SCA Environmental, Inc.

DAILY REPORT

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PROJECT NAME	**Sherwin-Wiilams, Emeryville, CA**	**Sent to:**	**Name**
SCA PRJ #	B10036	SCA	Chuck Siu
Zone: Main	Activities: Air Sampling	CDM	D Cline
Inspected by: JY	Date: Tue 6/21/11		
Reviewed by: CS	Date: Tue 6/28/11		

Miscellaneous Info

No. Workers On Site (est.)

Work In Progress: Shift of

Air sampling

Fenceline Air Sampling Results	**Station 1**	**Station 2**	**Station 3**	**Station 4**	**Station 5**	**Station 6**	**Station 7**		**Standards (subchronic)**	**Standards (acute)**
Arsenic(respirable) AM µg/m^3	NA	<0.012	<0.012	NA	<0.012	NA	NA		0.015	0.200
Arsenic(respirable) PM µg/m^3	NA	<0.012	<0.012	NA	<0.012	NA	NA		0.015	0.200
Arsenic(respirable) nite µg/m^3	NA	<0.014	<0.013	NA	<0.013	NA	NA		0.015	0.200
Lead (respirable) µg/m^3	NA	0.012	<0.012	NA	<0.012	NA	NA		0.15	N/A
Benzene µg/m^3	NA	0.35	0.39	NA	0.31	NA	NA		0.6	29
MEK µg/m^3	NA	<30	<30	NA	<30	NA	NA		737	45331
1,2-dichloroethane µg/m^3	NA	<0.03	<0.03	NA	<0.03	NA	NA		0.03	9986
ethylbenzene µg/m^3	NA	<0.44	<0.44	NA	<0.44	NA	NA		8.9	737
tetrachlorethene µg/m^3	NA	<0.17	<0.17	NA	<0.17	NA	NA		0.2	1358
toluene µg/m^3	NA	0.82	1.0	NA	0.69	NA	NA		300	603
trichloroethene µg/m^3	NA	<0.55	<0.55	NA	<0.55	NA	NA		0.7	7309
1,2,4-trimethylbenzene µg/m^3	NA	<0.5	<0.5	NA	<0.5	NA	NA		12	11798
1,3,5-trimethylbenzene µg/m^3	NA	<0.5	<0.5	NA	<0.5	NA	NA		12	11798
vinyl chloride µg/m^3	NA	<0.01	<0.01	NA	<0.01	NA	NA		0.01	647
xylenes µg/m^3	NA	<13	<13	NA	<13	NA	NA		434	1302
								Background levels	Action Levels (subchronic)	Action Levels (acute)
Resp Dust(max 4-hr rolling avg, 7:30-12:30) µg/m^3	24.29	30.05	98.68	31.32	15.79	34.27	21.08	10.56	44.16	45.36
Resp Dust(max 4-hr rolling avg, 12:30-17:30) µg/m^3	21.03	21.30	30.17	26.11	13.57	25.39	21.31	15.63	49.23	50.43
Resp Dust(max 4hr rolling avg, nite 17:30-7:30 next day) µg/m^3	22.03	24.24	23.66	25.60	19.72	31.47	22.91	19.79	69.79	NA
Total VOCs (24-hr avg, 7:30-7:30 next day) ppmv	0.034	0.035	0.107	0.010	0.013	0.023	0.091	0.010	0.535	20.950

	Station 1		**Station 2**		**Station 3**		**Station 4**		**Station 5**		**Station 6**		**Station 7**	
% of Standards or Action Levels	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**
Arsenic(respirable) AM %	NA	NA	<80%	6%	<80%	6%	NA	NA	<80%	6%	NA	NA	NA	NA
Arsenic(respirable) PM %	NA	NA	<80%	6%	<80%	6%	NA	NA	<80%	6%	NA	NA	NA	NA
Arsenic(respirable) nite %	NA	NA	<93.3%	7%	<86.7%	7%	NA	NA	<86.7%	7%	NA	NA	NA	NA
Lead (respirable) %	NA	NA	8%	N/A	<8%	N/A	NA	NA	<8%	N/A	NA	NA	NA	NA
Benzene %	NA	NA	58%	1%	65%	1%	NA	NA	52%	1%	NA	NA	NA	NA
MEK %	NA	NA	<4.07%	<0.066%	<4.07%	<0.066%	NA	NA	<4.07%	<0.066%	NA	NA	NA	NA
1,2-dichloroethane %	NA	NA	<93.33%	<0.0002%	<93.33%	<0.0002%	NA	NA	<93.33%	<0.0002%	NA	NA	NA	NA
Ethylbenzene %	NA	NA	<4.94%	<0.060%	<4.94%	<0.060%	NA	NA	<4.94%	<0.060%	NA	NA	NA	NA
Tetrachlorethene %	NA	NA	<85%	<0.013%	<85%	<0.013%	NA	NA	<85%	<0.013%	NA	NA	NA	NA
Toluene %	NA	NA	0.3%	0.1%	0.3%	0.2%	NA	NA	0.2%	0.1%	NA	NA	NA	NA
Trichloroethene %	NA	NA	<78.57%	<0.008%	<78.57%	<0.008%	NA	NA	<78.57%	<0.008%	NA	NA	NA	NA
1,2,4-trimethylbenzene %	NA	NA	<4.17%	<0.004%	<4.17%	<0.004%	NA	NA	<4.17%	<0.004%	NA	NA	NA	NA
1,3,5-trimethylbenzene %	NA	NA	<4.17%	<0.004%	<4.17%	<0.004%	NA	NA	<4.17%	<0.004%	NA	NA	NA	NA
vinyl chloride %	NA	NA	<100%	<0.002%	<100%	<0.002%	NA	NA	<100%	<0.002%	NA	NA	NA	NA
Xylenes %	NA	NA	<3.00%	<0.998%	<3.00%	<0.998%	NA	NA	<3.00%	<0.998%	NA	NA	NA	NA
Resp Dust(max 4-hr rolling avg, 7:30-12:30) µg/m^3 %	55%	54%	68%	66%	**223%**	**218%**	71%	69%	36%	35%	78%	76%	48%	46%
Resp Dust(max 4-hr rolling avg, 12:30-17:30) µg/m^3 %	43%	42%	43%	42%	61%	60%	53%	52%	28%	27%	52%	50%	43%	42%
Resp Dust(max 4hr rolling avg, nite 17:30-7:30 next day) µg/m^3 %	0.316	NA	0.347	NA	0.339	NA	0.367	NA	0.283	NA	0.451	NA	0.328	NA
Total VOCs (24-hr avg, 7:30-7:30 next day) ppmv %	0.064	0.002	0.065	0.002	0.200	0.005	0.019	0.000	0.024	0.001	0.043	0.001	0.170	0.004

Comments/Detailed Description of Conditions:

Envirocon had not yet broken through the cap and no raised cap materials were excavated. Wetting & misting the cap near station 3.

***RPM10 Action levels during working hour (7:30-17:30)=background levels for particular period+action levels for Vadose Zone+effect from dust control misting system (value was provided by CDM, today's value 33)**
***RPM10 Action levels during non working hour (17:30-7:30 next day)=background levels for particular period+50(BAAQMD regulatory value)**
Background levels =TWA of all the upwind stations 15 min avg data in that particular period
Upwind stations are obtained from weather stations data and will be determined every 15 mins

	units	Subchronic Action Level	Acute Action Level
RPM10*			
Raised Cap Material	ug/m3	0.6	1.8
Vadose Zone Soils	ug/m3	16	51
Soils for Shoring Installation	ug/m3	51	162
Saturated Soils	ug/m3	17	53
TVOC**	ppmv	0.44	20.85

Note:
*RPM10 action levels are based on arsenic performance standard and arsenic concentration of materials anticipated to be encountered during the specified activity.
**TVOC action levels are based on the action levels for individual VOC constituents as presented in the PAMP. The individual action levels for each VOCs are converted to ppmv unit and then summed and assigned as the action levels for TVOC

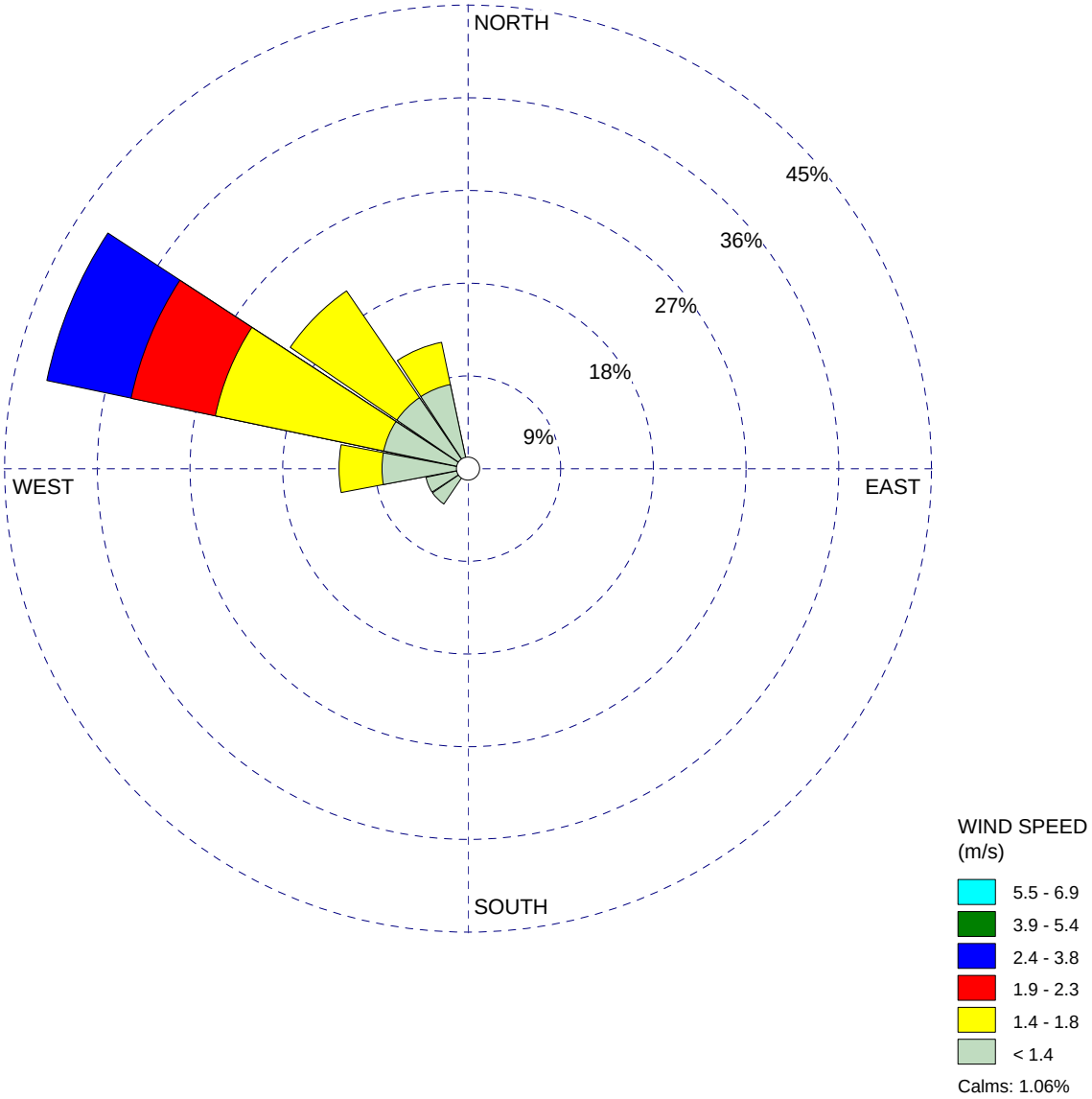
Subchronic action level plus the background RPM10 or TVOC levels constitutes the yellow alarm for slow down and/or increased vapor/dust control.
Acute action level plus the background RPM10 or TVOC levels constitutes the red alarm for stop work.

WIND ROSE PLOT:

Station #SW

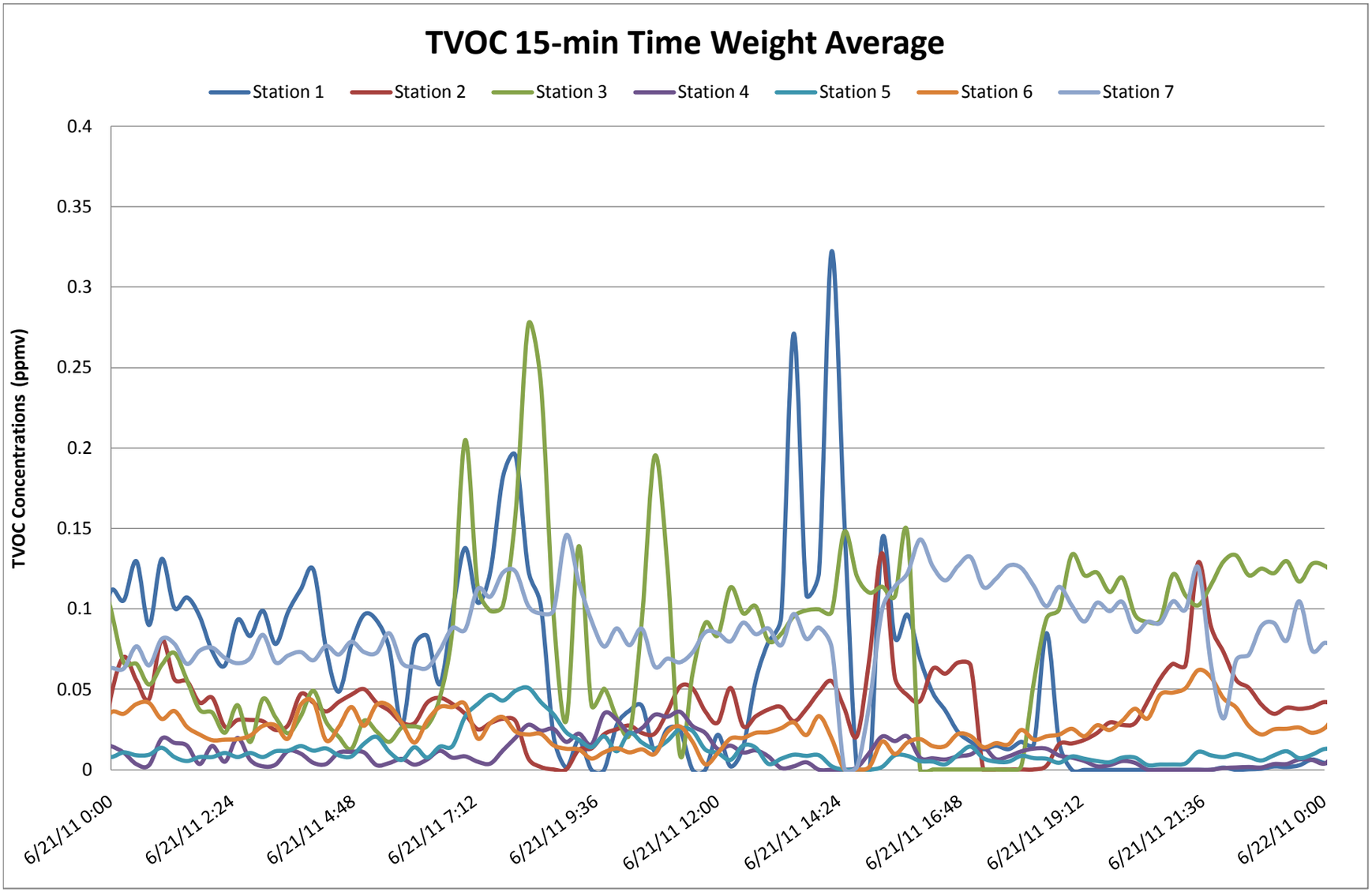
DISPLAY:

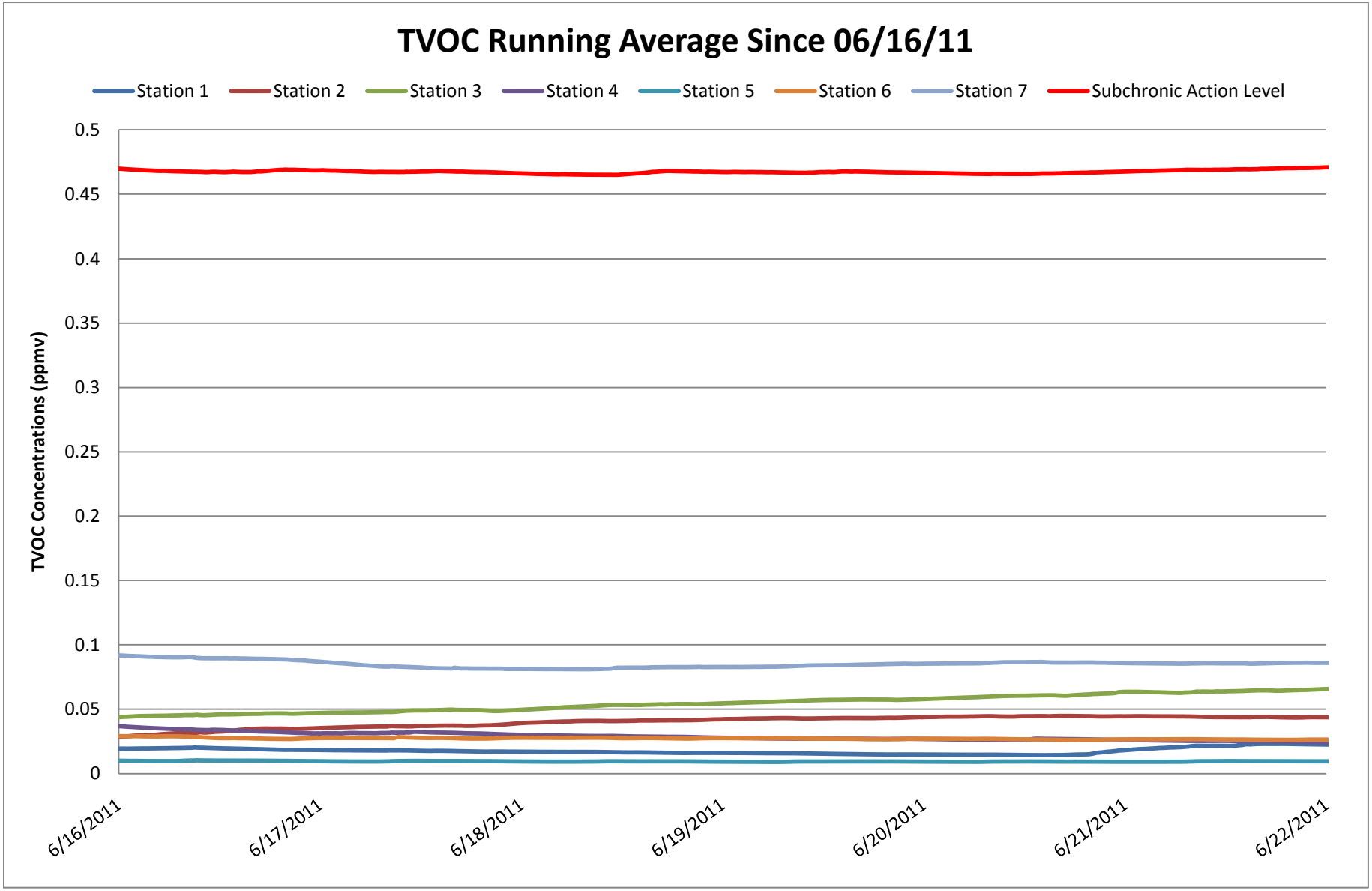
Wind Speed
Direction (blowing from)

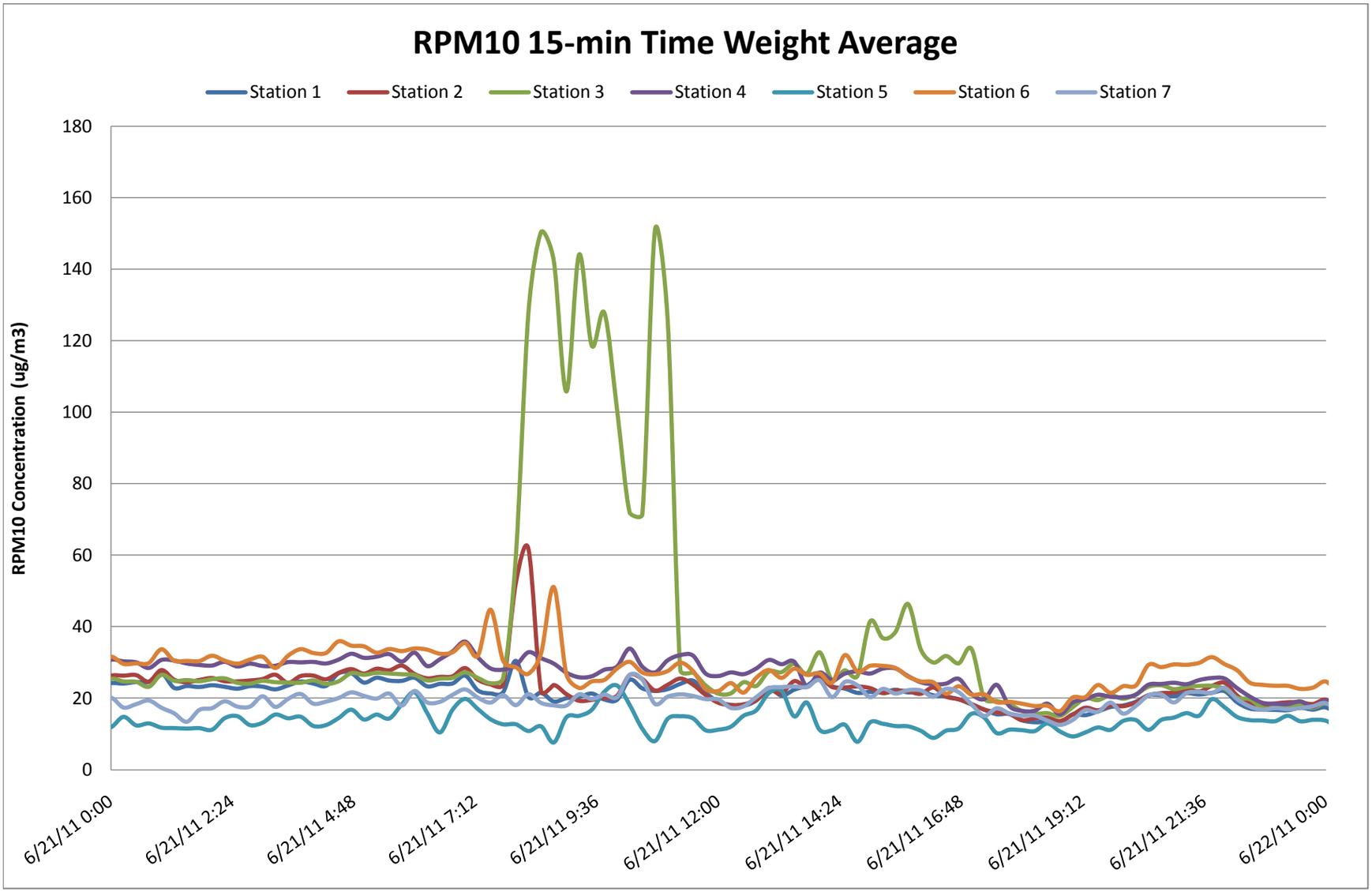


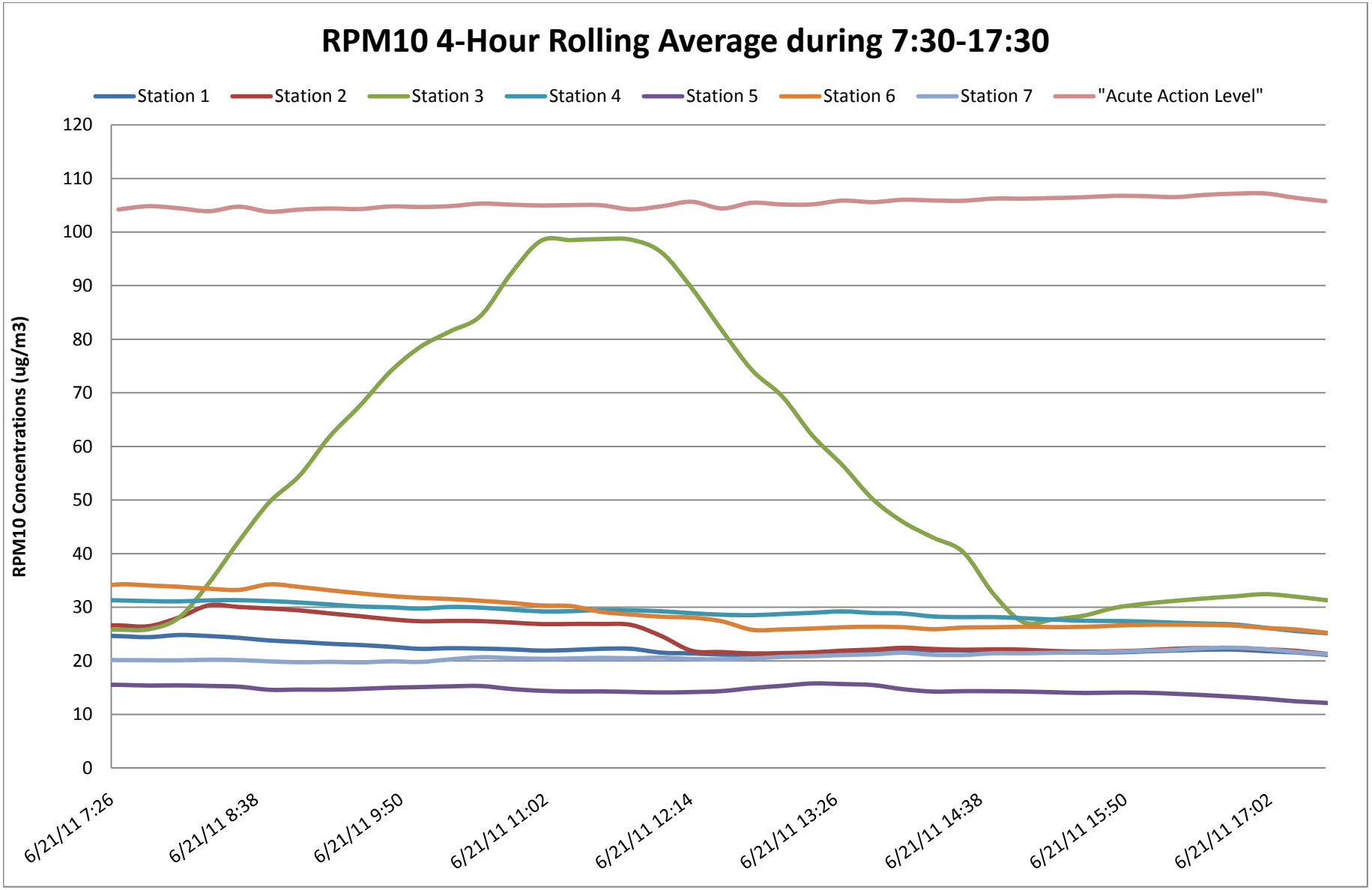
COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 6/21/2011 - 00:00 **End Date: 6/21/2011 - 23:00**	**CDM & SCA**	
		MODELER:	
	CALM WINDS:	TOTAL COUNT:	
	1.06%	**24 hrs.**	
	AVG. WIND SPEED:	DATE:	PROJECT NO.:
	1.49 m/s	**6/22/2011**	

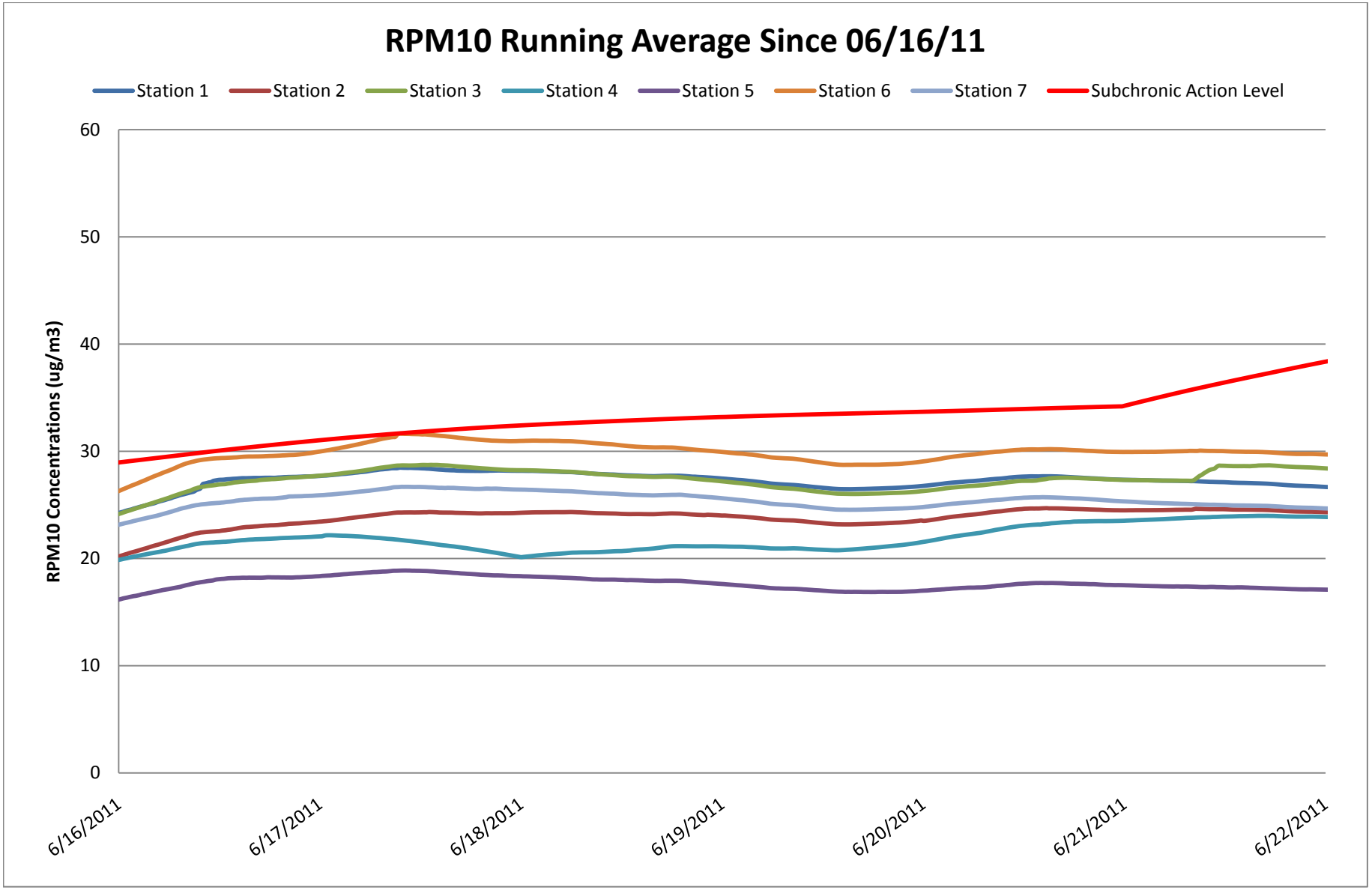
WRPLOT View - Lakes Environmental Software


TVOC 15-min Time Weight Average
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
TVOC Concentrations (ppmv)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/21/11 0:00
6/21/11 2:24
6/21/11 4:48
6/21/11 7:12
6/21/11 9:36
6/21/11 12:00
6/21/11 14:24
6/21/11 16:48
6/21/11 19:12
6/21/11 21:36
6/22/11 0:00


TVOC Running Average Since 06/16/11
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
Subchronic Action Level
TVOC Concentrations (ppmv)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/16/2011
6/17/2011
6/18/2011
6/19/2011
6/20/2011
6/21/2011
6/22/2011


RPM10 15-min Time Weight Average
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
RPM10 Concentration (ug/m3)
180
160
140
120
100
80
60
40
20
0
6/21/11 0:00
6/21/11 2:24
6/21/11 4:48
6/21/11 7:12
6/21/11 9:36
6/21/11 12:00
6/21/11 14:24
6/21/11 16:48
6/21/11 19:12
6/21/11 21:36
6/22/11 0:00


RPM10 4-Hour Rolling Average during 7:30-17:30
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
"Acute Action Level"
RPM10 Concentrations (ug/m3)
120
110
100
90
80
70
60
50
40
30
20
10
0
6/21/11 7:26
6/21/11 8:38
6/21/11 9:50
6/21/11 11:02
6/21/11 12:14
6/21/11 13:26
6/21/11 14:38
6/21/11 15:50
6/21/11 17:02


RPM10 Running Average Since 06/16/11
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
Subchronic Action Level
RPM10 Concentrations (ug/m3)
60
50
40
30
20
10
0
6/16/2011
6/17/2011
6/18/2011
6/19/2011
6/20/2011
6/21/2011
6/22/2011