOC and RPM10 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 RPM10 are provided below.



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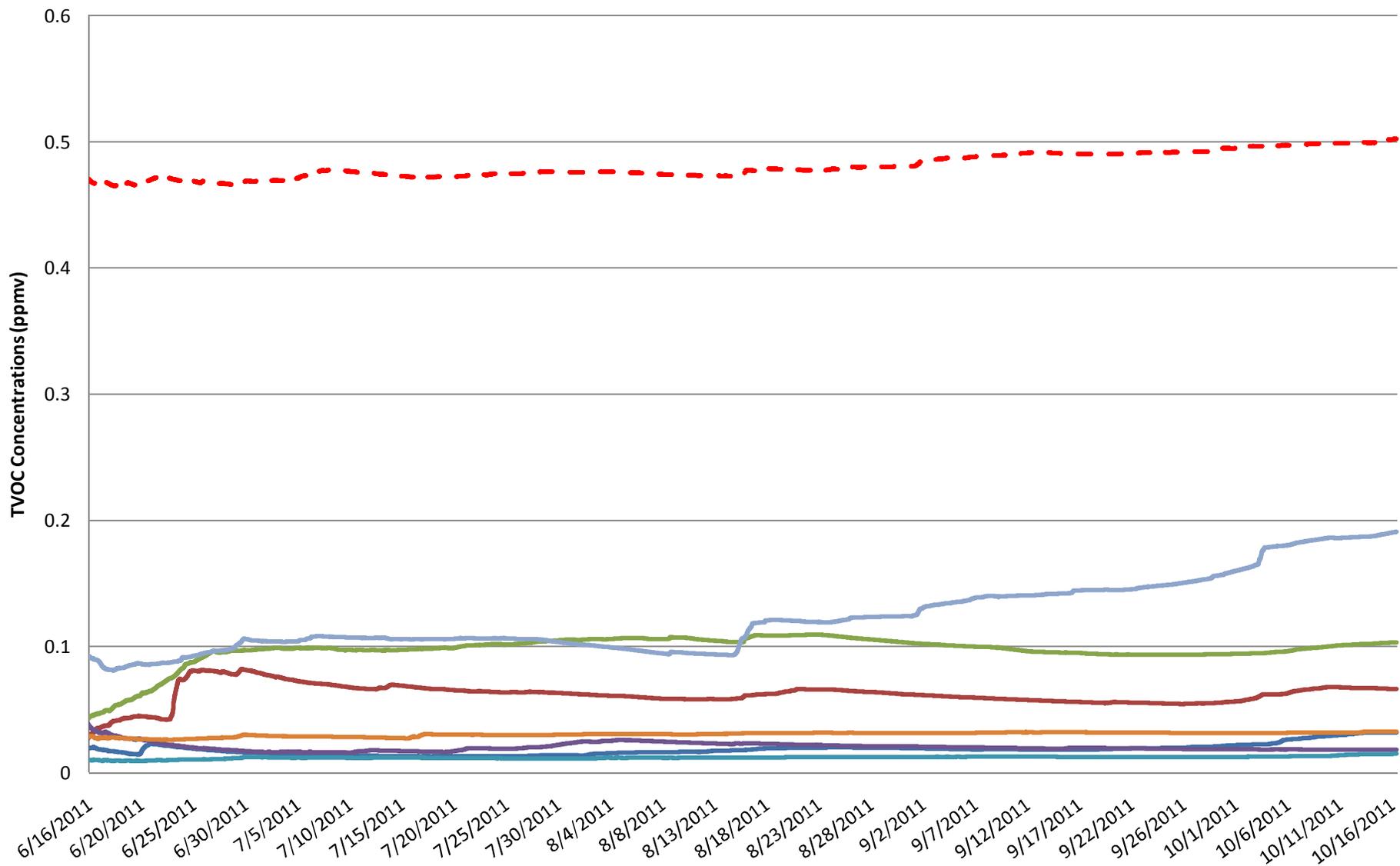
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

Camp Dresser & McKee Inc.

# TVOC Running Average Since 06/16/11

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

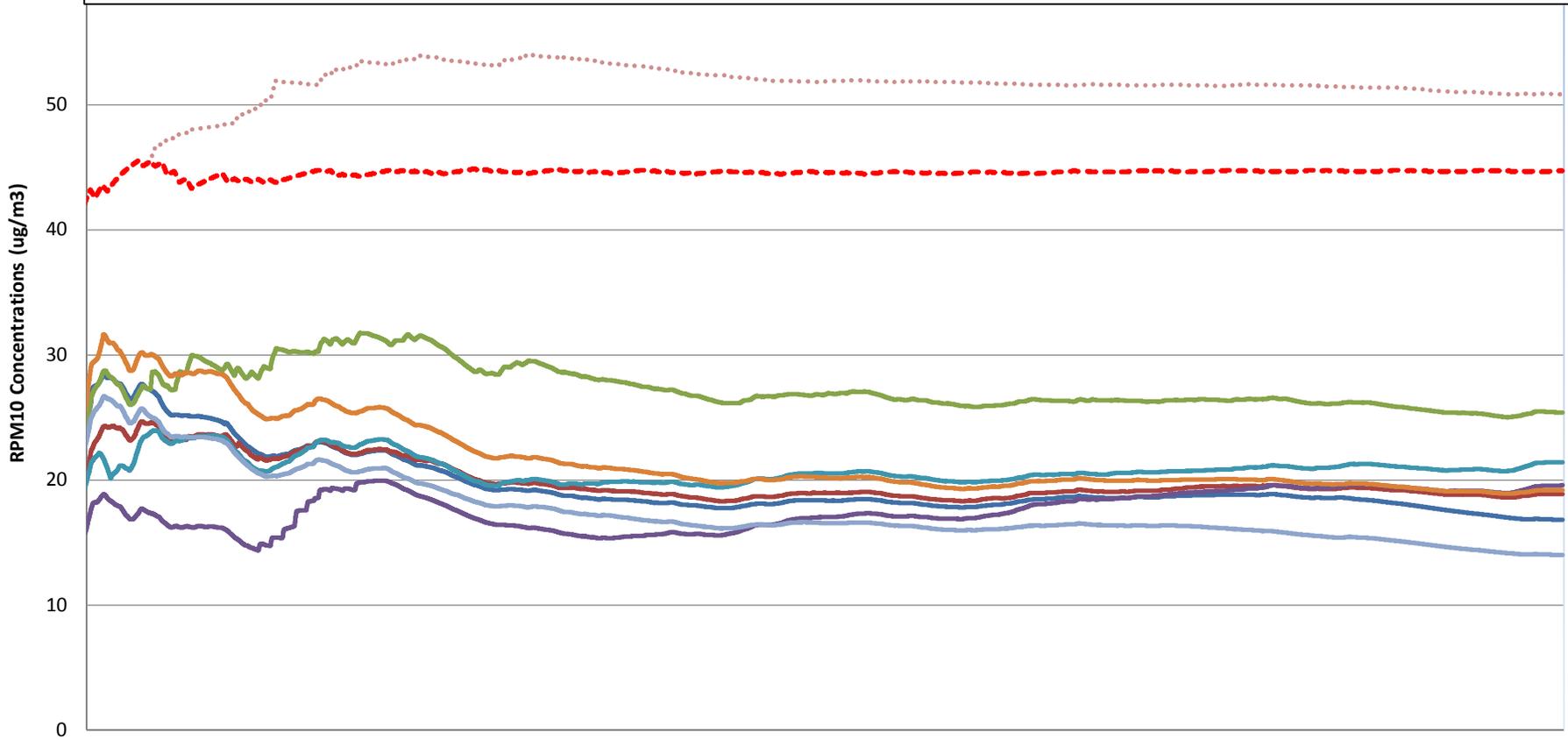
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)



# RPM10 Running Average Since 06/16/11

- 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: 10/14/11 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Saturated Zone(17)  
 +Mister effects(today's values 7:30AM-12:30PM: 8 12:30PM-9:30PM: 31)  
 Action level for non working hours & weekend=50 (BAAQMD Regulatory value)



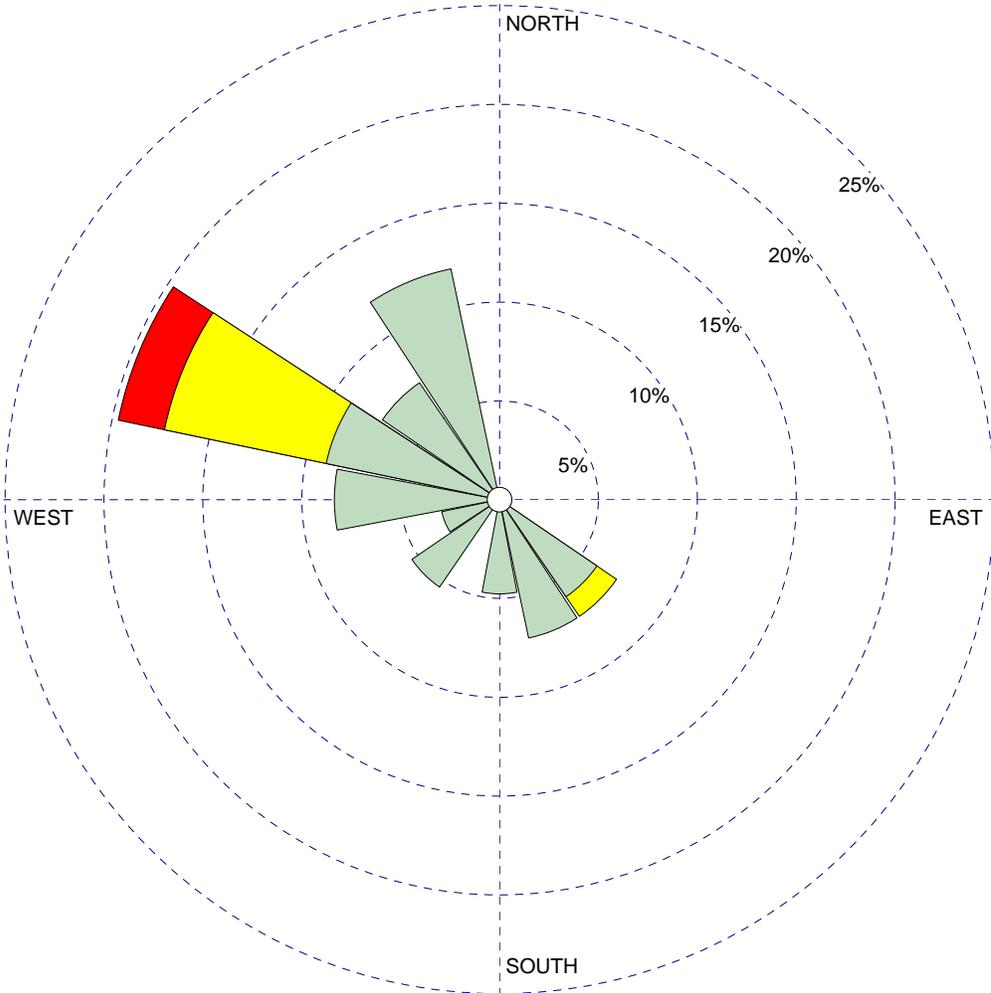
6/16/2011 6/20/2011 6/25/2011 6/30/2011 7/5/2011 7/10/2011 7/15/2011 7/20/2011 7/25/2011 7/30/2011 8/4/2011 8/8/2011 8/13/2011 8/18/2011 8/23/2011 8/28/2011 9/2/2011 9/7/2011 9/12/2011 9/17/2011 9/22/2011 9/26/2011 10/1/2011 10/6/2011 10/11/2011 10/16/2011

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: 5.79%

COMMENTS:

DATA PERIOD:

**Start Date: 10/9/2011 - 22:00  
End Date: 10/16/2011 - 21:00**

COMPANY NAME:

MODELER:

CALM WINDS:

**5.79%**

TOTAL COUNT:

**168 hrs.**

AVG. WIND SPEED:

**1.11 m/s**

DATE:

**10/17/2011**

PROJECT NO.: