Sherwin-Williams Site Cleanup
Emeryville, California

Aug 3, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of July 25 and going through July 29, 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 include:

- Dust and vapor controls (water, odex misters, T-200, Hydroseal and street sweeping)
- Preparation of area next to Horton St. perimeter for shoring installation equipment;
- Excavation of soil and debris (asphalt, concrete) in the third excavation layer (vadose zone material beneath the raised cap);
- Stockpiling and direct-loading of non-hazardous material into trucks for transport to local landfills;
- Stockpiling and loading of rail cars with RCRA, regulated waste for transport to USE in Grandview Idaho;
- Lining of rail cars used for transport of RCRA material;
- Loading and transport of two trucks with RCRA CAT 4 (stabilization treatment) to USE in Grandview Idaho occurred on July 26.
- Construction of an excavation dewatering system and excavation within the saturated zone. Dewatering activities were initiated on July 21.
- A 71 railcar train of California regulated waste was transported on Wednesday July 20 to ECDC landfill in East Carbon, Utah.
- A street sweeper was used to control dust due to truck traffic on the surrounding streets.
- Cultural resources monitoring was performed by qualified archeologists
- Sampling of stockpiled material occurred during the week.

Air Monitoring and Sampling

- Daily calculation of misting delta during morning and afternoon, setting of daily action levels based on background conditions and material being excavated.
- Daily calibration of seven AMS locations and sampling and analysis of VOCs.
- Daily perimeter air monitoring at seven AMS locations for RPM10 and TVOCs.
- Three hour gap of data at AMS #7 (predominantly upwind location) occurred on Monday July 25 due to power connection. Power was restored following discovery.

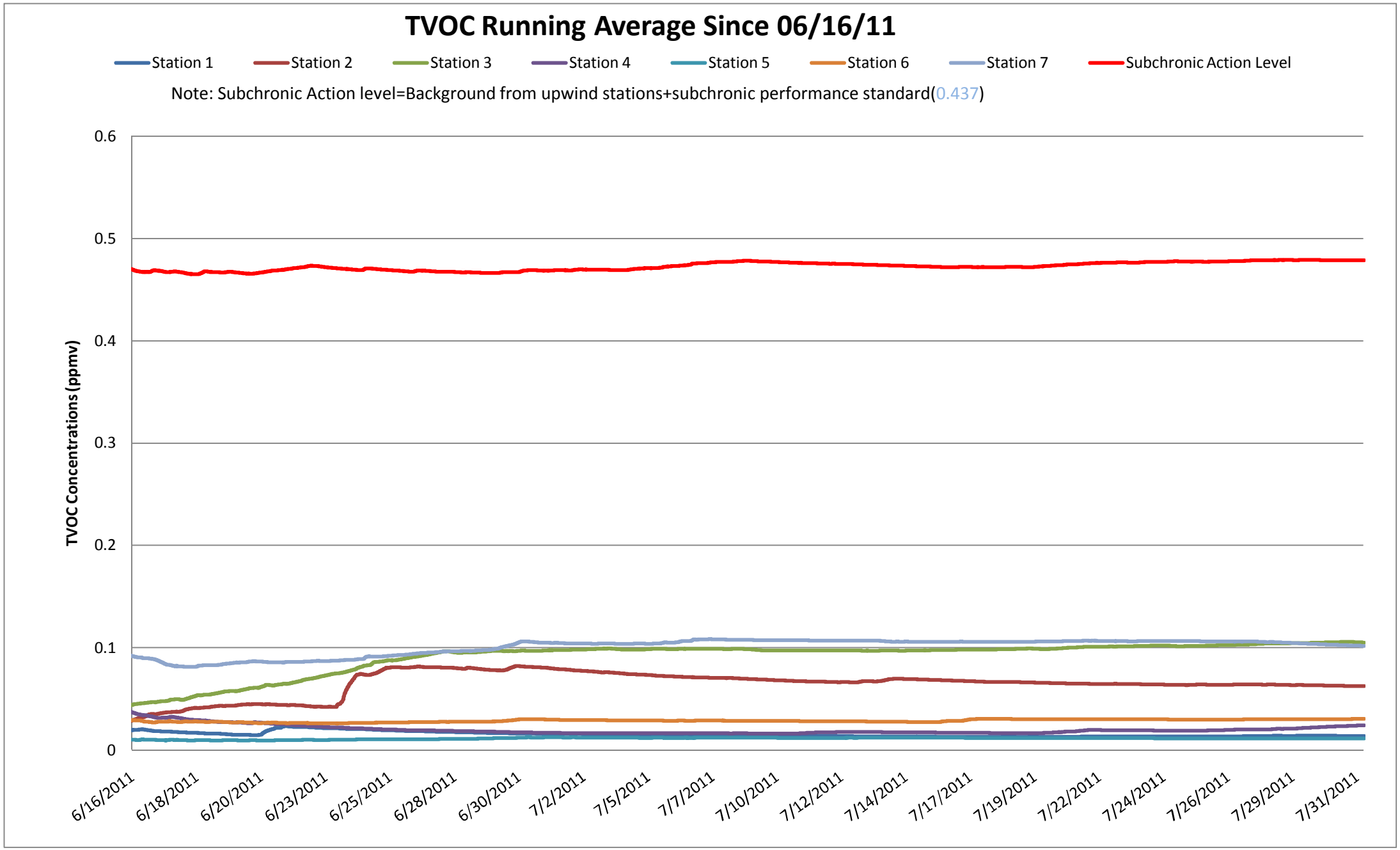
- AMS #2 and #3 registered TVOC spikes between 10:00 and 11:30 AM on July 26. Field personnel observed odors. Monitored PID readings of 1.2ppm were observed. Levels did not exceed acute or subchronic action levels in daily air samples.

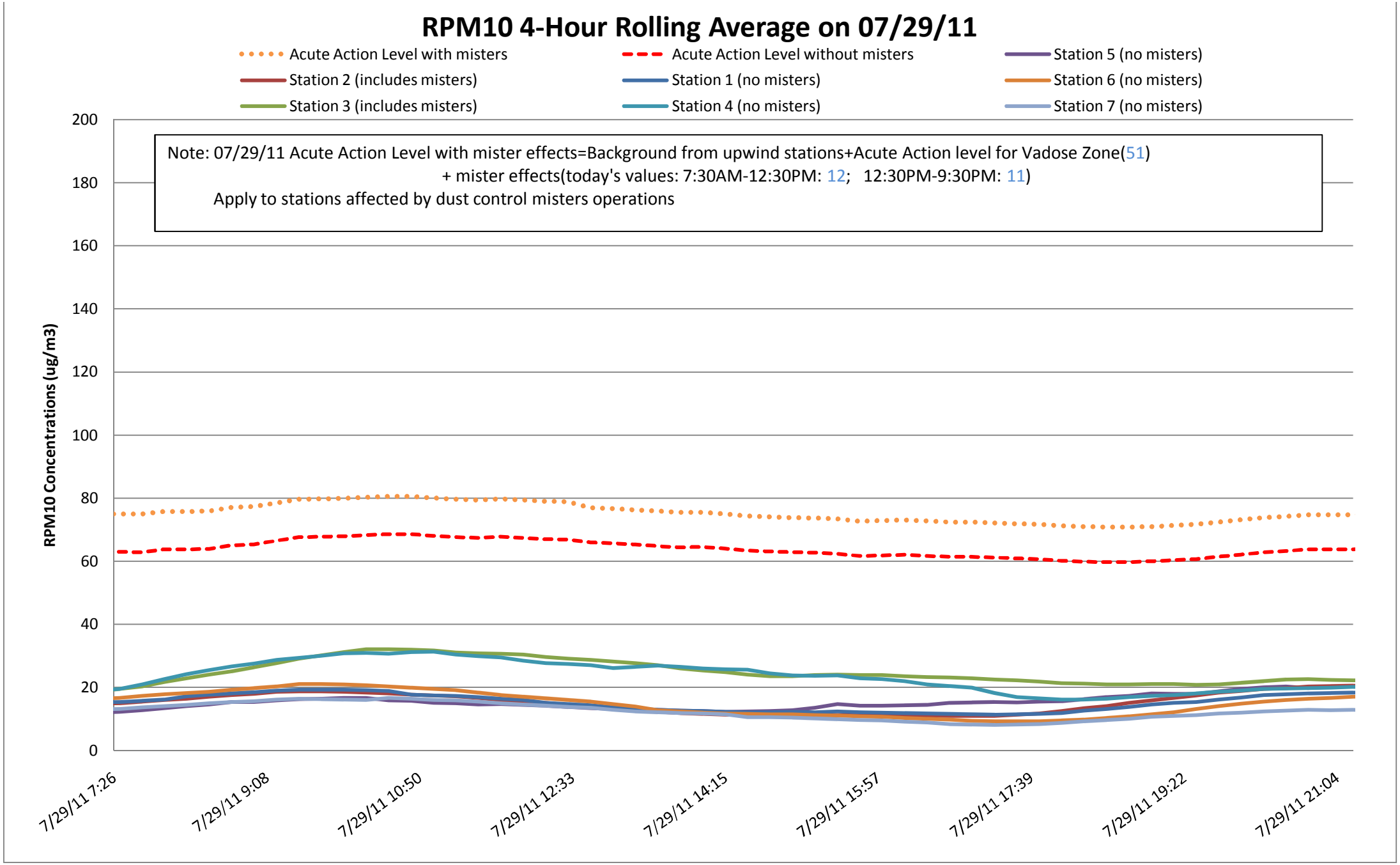
Perimeter air monitoring occurred continuously through the week.

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, 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. Running averages for TVOC and RPM10 since the start of the project continue to be below their respective action levels at all AMSs.

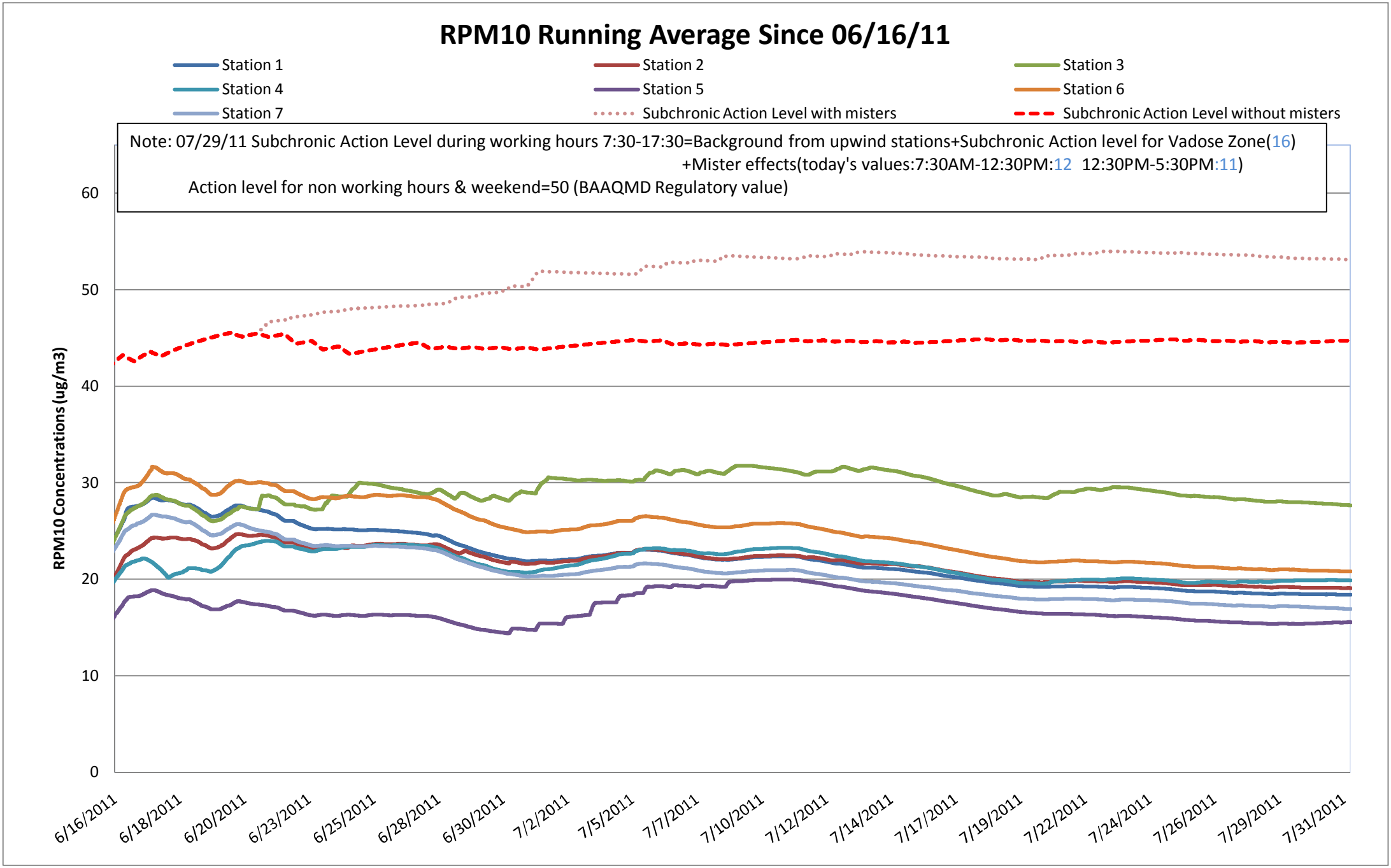
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

Camp Dresser & McKee Inc.

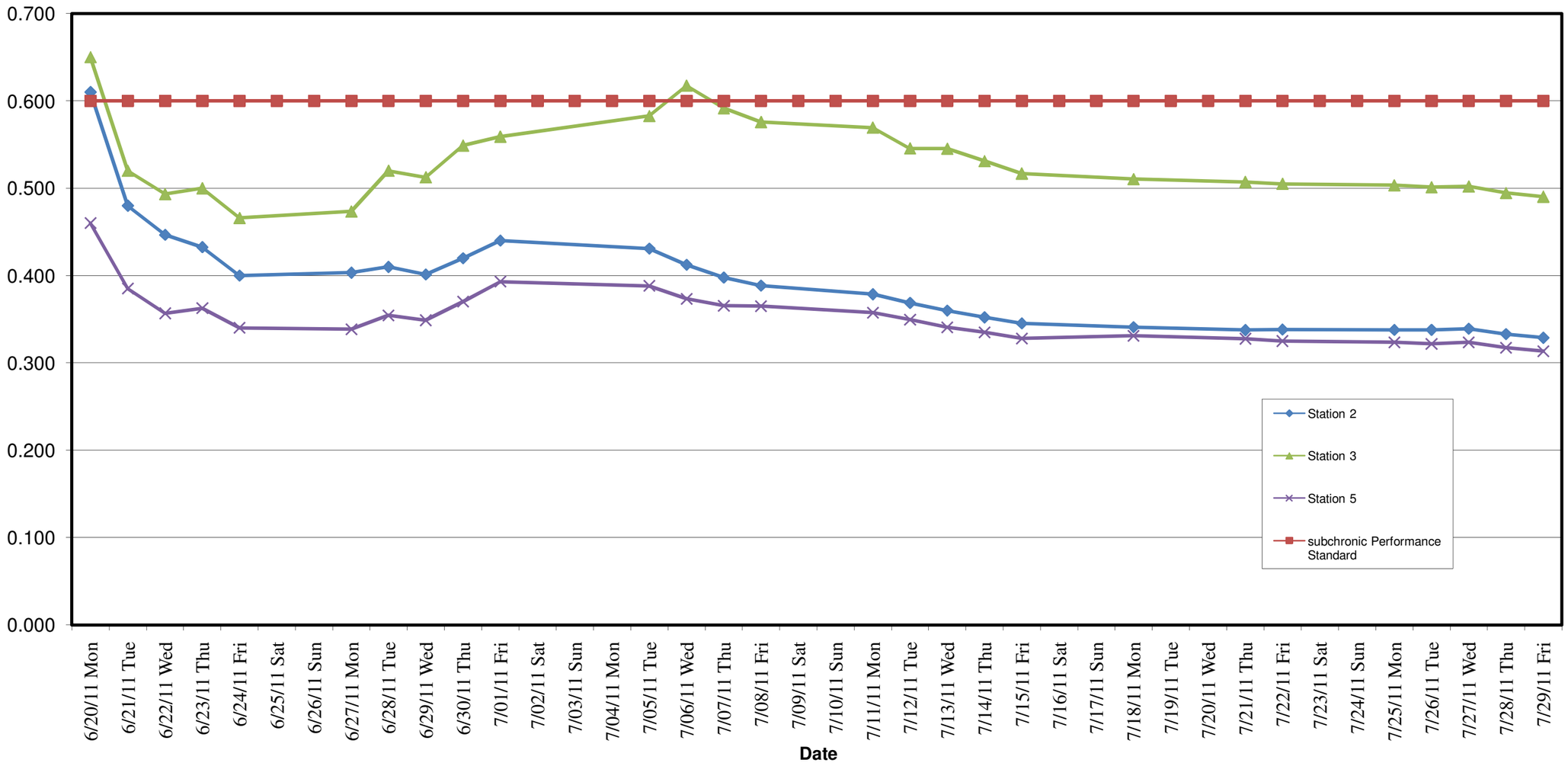

TVOC Running Average Since 06/16/11
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
Subchronic Action Level
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)
TVOC Concentrations (ppmv)
0.6
0.5
0.4
0.3
0.2
0.1
0
6/16/2011
6/18/2011
6/20/2011
6/23/2011
6/25/2011
6/28/2011
6/30/2011
7/2/2011
7/5/2011
7/7/2011
7/10/2011
7/12/2011
7/14/2011
7/17/2011
7/19/2011
7/22/2011
7/24/2011
7/26/2011
7/29/2011
7/31/2011


RPM10 4-Hour Rolling Average on 07/29/11
Acute Action Level with misters
Acute Action Level without misters
Station 5 (no misters)
Station 2 (includes misters)
Station 1 (no misters)
Station 6 (no misters)
Station 3 (includes misters)
Station 4 (no misters)
Station 7 (no misters)
Note: 07/29/11 Acute Action Level with mister effects=Background from upwind stations+Acute Action level for Vadose Zone(51)
+ mister effects(today's values: 7:30AM-12:30PM: 12; 12:30PM-9:30PM: 11)
Apply to stations affected by dust control misters operations
RPM10 Concentrations (ug/m3)
200
180
160
140
120
100
80
60
40
20
0
7/29/11 7:26
7/29/11 9:08
7/29/11 10:50
7/29/11 12:33
7/29/11 14:15
7/29/11 15:57
7/29/11 17:39
7/29/11 19:22
7/29/11 21:04

RPM10 Running Average Since 06/16/11

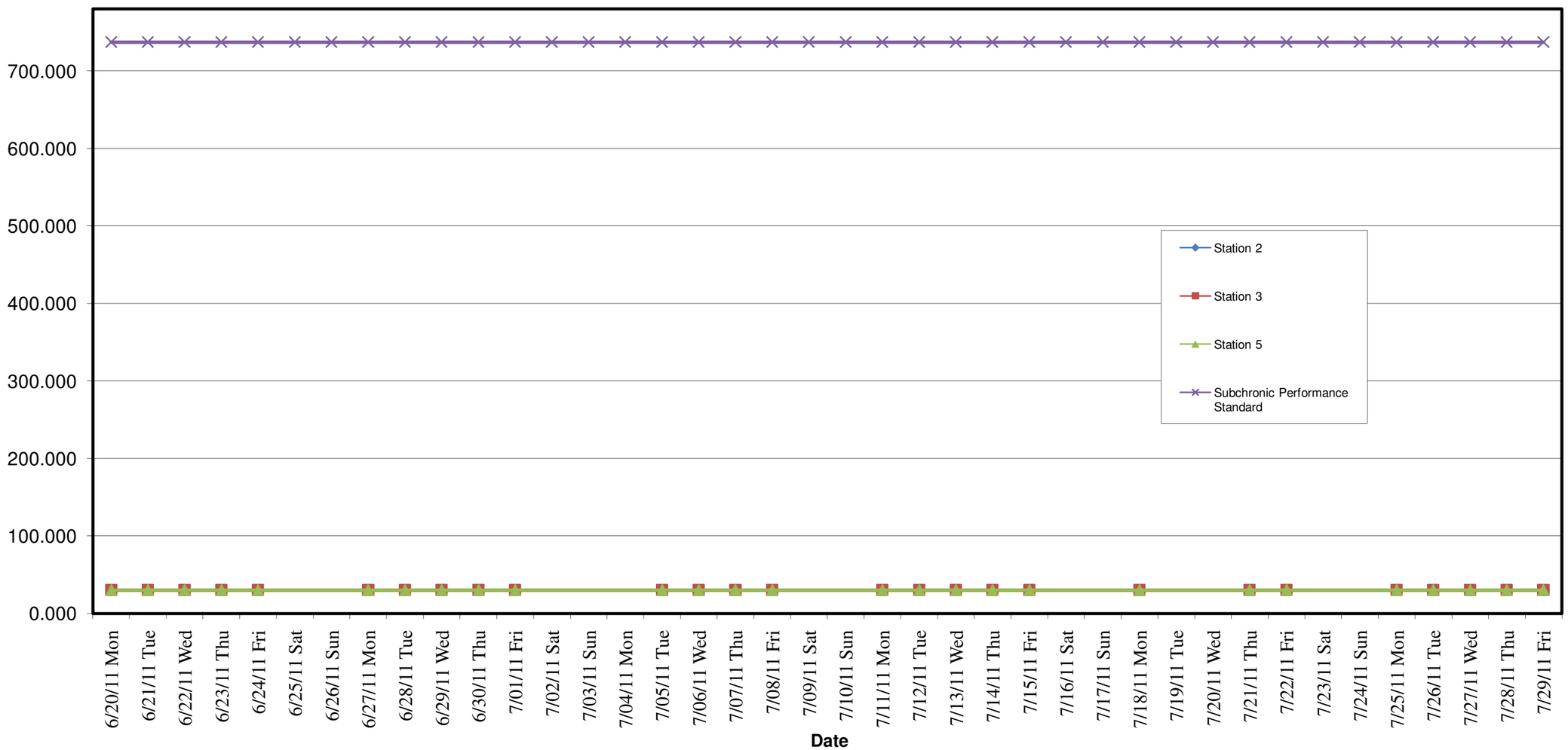


Airborne Benzene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From-06/20-07/29/2011
Summa Canisters Analyzed by TO15



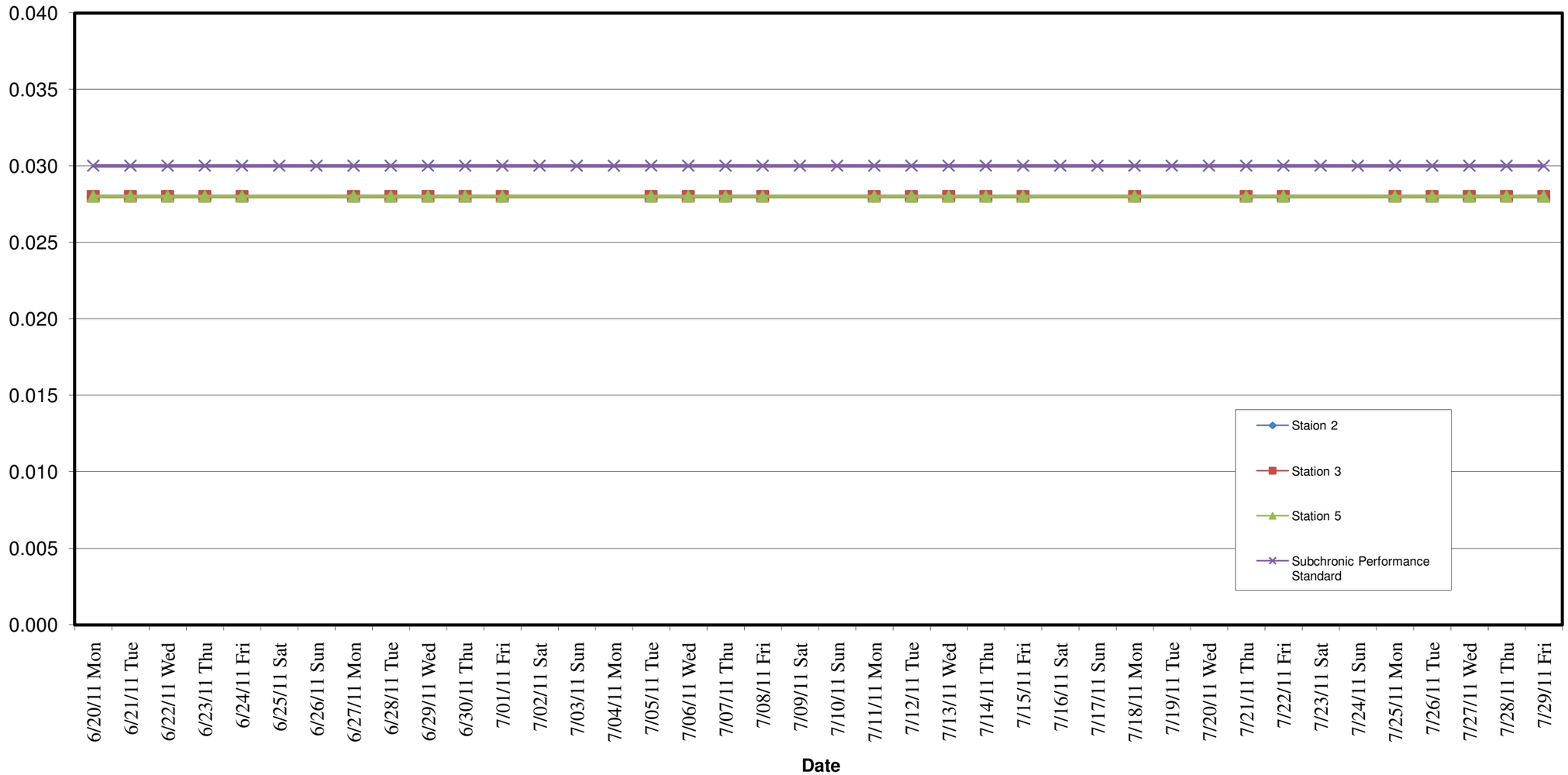
Note: Detection values reflect the background level

Airborne MEK Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville -From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



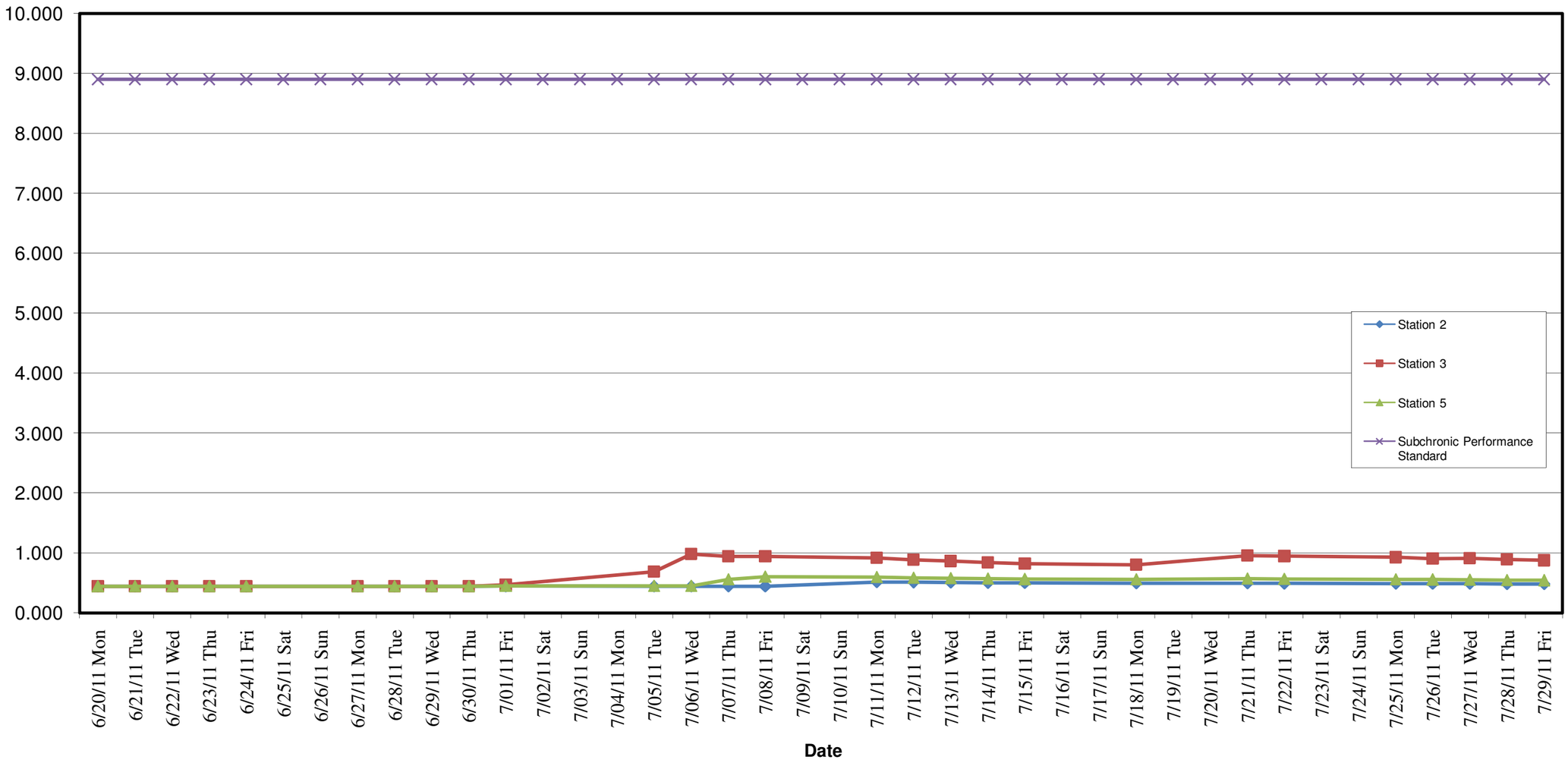
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne 1,2-Dichloroethane Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



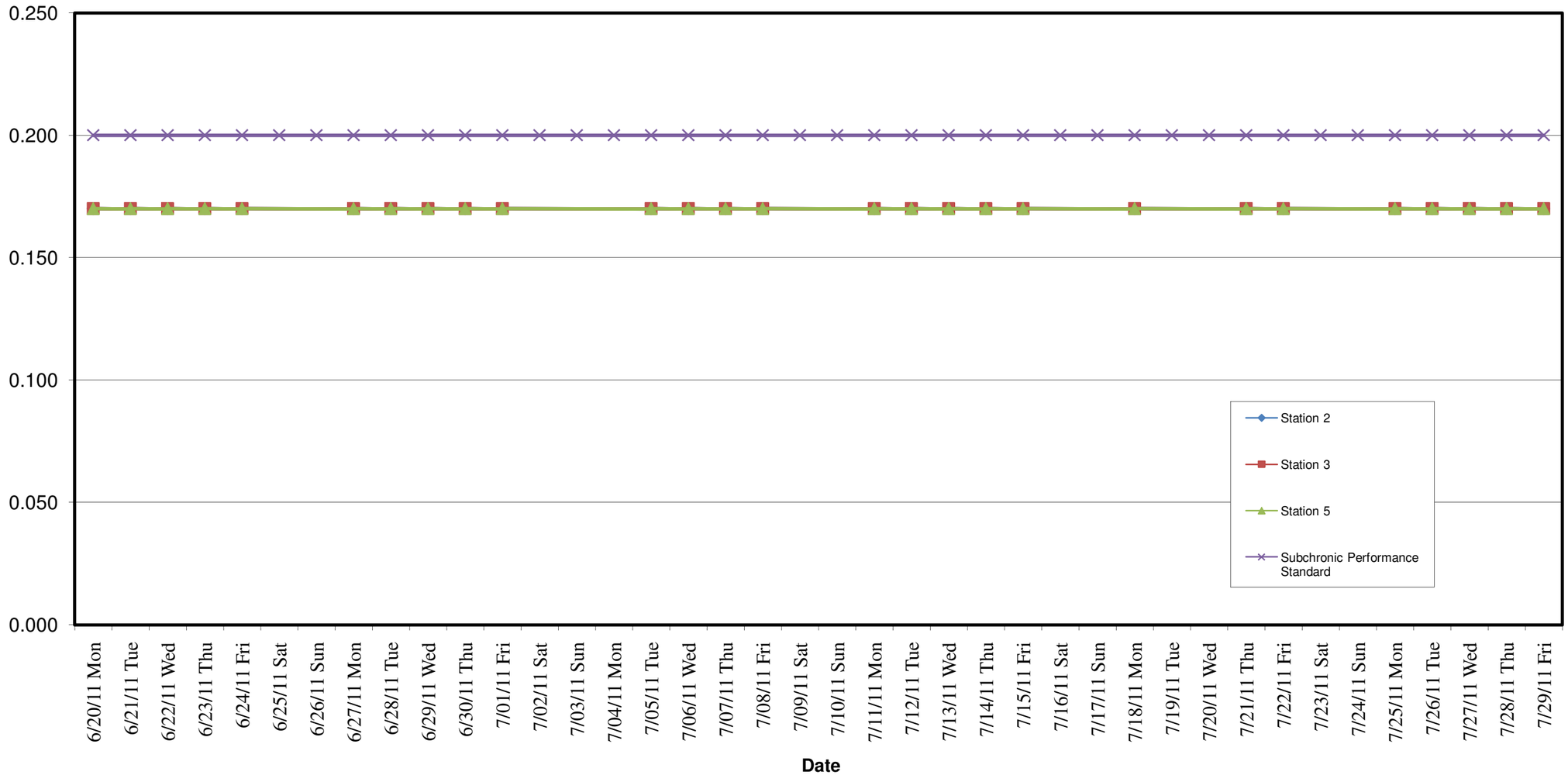
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne Ethyl Benzene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



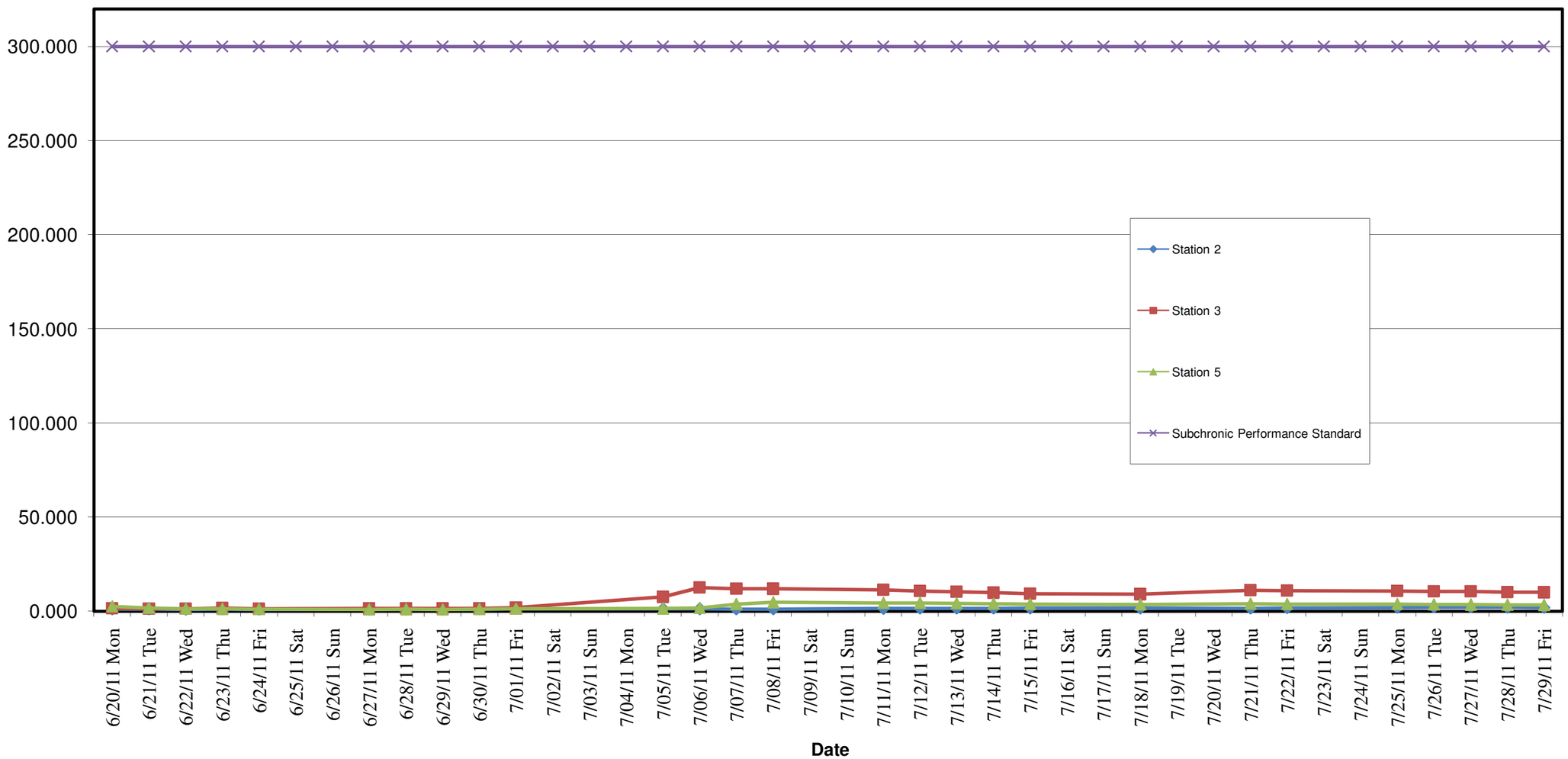
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne Tetrachloroethane Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



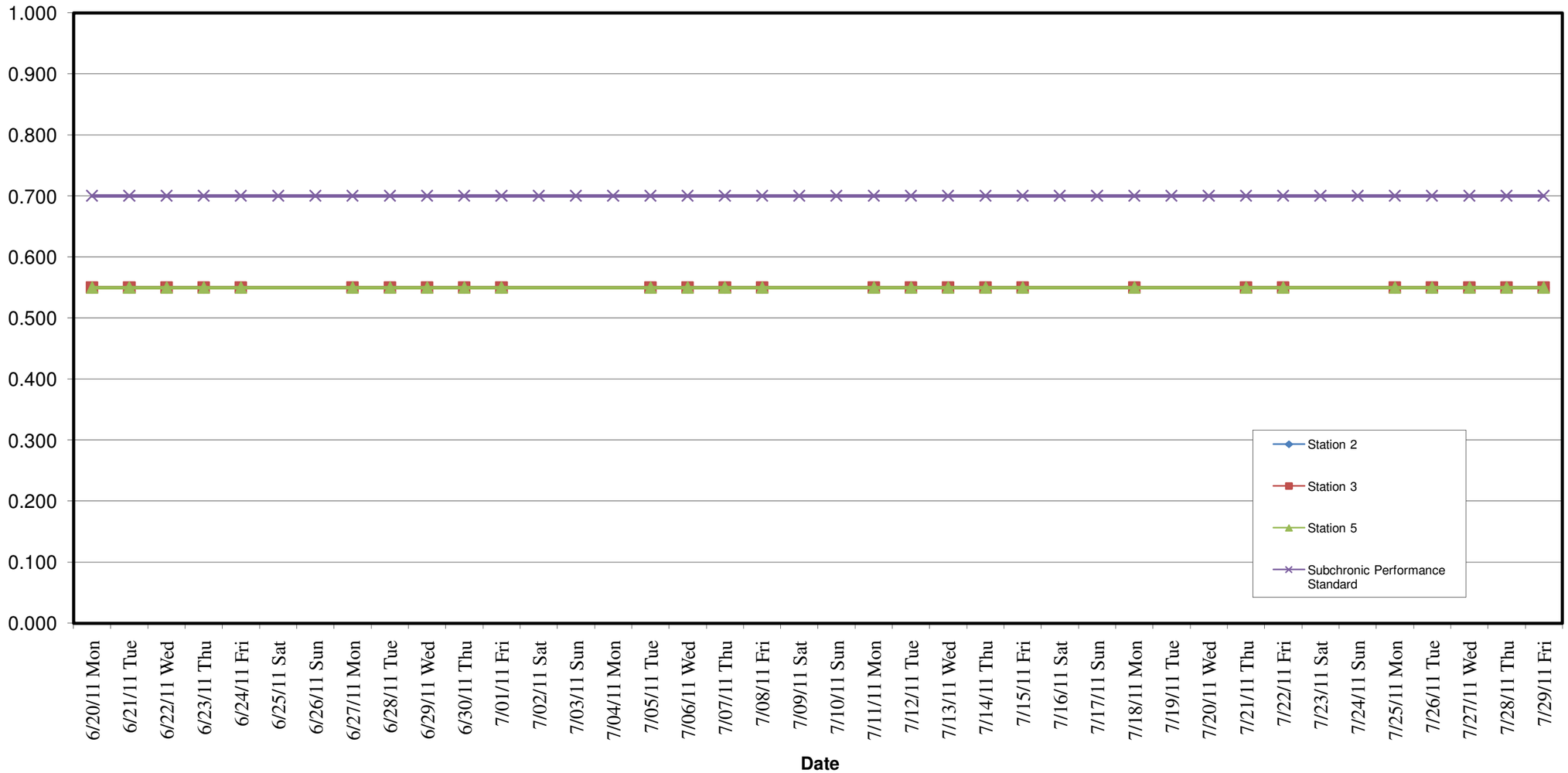
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne Toluene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



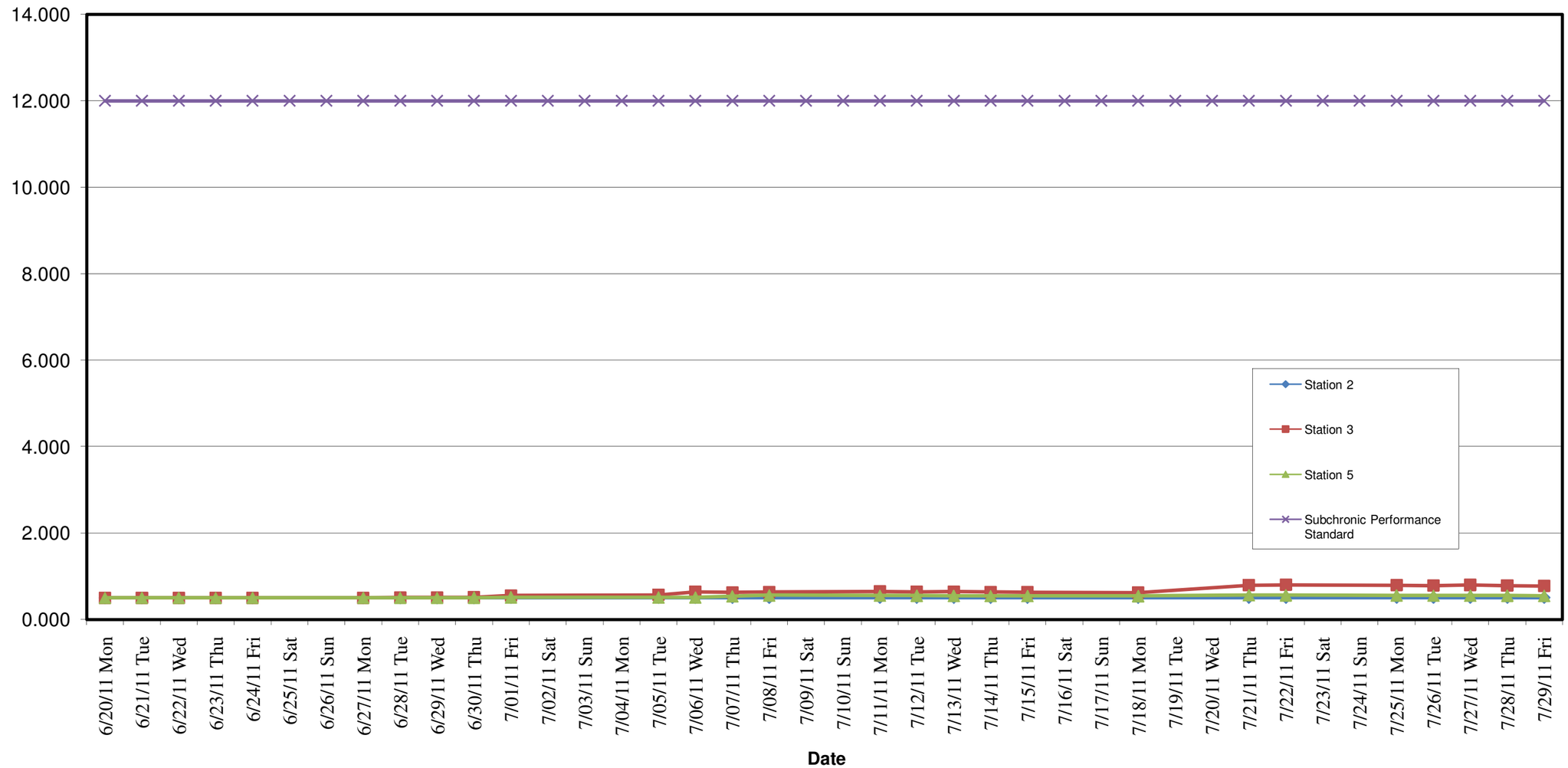
Notes:
a. Detection values reflect the background level

Airborne Trichloroethene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



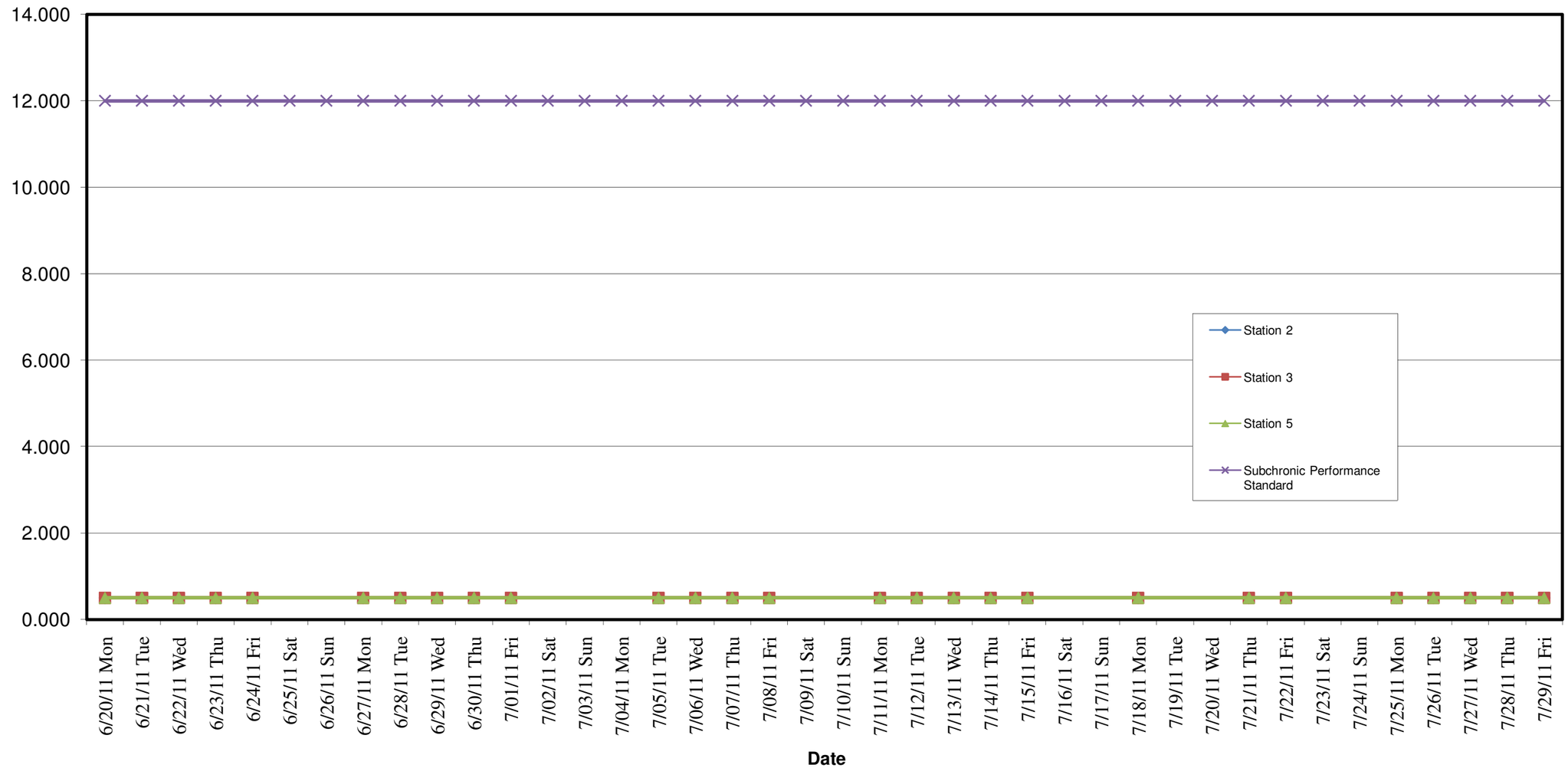
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne 1,2,4-trimethyl benzene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



Notes:
a. non-detectable values, are plotted using detection limit values

Airborne 1,3,5-trimethyl benzene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



Notes:
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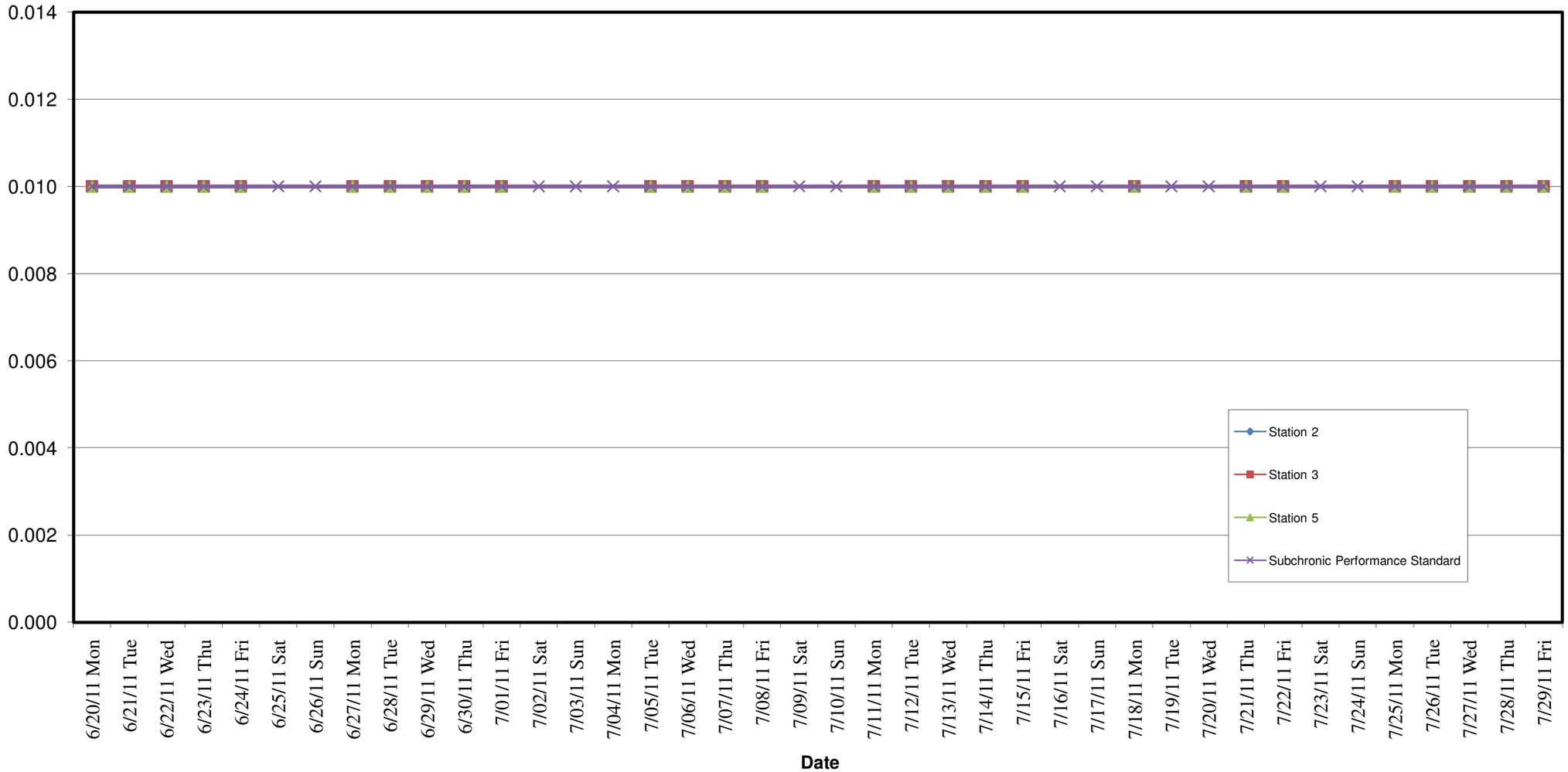
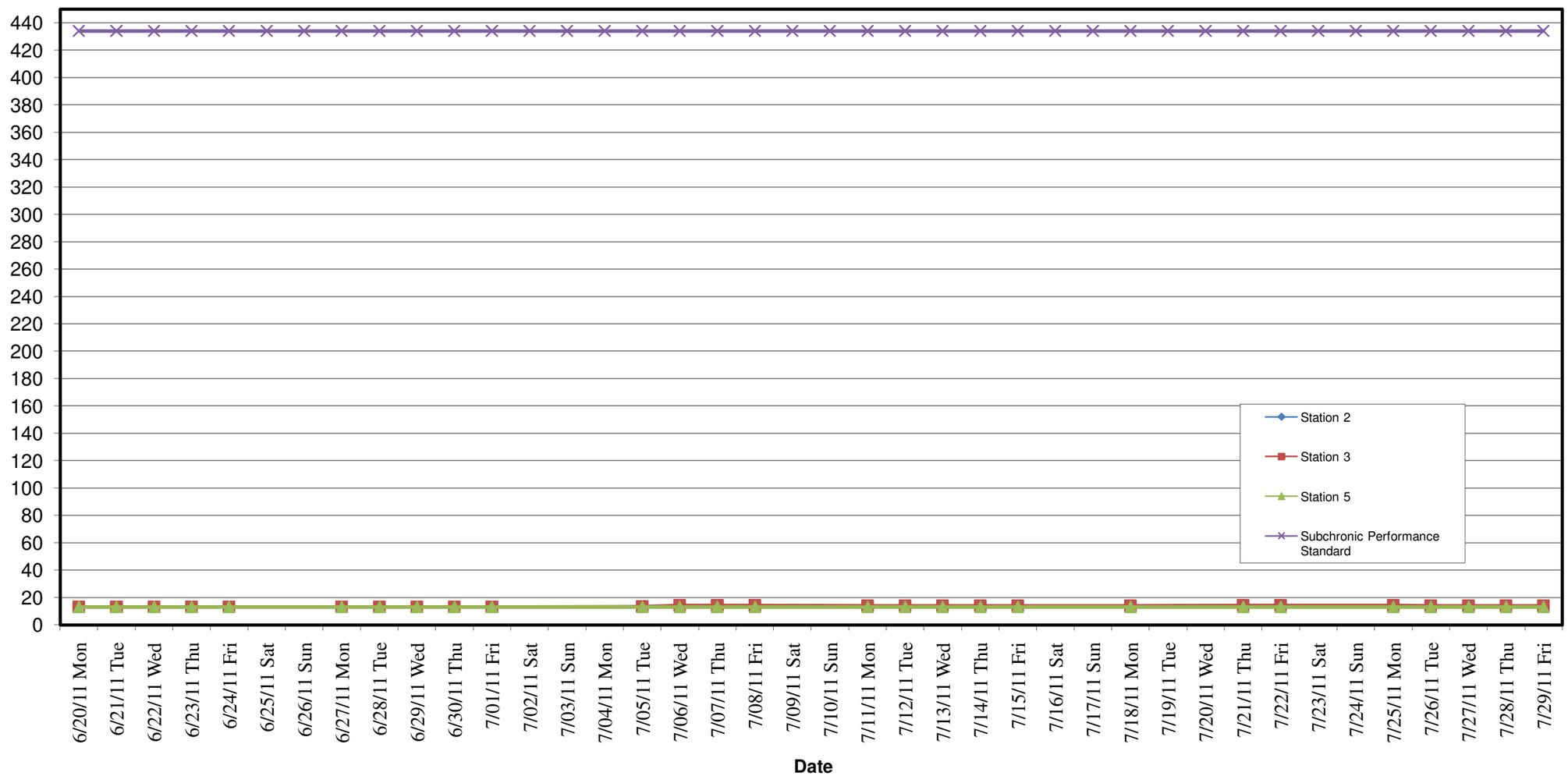
Airborne Vinyl Chloride Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



Notes:
a. non-detectable values, are plotted using detection limit values

Airborne Xylene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/29/2011
Summa Canisters Analyzed by TO15



Notes:
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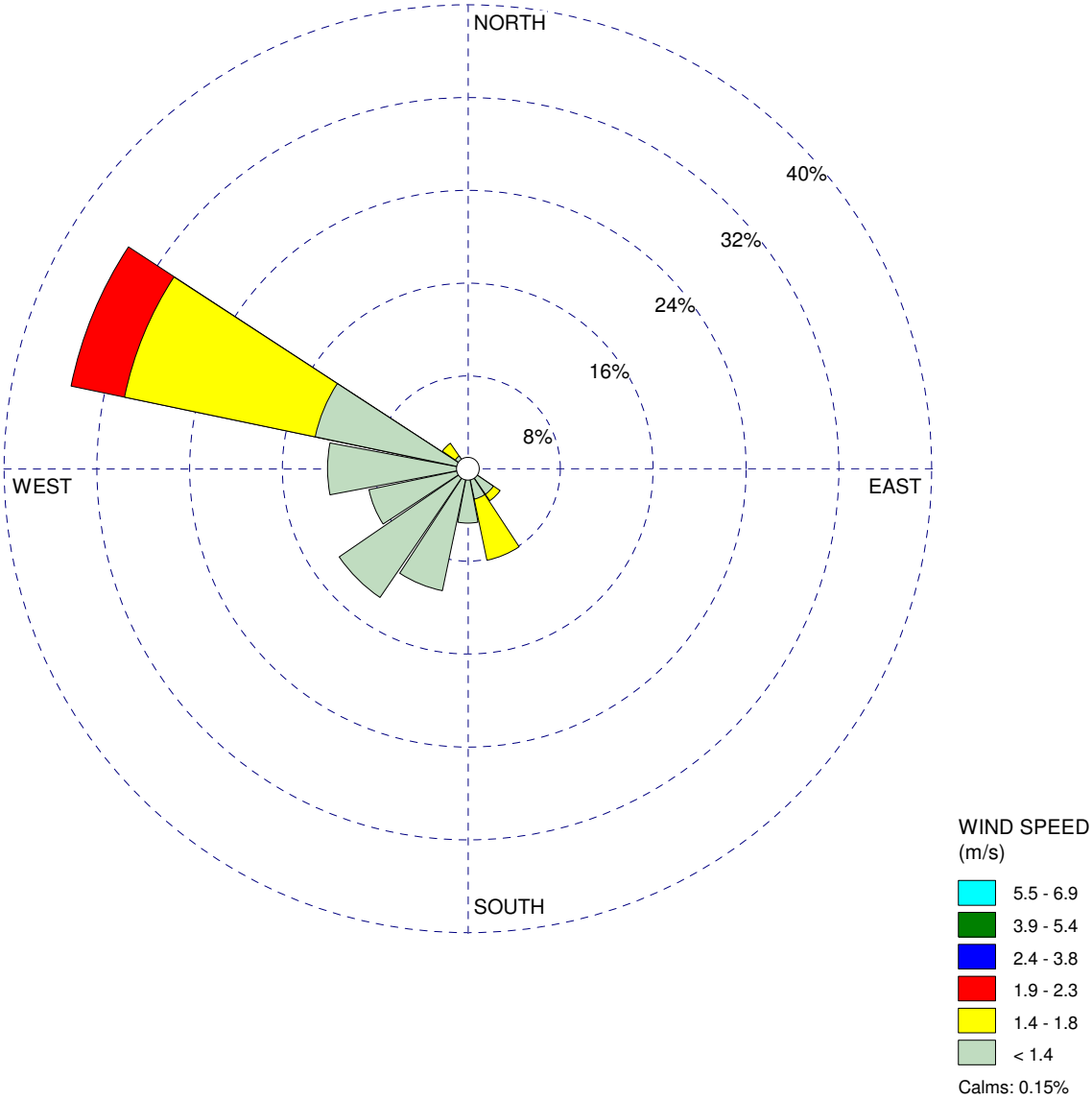
WIND ROSE PLOT:

Station #SW

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 7/25/2011 - 01:00 **End Date: 7/31/2011 - 23:00**	MODELER:	
	CALM WINDS: **0.15%**	TOTAL COUNT: **149 hrs.**	
	AVG. WIND SPEED: **1.72 m/s**	DATE: **8/2/2011**	PROJECT NO.:

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