

Sherwin-Williams Site Cleanup

Emeryville, California

Nov 10, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of October 31 and going through November 4, 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, odor and vapor controls (water, T-200, Hydroseal 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;
- Loading of non-hazardous material into 179 trucks for transport to a local landfill;
- No transport of hazardous waste occurred during the week of October 31 to November 4;
- Imported and stockpiled 403 truckloads (~2,000 tons) of soil for placement of lower hydraulic conductivity (low K) backfill fill materials.
- Imported and stockpiled 34 truckloads (~70 tons) of soil for placement of higher hydraulic conductivity (high K) backfill fill materials.
- Backfilling and compaction into the excavation of 5,138 cubic yards of low permeable soil and 540 cubic yards of high permeability sand, in 6 to 12 inch lifts;
- 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;
- Condon Johnson onsite October 31 through November 4 to remove wooden lagging .
- Analytical testing of stockpiled waste material occurred during the week for characterization of material for disposal;
- 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.
- A total of 613 rail cars of hazardous waste has been loaded and transported to permitted landfill facilities in Grandview Idaho or East Carbon Utah. This represents approximately 67,100 tons of material hauled off site by rail car.
- A total of 1,829 trucks of non-hazardous material has been loaded and transported to local permitted landfill facilities in Livermore and Pittsburg California. This represents



approximately 43,900 tons of non-hazardous material hauled off site by trucks.

- A total of approximately 111,000 tons of material has been excavated and transported for offsite disposal.

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 October 31 through November 4;
- 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.
- 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} ~~installing~~ shoring and lagging. Therefore, no mister delta was incorporated into PM10 action levels.
- Subsequent 4 hour rolling averages for PM10 have been below the action levels at all AMSs. Higher 4 hour rolling averages for PM10 have been attributed to import of lower hydraulic conductivity (low K) backfill fill materials from offsite. 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 were observed at AMS#3 during the week from October 31 to November 4. These readings were present overnight and during the weekend and do not correlate strongly with onsite activities. Additionally, no exposed excavation is present adjacent to Horton Street, in the vicinity of AMS#3. Only clean backfill is present in that area at this point in time.

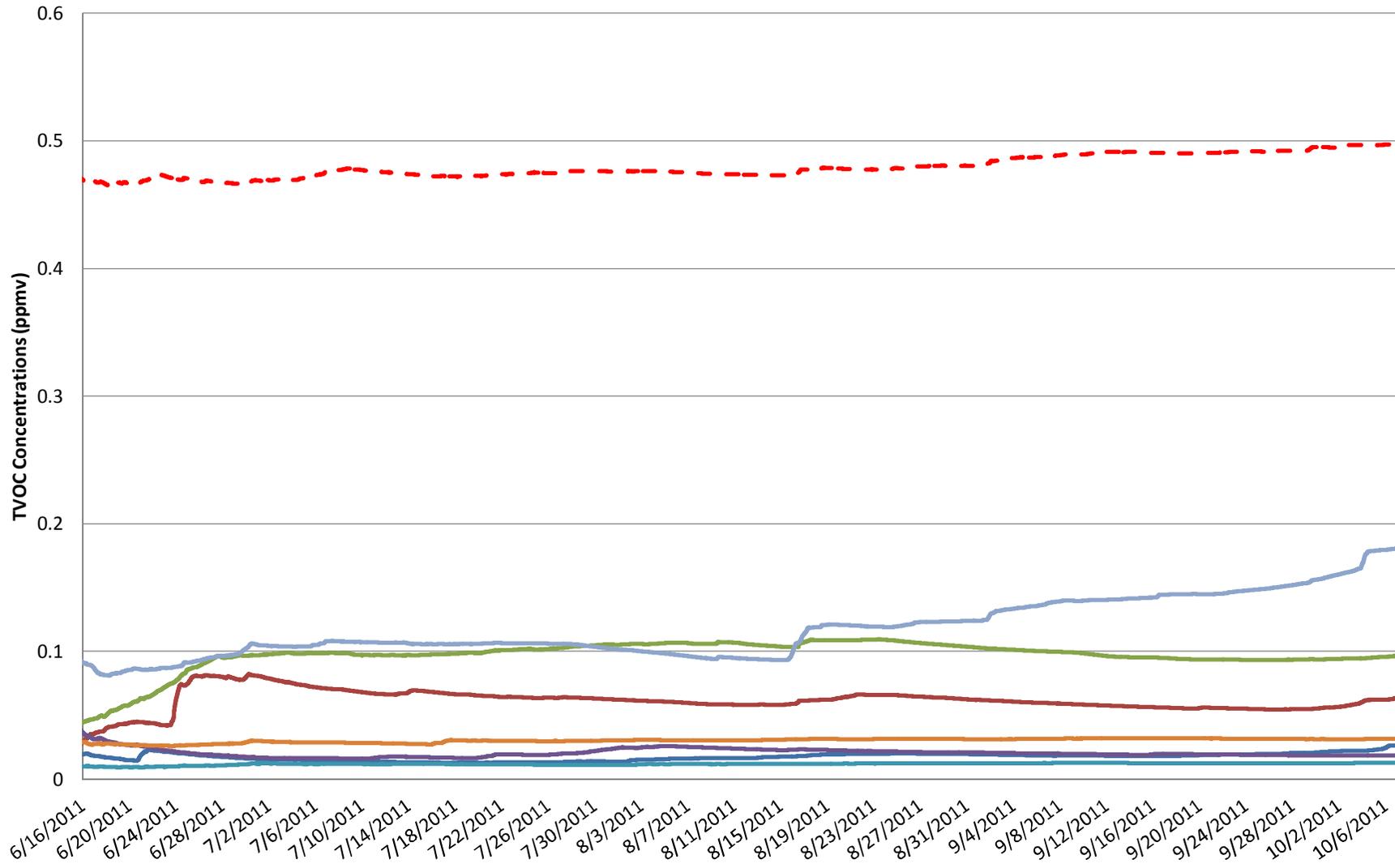
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

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

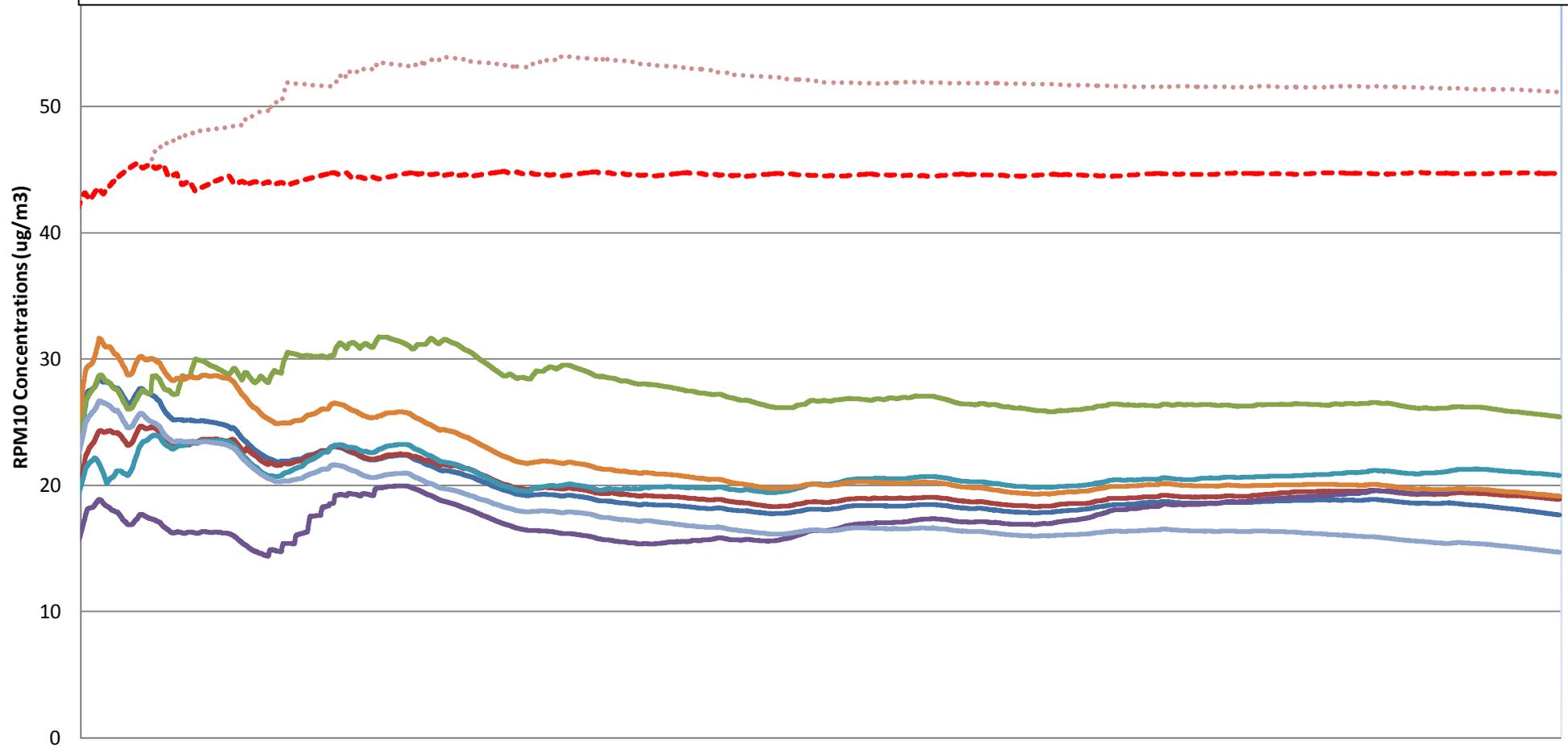
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)



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: 10/6/11 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: 4 12 :30PM-9:30PM: 9)
 Action level for non working hours & weekend=50 (BAAQMD Regulatory value)



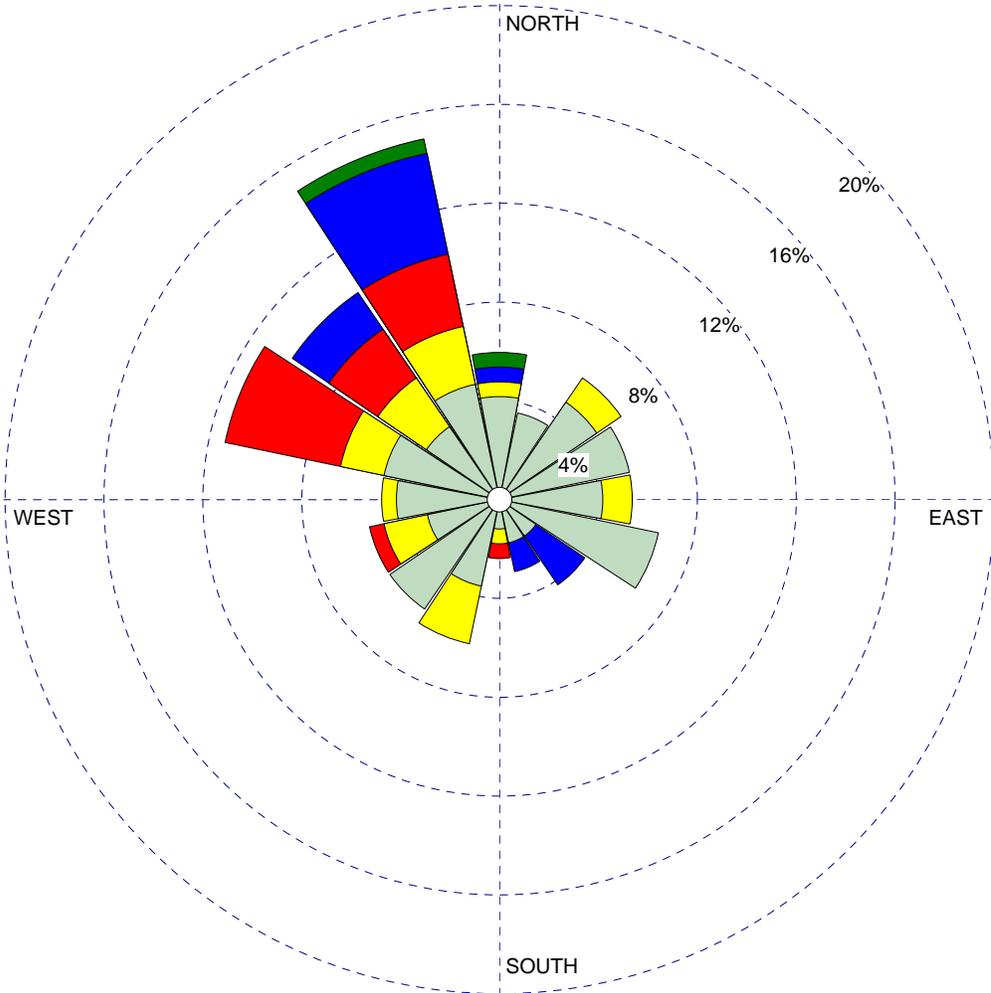
6/16/2011 6/20/2011 6/24/2011 6/28/2011 7/2/2011 7/6/2011 7/10/2011 7/14/2011 7/18/2011 7/22/2011 7/26/2011 7/30/2011 8/3/2011 8/7/2011 8/11/2011 8/15/2011 8/19/2011 8/23/2011 8/27/2011 8/31/2011 9/4/2011 9/8/2011 9/12/2011 9/16/2011 9/20/2011 9/24/2011 9/28/2011 10/2/2011 10/6/2011

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: 0.00%

COMMENTS:

DATA PERIOD:

**Start Date: 10/31/2011 - 00:00
End Date: 11/6/2011 - 23:00**

COMPANY NAME:

MODELER:

CALM WINDS:

0.00%

TOTAL COUNT:

168 hrs.

AVG. WIND SPEED:

1.30 m/s

DATE:

11/7/2011

PROJECT NO.: