SCA Environmental, Inc.

DAILY REPORT

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PROJECT NAME		**Sent to:**	**Name**
	Sherwin-Wiilams, Emeryville, CA	SCA	Chuck Siu
SCA PRJ #	B10036	CDM	D Cline
Zone: Main	Activities: Air Sampling		
Inspected by: JY	Date: Thu 6/23/11		
Reviewed by: CS	Date: Tue 6/28/11		

Miscellaneous Info		**Work In Progress: Shift of**
No. Workers On Site (est.)		**Excavation of raised cap materials**

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	<0.009	<0.009	NA	<0.009	NA	NA		0.015	0.200
Arsenic(respirable) PM µg/m^3	NA	<0.009	0.011	NA	<0.009	NA	NA		0.015	0.200
Arsenic(respirable) nite µg/m^3	NA	<0.003	<0.003	NA	<0.003	NA	NA		0.015	0.200
Lead (respirable) TWA µg/m^3	NA	<0.009	<0.009	NA	<0.009	NA	NA		0.15	N/A
Benzene µg/m^3	NA	0.39	0.52	NA	0.38	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	1.2	2.6	NA	0.84	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, AM 7:30-12:30) µg/m^3	24.05	26.17	26.27	27.86	18.15	33.16	23.49	23.10	54.46	55.66
Resp Dust(max 4-hr rolling avg, PM 12:30-17:30) µg/m^3	26.31	28.99	29.39	30.41	19.93	36.08	26.21	16.07	51.82	53.02
Resp Dust(max 4-hr rolling avg, nite 17:30-7:30 next day) µg/m^3	24.12	23.19	52.41	24.74	14.41	27.19	22.3	21.22	71.85	N/A
Total VOCs (24-hr avg, 7:30am-7:30am next day) ppmv	0.010	0.375	0.139	0.009	0.014	0.029	0.102	0.013	0.450	20.868

	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	<60%	<5%	<60%	<5%	NA	NA	<60%	<5%	NA	NA	NA	NA
Arsenic(respirable) PM %	NA	NA	<60%	<5%	73%	6%	NA	NA	<60%	<5%	NA	NA	NA	NA
Arsenic(respirable) nite %	NA	NA	<20%	<2%	<20%	<2%	NA	NA	<20%	<2%	NA	NA	NA	NA
Lead (respirable) %	NA	NA	<6%	N/A	<6%	N/A	NA	NA	<6%	N/A	NA	NA	NA	NA
Benzene %	NA	NA	65.0%	1.3%	86.7%	1.8%	NA	NA	63.3%	1.3%	NA	NA	NA	NA
MEK %	NA	NA	<4.1%	<0.1%	<4.1%	<0.1%	NA	NA	<4.1%	<0.1%	NA	NA	NA	NA
1,2-dichloroethane %	NA	NA	<93.3%	<0.0003%	<93.3%	<0.0003%	NA	NA	<93.3%	<0.0003%	NA	NA	NA	NA
Ethylbenzene %	NA	NA	<4.9	<0.1%	<4.9	<0.1%	NA	NA	<4.9	<0.1%	NA	NA	NA	NA
Tetrachlorethene %	NA	NA	<85.0%	<0.01%	<85.0%	<0.01%	NA	NA	<85.0%	<0.01%	NA	NA	NA	NA
Toluene %	NA	NA	0.4%	0.2%	0.9%	0.4%	NA	NA	0.3%	0.1%	NA	NA	NA	NA
Trichloroethene %	NA	NA	<78.6%	<0.008%	<78.6%	<0.008%	NA	NA	<78.6%	<0.008%	NA	NA	NA	NA
1,2,4-trimethylbenzene %	NA	NA	<4.2%	<0.004%	<4.2%	<0.004%	NA	NA	<4.2%	<0.004%	NA	NA	NA	NA
1,3,5-trimethylbenzene %	NA	NA	<4.2%	<0.004%	<4.2%	<0.004%	NA	NA	<4.2%	<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	<3.0%	<1.0%	<3.0%	<1.0%	NA	NA	<3.0%	<1.0%	NA	NA	NA	NA
Resp Dust(max 4-hr rolling avg, AM 7:30-12:30) µg/m^3 %	44%	43%	48%	47%	48%	47%	51%	50%	33%	33%	61%	60%	43%	42%
Resp Dust(max 4-hr rolling avg, PM 12:30-17:30) µg/m^3 %	51%	50%	56%	55%	57%	55%	59%	57%	38%	38%	70%	68%	51%	49%
nite 17:30-7:30 next day) µg/m^3%	34%	N/A	32%	N/A	73%	N/A	34%	N/A	20%	N/A	38%	N/A	31%	N/A
Total VOCs (24-hr avg, 7:30-7:30AM next day) ppmv %	2.2%	0.0%	83.4%	1.8%	30.9%	0.7%	2.0%	0.0%	3.1%	0.1%	6.5%	0.1%	22.7%	0.5%

Comments/Detailed Description of Conditions:

Envirocon continued excavating the raised cap materials and stockpiling the soil at the west side of the site.

***RPM10 Action levels during working hours (7:30-17:30)=background levels for particular period+action levels for Raised Cap Materials(will be updated corresponding to the daily activities)+effect from misting system (value was provided by CDM, today's value 33).**
RPM10 Action levels during non working hours (17:30-7:30 next day)=background levels for particular period+50(BAAMD regulatory value)
TVOC Action levels during all hours=background levels for particular period+action levels for Raised Cap Materials
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

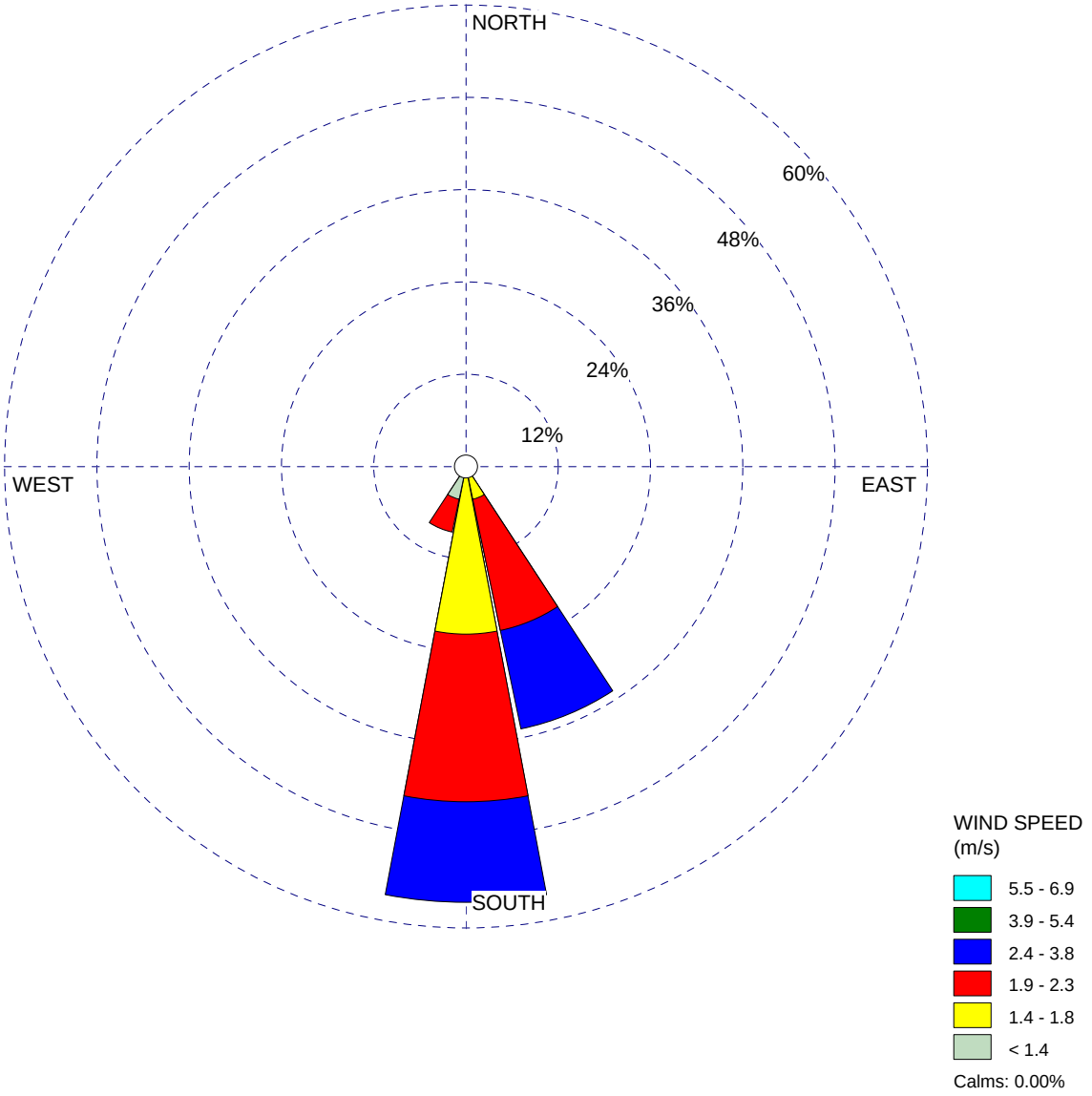
Subchronic action level plus the background RPM10 or TVOC levels constitutes the yellow alarm for slow down and/or increased vapor/dust control.
Acute action level plus the background RPM10 or TVOC levels constitutes the red alarm for stop work.

WIND ROSE PLOT:

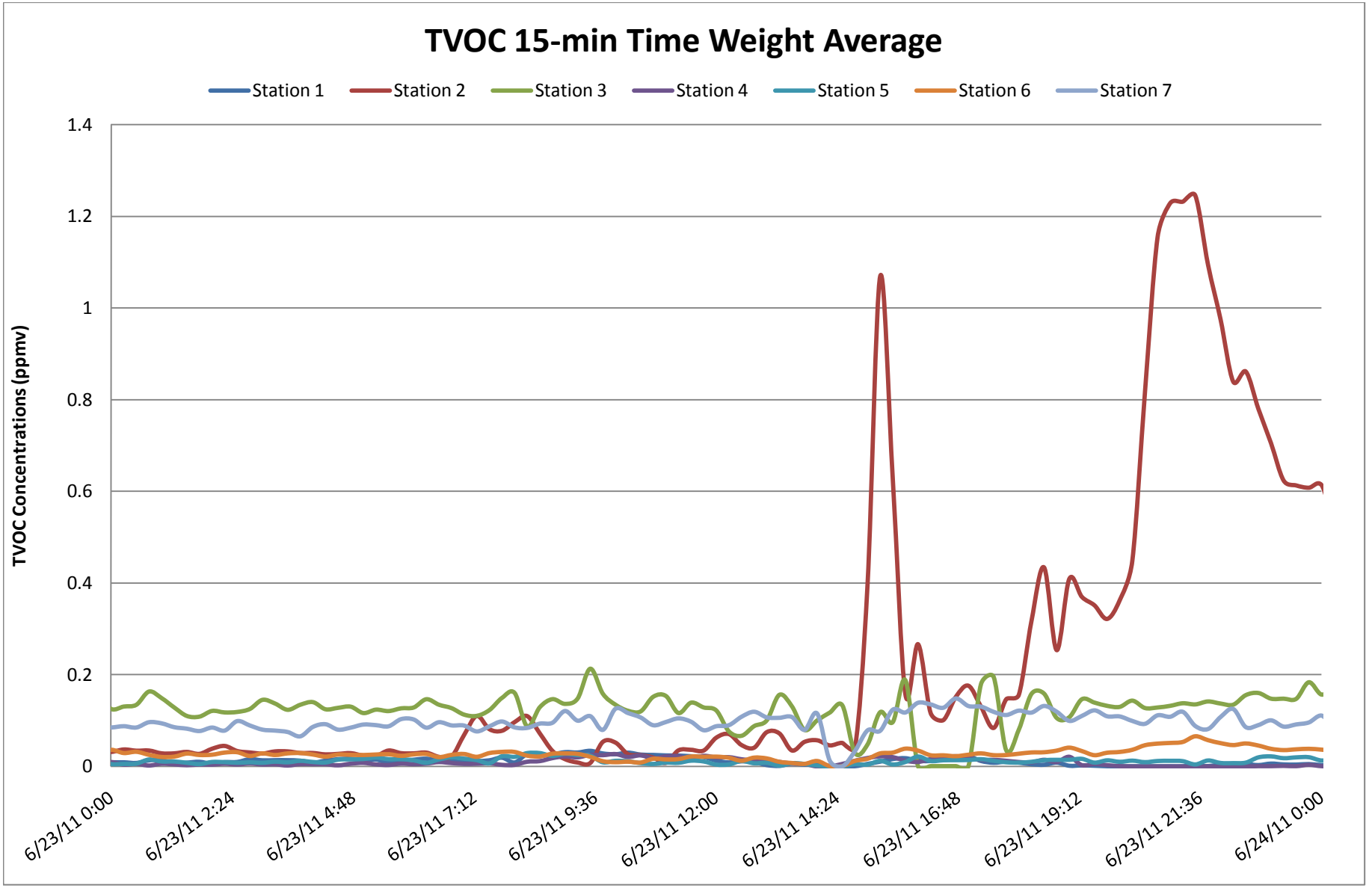
Station #SW

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 6/23/2011 - 01:00** **End Date: 6/23/2011 - 23:00**	COMPANY NAME: **CDM & SCA**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **23 hrs.**	
	AVG. WIND SPEED: **2.11 m/s**	DATE: **6/24/2011**	PROJECT NO.:


TVOC 15-min Time Weight Average
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
TVOC Concentrations (ppmv)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6/23/11 0:00
6/23/11 2:24
6/23/11 4:48
6/23/11 7:12
6/23/11 9:36
6/23/11 12:00
6/23/11 14:24
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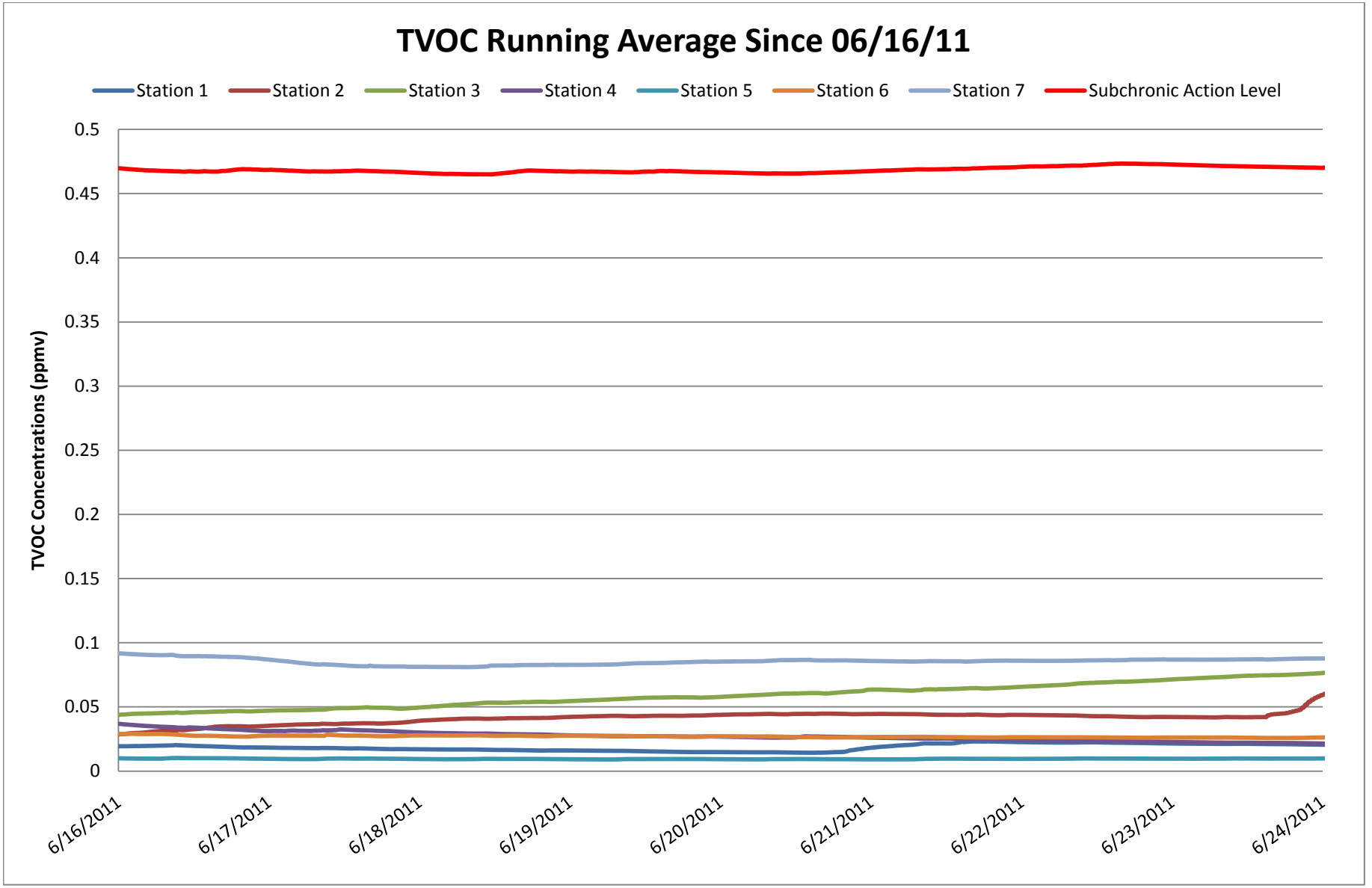
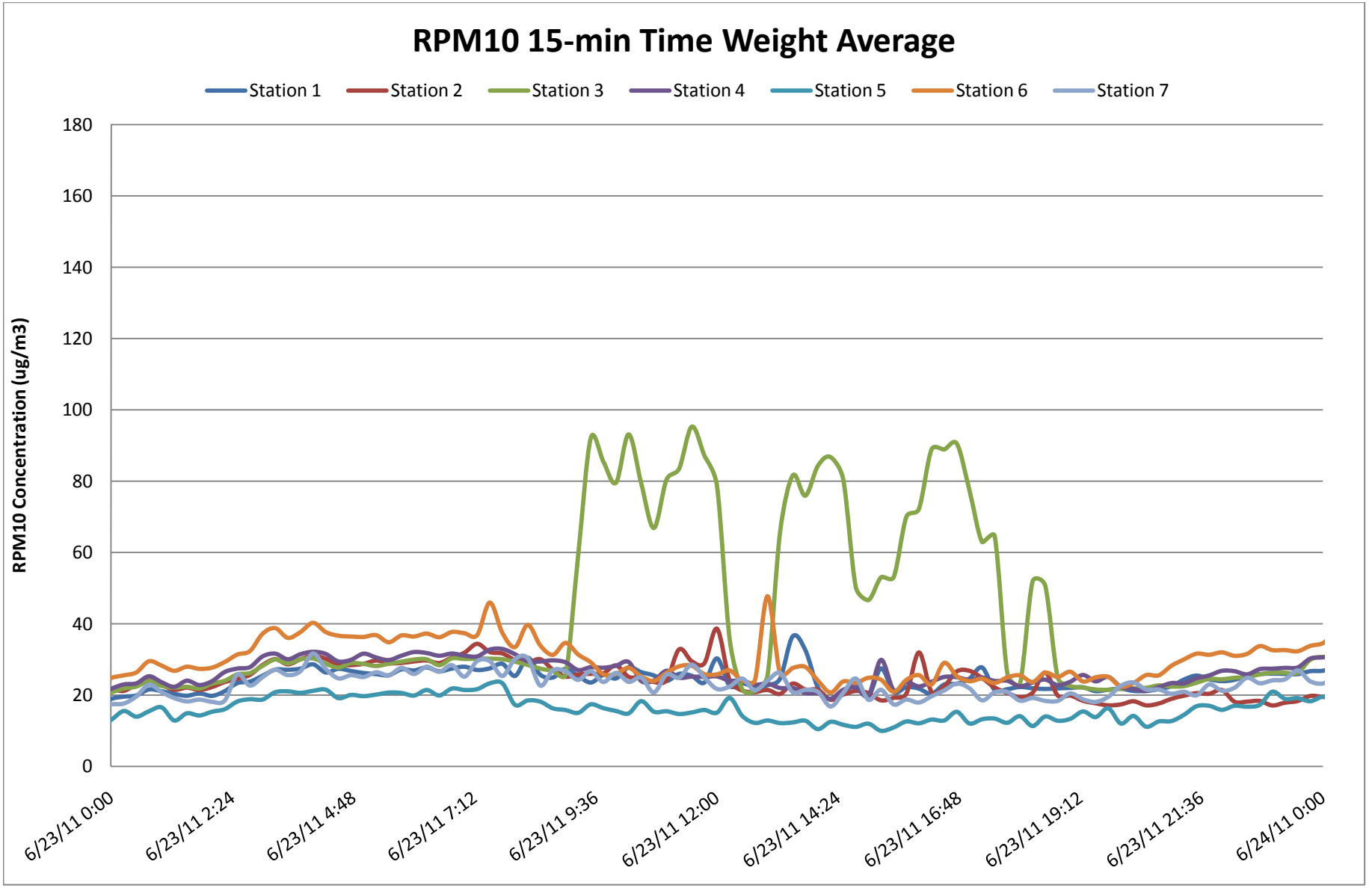
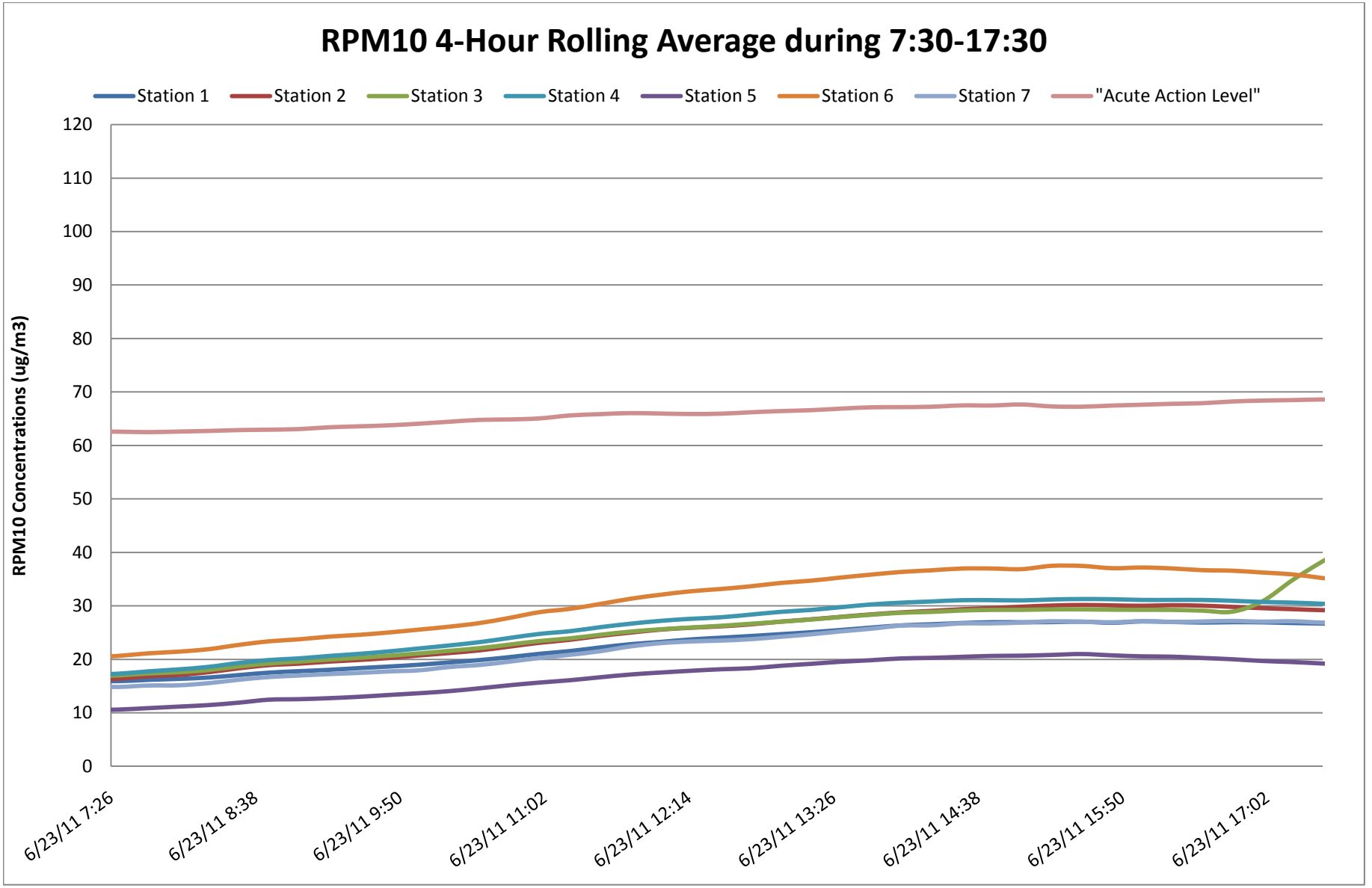
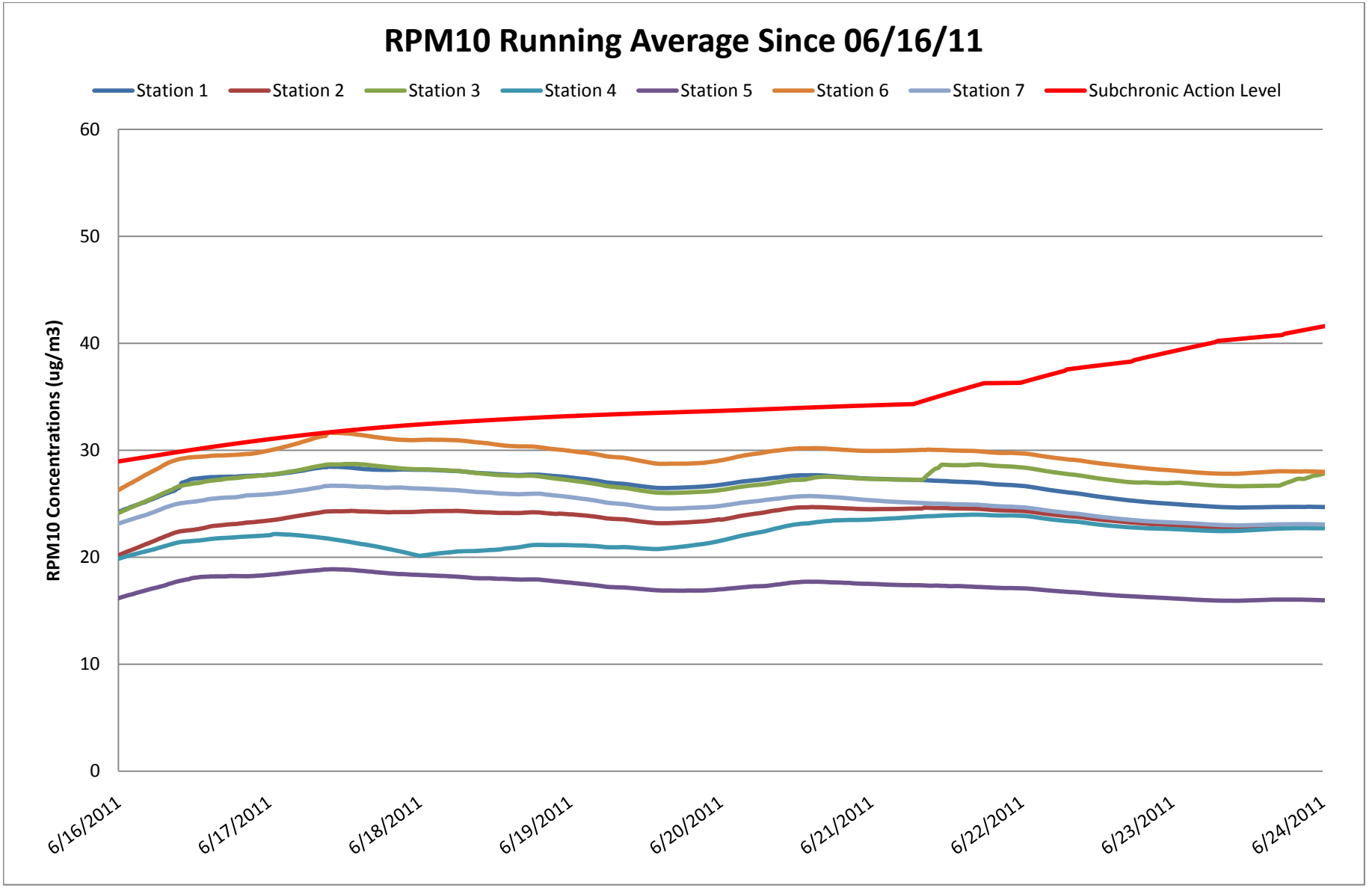
6/23/11 19:12
6/23/11 21:36
6/24/11 0:00


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
6/23/2011
6/24/2011


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
6/23/11 0:00
6/23/11 2:24
6/23/11 4:48
6/23/11 7:12
6/23/11 9:36
6/23/11 12:00
6/23/11 14:24
6/23/11 16:48
6/23/11 19:12
6/23/11 21:36
6/24/11 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
6/23/11 7:26
6/23/11 8:38
6/23/11 9:50
6/23/11 11:02
6/23/11 12:14
6/23/11 13:26
6/23/11 14:38
6/23/11 15:50
6/23/11 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
6/23/2011
6/24/2011