

# Sherwin-Williams Site Cleanup

## Emeryville, California

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Nov 11, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of November 7 and going through November 11, 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 controls (water, Hydroseal and street sweeping) were applied to excavation, stockpiles and exclusion work areas;
- Misters along Horton were not operated during the week of November 7 through November 11, in lieu of using other forms of dust control, due to personnel working in close proximity. Currently only clean backfill is being handled in the vicinity of the Horton Street construction wall and release of impacted dust or emissions of volatile organic compounds is not anticipated;
- Excavation of Breach #2 was started during the week and remained open over the weekend. Crews were onsite during the weekend to monitoring slurry levels and confirm trench stability. No work was performed.
- Operation of street sweeper onsite on paved areas; truck exit ramp, Halleck Truck route and on adjacent roads surrounding the site;
- Shoring wall sheeting and piles were removed as backfill of the excavation progressed;
- Loading and export of 33 truckloads of concrete for recycling at a local facility;
- Loading and export of 8 railcars of Category 2, RCRA hazardous waste for transport to occurred during the week of November 7 through 11;
- Backfilling and compaction into the excavation of 8,772 cubic yards of low permeable soil, in 6 to 12 inch lifts;
- Compaction testing was performed and met earthwork construction specification of minimum 95% of the maximum dry density of the backfill material above the water table;
- Imported 731 truckloads (~15,350 tons) of soil for placement of lower hydraulic conductivity (low K) backfill fill materials.
- Imported and stockpiled 15 truckloads (~350 tons) of drain rock for placement in slurry wall breaches;
- Condon Johnson onsite November 7 through November 11 to remove steel pilings.
- Analytical testing of stockpiled waste material occurred during the week for characterization of material for disposal;



- Analytical and geotechnical testing of imported fill material occurred during the week to confirm that backfill specifications are met;
- Excavation dewatering was performed from one remaining sump at elevation -11, located in the southwestern portion of the excavation area. Treated water from the dewatering system is discharged into the local POTW per the requirements of the Site's EBMUD discharge permit.

### **Air Monitoring and Sampling**

- Daily calculation of perimeter air action levels was performed, based on background conditions and level of source material being excavated;
- Daily calibration of the seven perimeter AMS locations was performed November 7 through November 11;
- Daily perimeter real time air monitoring at seven AMS locations for RPM10 and Total volatile organic compounds (TVOCs), except where described below;
- 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.
- Due to the breach construction at the location of AMS#7, the station was relocated further south approximately 100 ft. The background dust level is calculated using an average of upwind PM10 concentrations ;
- On November 11 the dust monitor was disconnected from power supply and communications during unit maintenance and replacement in the evening. The dust monitor remained disconnected over the weekend. No intrusive activities took place over the weekend and power and communications were restored on November 14 in the AM once the power disconnect was discovered.
- No exceedances of air quality standards occurred during the week;
- Misters were not used along the Horton Street excavation during the week due to the presence of Condon Johnson personnel removing shoring. Therefore, no mister delta was incorporated into PM10 action levels.
- Running averages for TVOC and PM10 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 PM10 are provided below.
- Elevated TVOC readings have continued to be observed at AMS#3 during the week from November 7 to November 11. These readings were present overnight and during the weekend and do not correlate strongly with onsite activities. Additionally, no exposed excavation is presently adjacent to Horton Street, in the vicinity of AMS#3. Only clean backfill operations and the shoring disassembly are present in the area of AMS#3 at this point in time.



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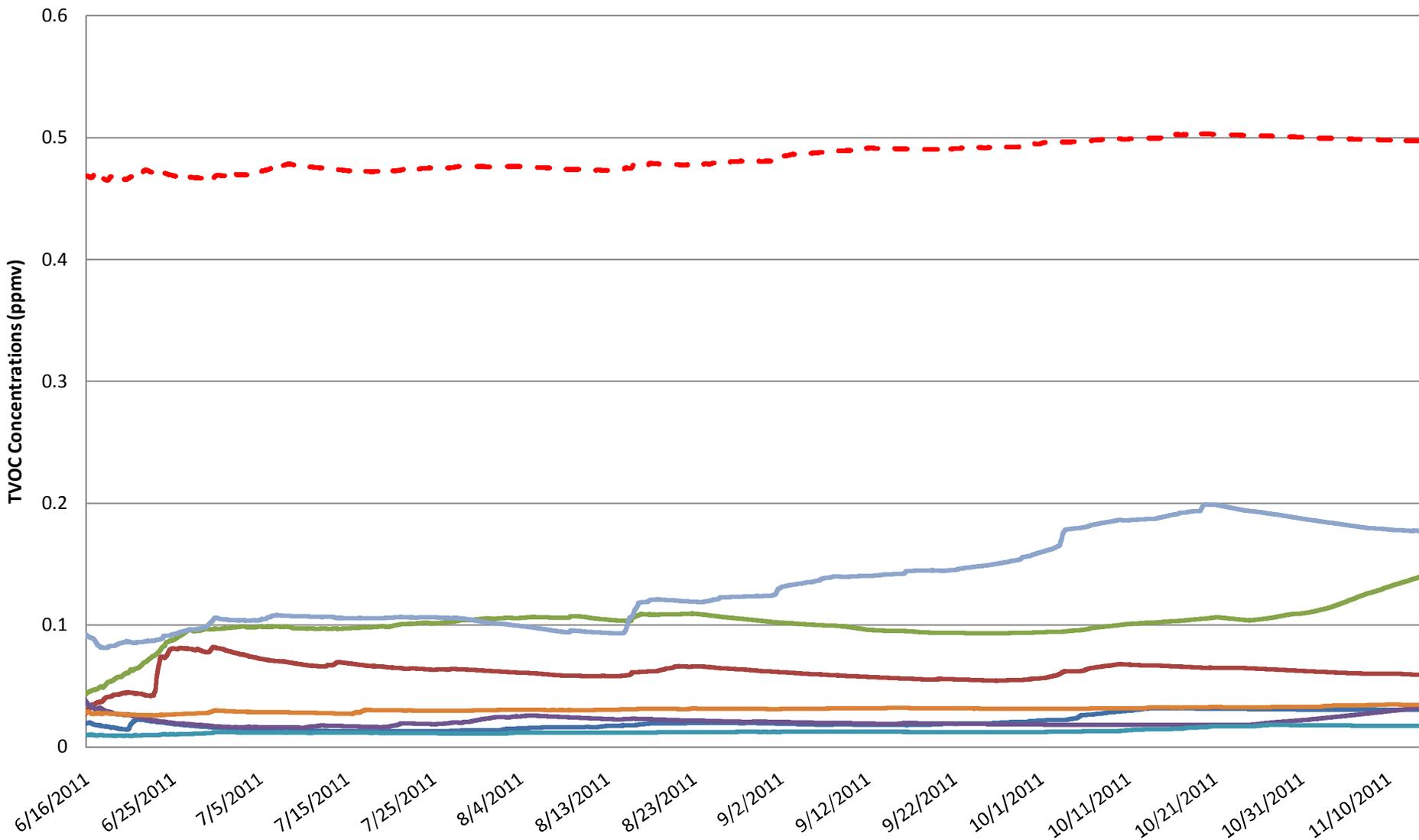
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

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

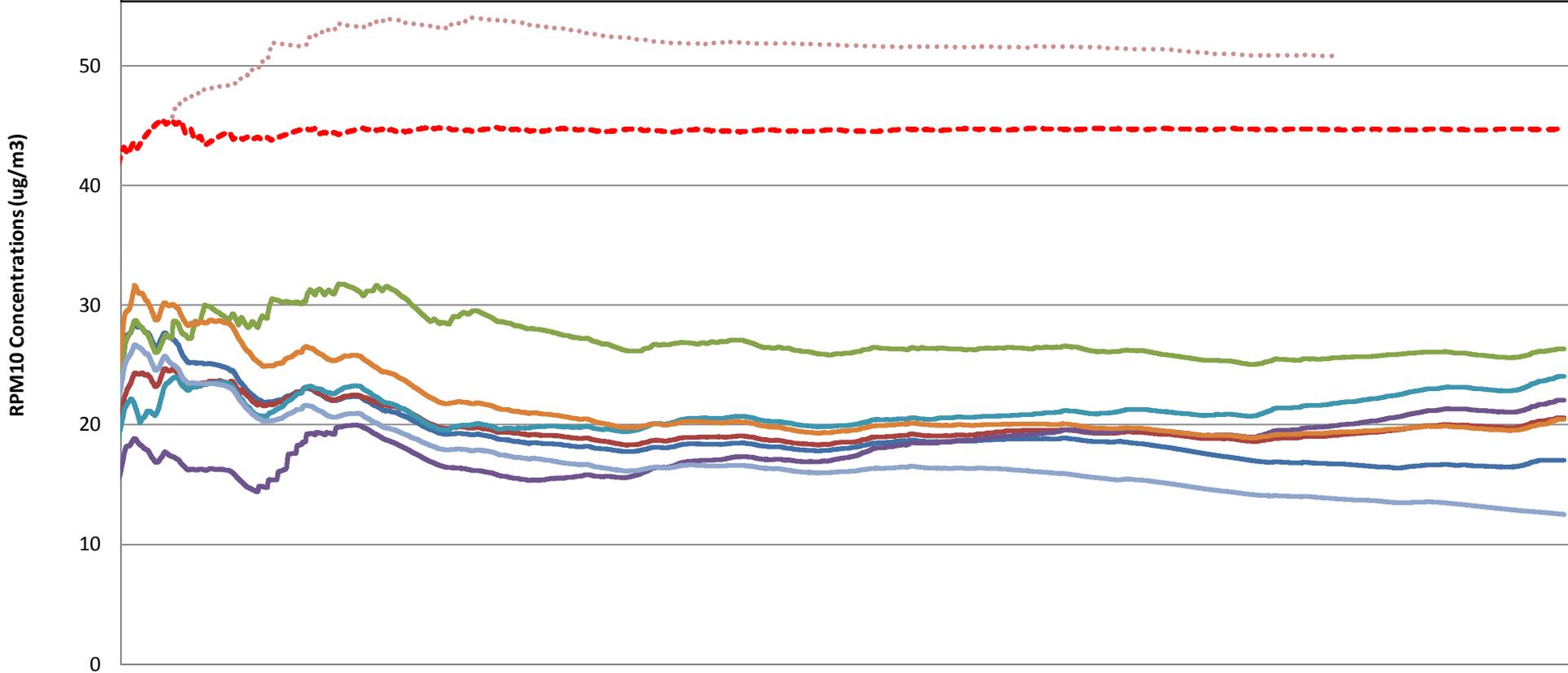
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)



## 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: 11/11/11 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Saturated Zone (17) 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.

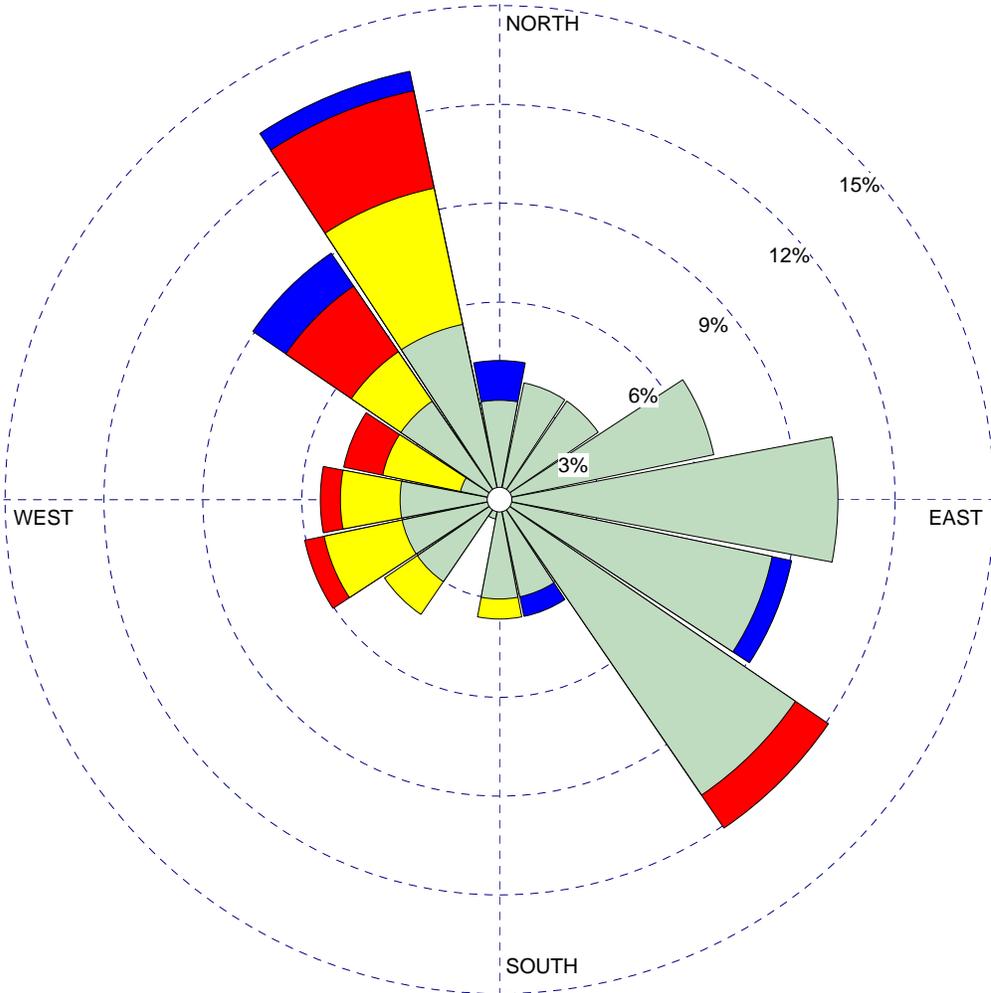


WIND ROSE PLOT:

**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: 0.00%

COMMENTS:

DATA PERIOD:

**Start Date: 11/6/2011 - 22:00  
End Date: 11/13/2011 - 21:00**

COMPANY NAME:

MODELER:

CALM WINDS:

**0.00%**

TOTAL COUNT:

**166 hrs.**

AVG. WIND SPEED:

**1.04 m/s**

DATE:

**11/15/2011**

PROJECT NO.: