

Sherwin-Williams Site Cleanup

Emeryville, California

Dec 19, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of December 12 and going through December 18, 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 (RPM₁₀) 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, T-200, and street sweeping) were applied to excavation, stockpiles and exclusion work areas;
- Operation of street sweeper onsite on paved areas; truck exit ramp, Halleck Truck route and on adjacent roads surrounding the site during periods of truck import and export;
- Excavation of Breach #3 and backfill with drain rock.
- Breakup and stockpile of non-hazardous concrete in preparation for shipping offsite for recycling.
- Inceptor trench excavation in the main excavation was completed on December 12. Eleven GSE Curtain Wall panels were placed within the interceptor trench, for a total of 232 feet of curtain wall placed.
- Loading and export of 13 railcars (approx. 1,300 tons) of California hazardous material for transport to offsite landfills;
- Imported 154 truckloads (3,250 tons) of soil for placement of lower hydraulic conductivity (low K) backfill fill materials;
- Imported 34 truckloads (730 tons) of drain rock for the interceptor trench and breaches;
- Excavation and over-excavation of approximately 735 cubic yards of low K material from former sump area due to wetness and incomplete compaction. Drain rock was placed as bridging within former sump area and backfill was placed on top.
- 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 and 90% maximum density below the water table;
- Analytical testing of stockpiled waste material occurred during the week for characterization of material for disposal;
- pH monitoring of groundwater in Breach 1 and 2 risers;
- In the early part of the week 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; in the latter part of the week the



sump was over-excavated and filled in with drain rock as bridging material and then covered with compacted soil.

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 on December 12, 13, 15 and 16.
- Daily perimeter real time air monitoring at seven AMS locations for RPM₁₀ and Total volatile organic compounds (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;
- Higher 4 hour rolling average RPM₁₀ levels were noted site-wide throughout the week. High levels were due to hazy conditions and high particulate levels regionally, as well as high relative humidity levels (RH) that coincided with low wind-speeds.
- Two anomalous periods of RPM₁₀ levels were observed at AMS-7 on December 13 and December 16. These conditions resulted in exceedances of the RPM₁₀ acute action level on December 13 from 7:30 AM to 9:45, with exceedances ranging from 0.3 µg/m³ to 7 µg/m³ over the acute action level of 124 µg/m³, and on December 16 from 7:30 AM to 8:15 AM, with exceedances ranging from 4 µg/m³ to 10 µg/m³ over the acute action level of 89 µg/m³. During both of these brief periods the wind shifted directions and resulting in AMS-7 being intermittently upwind, which had no discernible effect on the RPM₁₀ levels observed. In each instance dust control measures were deployed when the exceedance was noted, per established protocol. Observations were also gathered for the duration of each particulate spike but no onsite dust generating activities were occurring in the vicinity of AMS-7 during the periods in question.
- Misters are no longer in place along the Horton Street. No excavation of source material remains and therefore there is no need for dust and vapor controls in the vicinity of the main excavation. As such, no mister delta will be incorporated into RPM₁₀ action levels moving forward;
- 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 PM₁₀ are provided below.

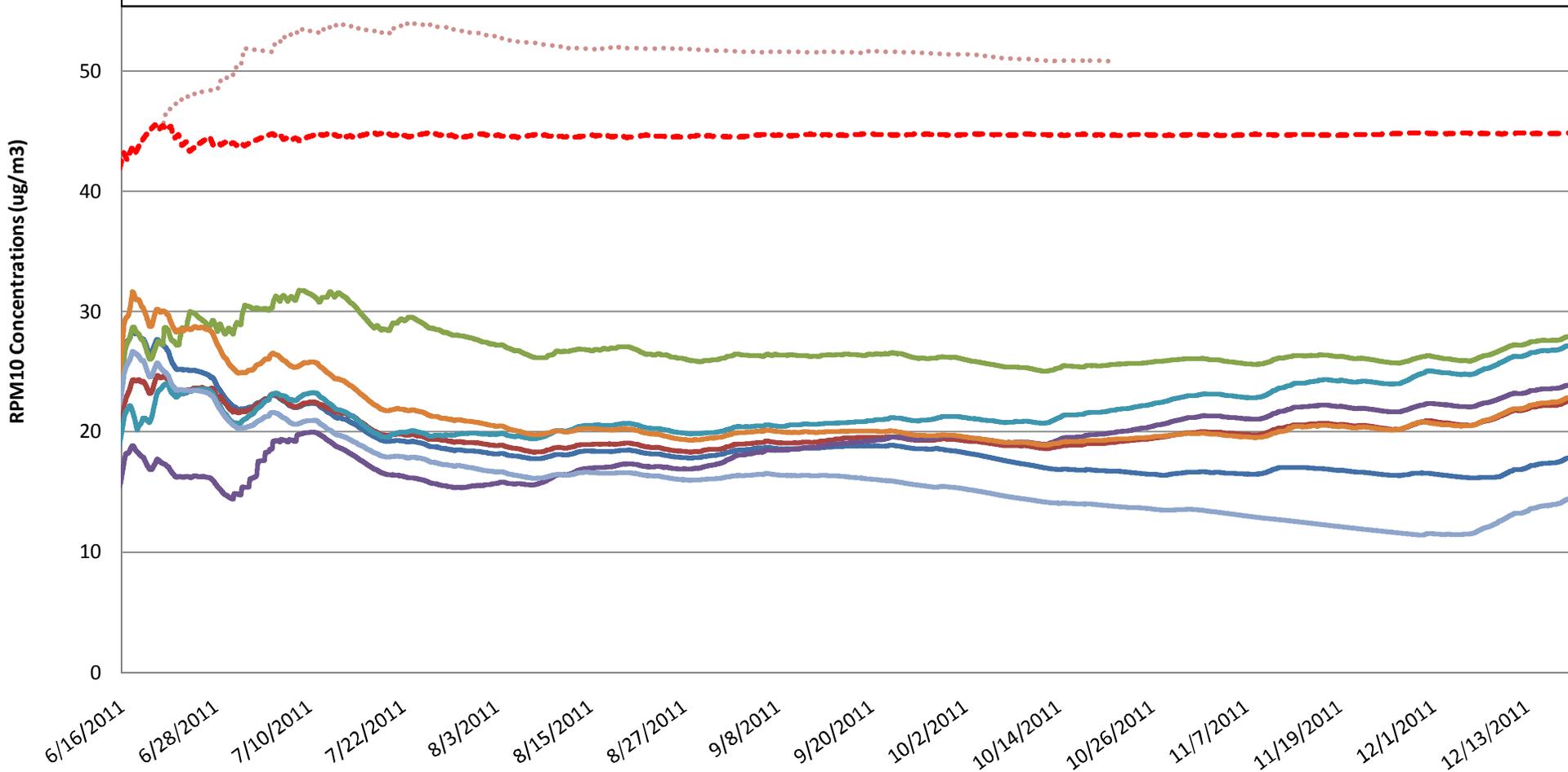
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

Camp Dresser & McKee Inc.

RPM10 Running Average 06/16/2011 through 12/18/2011

- | | | |
|---|---|--|
| — 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 |

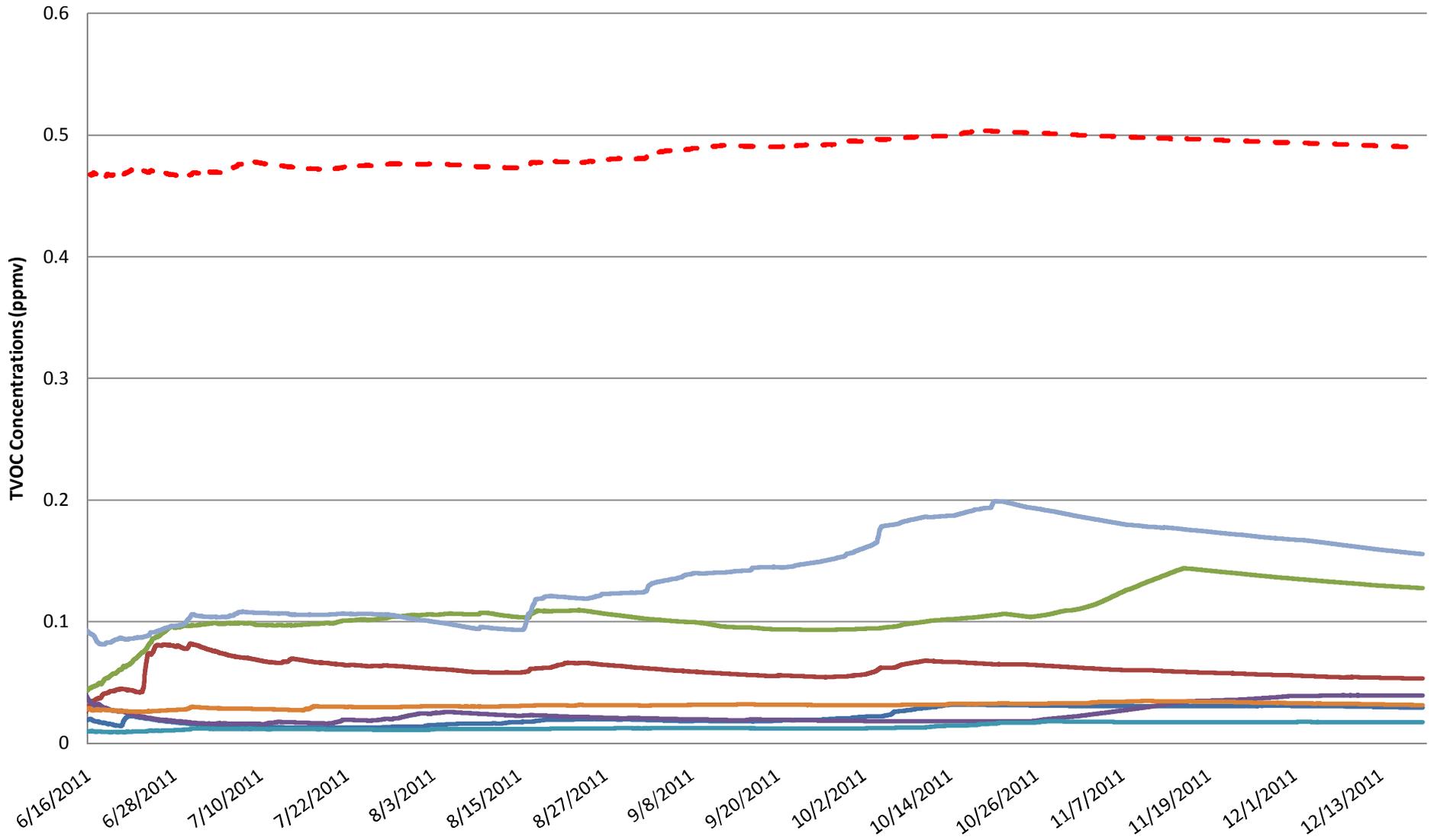
Note: 12/16/11 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Vadose Zone (16) Action level for non working hours & weekend=50 (BAAQMD Regulatory value)
 Misters use ceased on 10/20/2011 and did not recommence. Mister delta is no longer taken into account for calculation of the Subchronic-Action Level from that point forward.



TVOC Running Average 06/16/2011 through 12/18/2011

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)

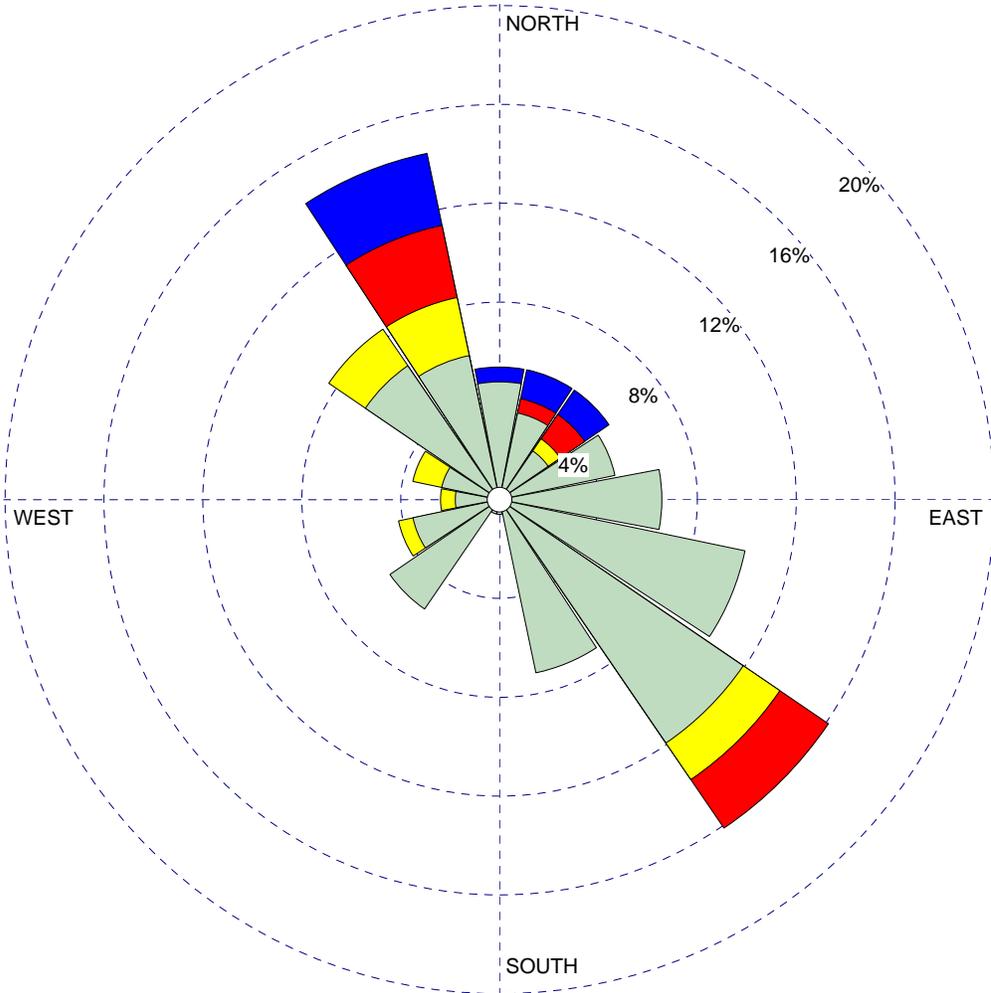


WIND ROSE PLOT:

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: 12/11/2011 - 22:00
End Date: 12/18/2011 - 21:00**

COMPANY NAME:

MODELER:

CALM WINDS:

0.00%

TOTAL COUNT:

168 hrs.

AVG. WIND SPEED:

0.92 m/s

DATE:

12/20/2011

PROJECT NO.: