

Countywide Recycling and Disposal Facility

Weekly Progress Report

05/15/09

This Weekly Progress Report is prepared by Countywide and submitted to the OEPA weekly by the close of business on each Friday. This meets the requirement of Order No. 5 of the December 31, 2007 Findings and Orders to provide updates on progress of field activities.

In addition, this report provides updated presentations of data being collected. All information presented in this report originates from the publicly-available data being gathered as part of the normal operational requirements of the facility or as part of the Director's Findings and Orders. **This report covers the period May 9, 2009 to May 15, 2009.**

PROGRESS ON FIELD ACTIVITIES TOWARD DECEMBER 31, 2007 ORDERS

See the attached **Table 1**.

DATA PRESENTATION

Bold font in comments column means updated version included with this report.

<u>Attachment</u>	<u>Attachment No.</u>	<u>Comments</u>
Wellhead Temperature Graph	1	Updated May 15, 2009
Downhole Temp. Graph	2	Updated May 15, 2009
FBMP Max. In-Situ Temp. Graph	3	Updated May 15, 2009
Leachate Sump Temperature. Graph	5	Updated May 15, 2009
LCS Temperature Graph	6	Updated May 15, 2009
Weekly Cumulative Sett. Graph	7	Updated May 8, 2009
Quarterly Cumulative Sett. Graph	8	Updated March 27, 2009
CO Graph	9	Updated May 15, 2009
Leachate Volume Graph	10	Updated April 24, 2009
Leachate COD Graph	11	Updated March 20, 2009
Leachate TDS Graph	12	Updated March 20, 2009
Odor (Nasal Ranger) Readings	13	Updated March 20, 2009

<u>Appendices (transmitted separately)</u>	<u>Appendix No.</u>	<u>Comments</u>
Wellhead Temperature Zone Map	A	Updated May 1, 2009
4-Week Cumulative Sett. Front Map	B	Updated May 8, 2009
Carbon Monoxide Zone Map	C	Updated March 20, 2009

AMBIENT AIR SAMPLING ACTIVITIES LOG

See attached **Table 2**.

COMMENTARY ON DATA

Attachment 1, wellhead temperature data is collected from all wells within the 88 acre area and suggests that the average temperature is still increasing within the waste mass (up from 136.5° F in April 2008 to 138.0° F in April 2009). Attachment 2, average downhole temperature data is only collected from the warm center of the reaction area (from wells that have historically exhibited wellhead temperatures greater than 150°F); this suggests that the average temperature within the core area is decreasing slightly, but very slowly.

The FBMP temperature data (Attachment 3) is tending to increase slowly overall, but is not getting any warmer at the warmest locations. These temperatures are gathered primarily to the west and north of the reaction area but in areas to which the reaction is moving (as interpreted from settlement maps—see last week's Progress Report).

Leachate temperature and leachate collection temperature data are more difficult to interpret but also suggest that Cells 1, 2, 3, and 4 are decreasing in overall temperature while Cells 5 and 6 are increasing.

In its aggregate, all of this temperature data agrees with the observations from settlement data (see last week's Progress Report), which suggests that the overall intensity of the reaction is decreasing while moving slowly to the southwest, west, and northwest. We believe that the average wellhead temperature is increasing because more waste mass is impacted by the reaction each month, while areas that were previously impacted are cooling very slowly.

TABLE 1

WEEKLY PROGRESS REPORT FOR DECEMBER 31, 2007 F&Os
 COUNTYWIDE LANDFILL
 WEEK ENDING 05-15-09

Work Item	Units of Measure	Estimated Required or Goal*	Previously Completed	Completed This Period	Total Completed to Date	Est. to be Completed Next Week	Comments
Install Vertical Relief Wells	ea.	4	4	0	4	0	RW-4 was abandoned due to a casing failure on April 8, 2009. RW-2 was abandoned due to casing failure on March 25, 2009.
Install Perm. Dewatering Pumps and Infrastructure	ea.	44	44	0	44	0	
Install 4-inch HDPE Liquid Discharge Line	l.f.	3000	3000	0	3000	0	
Install 2-inch HDPE Air Supply Line	l.f.	10500	10500	0	10500	0	
Install and Test Compressors	ea.	3	3	0	3	0	
Relocate Flares from Top of Landfill	ea.	1	1	0	1	0	
Install New Gas Wells	ea.	37 (original goal was 10)	37	0	37	0	
Replace Compromised Wells	ea.	23 (original goal was 12)	23	0	23	0	
Install Perm. Dewatering Pumps in New and Replacement Gas Wells	ea.	20	18	0	18	0	
Install 4-inch HDPE Liquid Discharge Line for new gas wells	l.f.	2000	2500	0	2500	0	
Install 2-inch HDPE Air Supply Line for new gas wells	l.f.	2000	2500	0	2500	0	
Measure Achievable Drawdown	ea.	73	73	0	73	0	
Establish Baseline Flow	ea.	1	0	0	0	0	

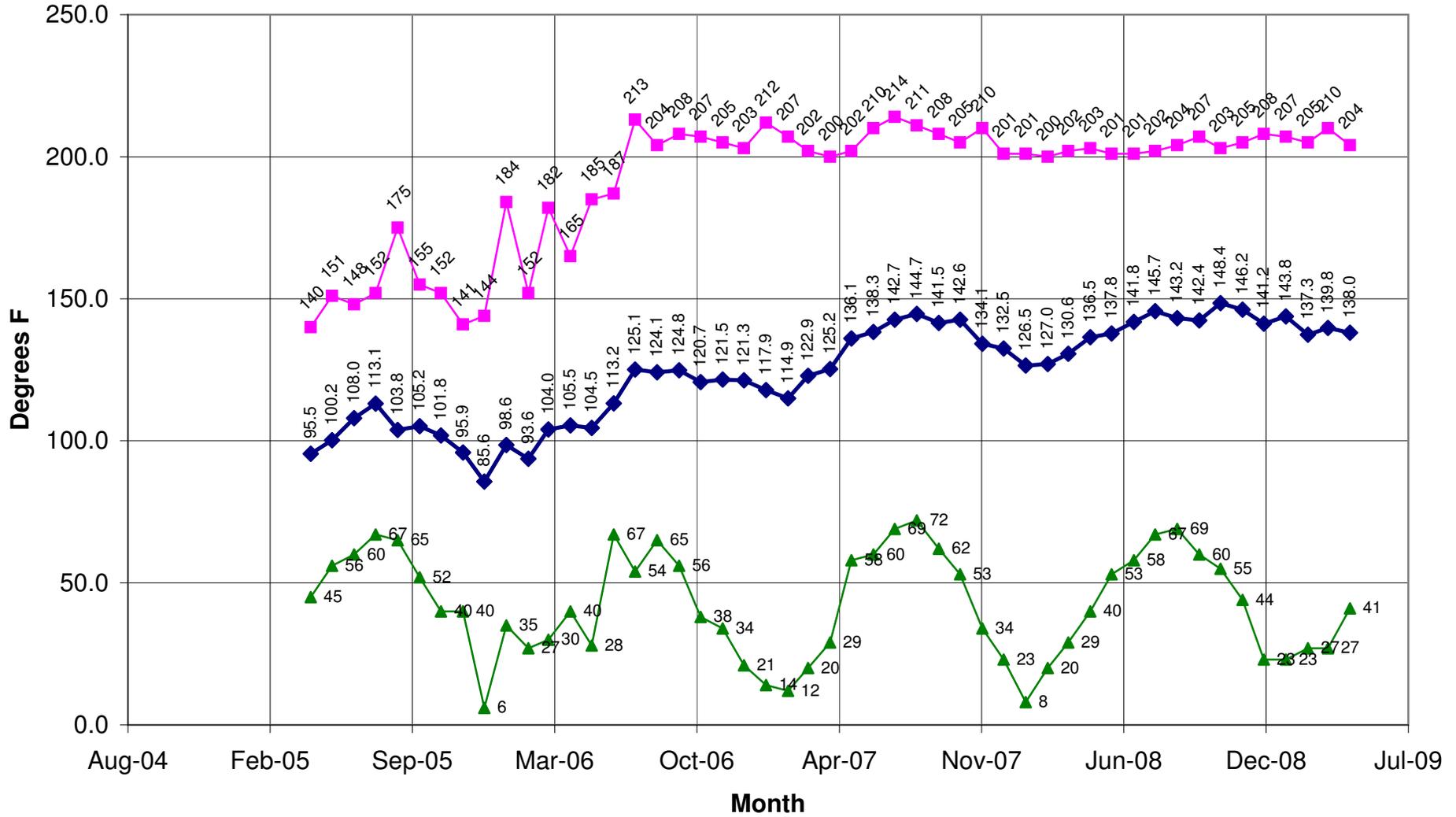
* The estimate of "required" or "goal" items may change as project progresses.

Note: This table presents one-time field activities and does not address recurring activities such as liquid level measurements, downhole temperature profiles, liquid sampling, etc.

Table 2
Log of Field Activities and Conditions
Per Order No. 2.B of Feb. 7, 2008 Orders

Date	Approx. Time	Contractor	Location	Field Activity or Potentially Odor-Causing Incident.
5/10/09	NA	NA	NA	No activity monitored
5/11/09	7:00-20:00	AEG	88 Acres	Drilling, Pump Maintenance, Construction, Gas Sampling
5/12/09	7:00-19:00	AEG	88 Acres	Drilling, Pump Maintenance, Construction, Downhole, Flare Change over
5/13/09	7:00 - 17:00	AEG	88 Acres	Drilling, Pump Maintenance, Construction, Flare Start-Up/Shutdown
5/14/09	7:00-17:00	AEG	88 Acres	Pump Maintenance, Construction, Downhole Temps.
5/15/09	7:00-15:00	AEG	88 Acres	
5/16/09	7:00 - 15:00	NA	NA	

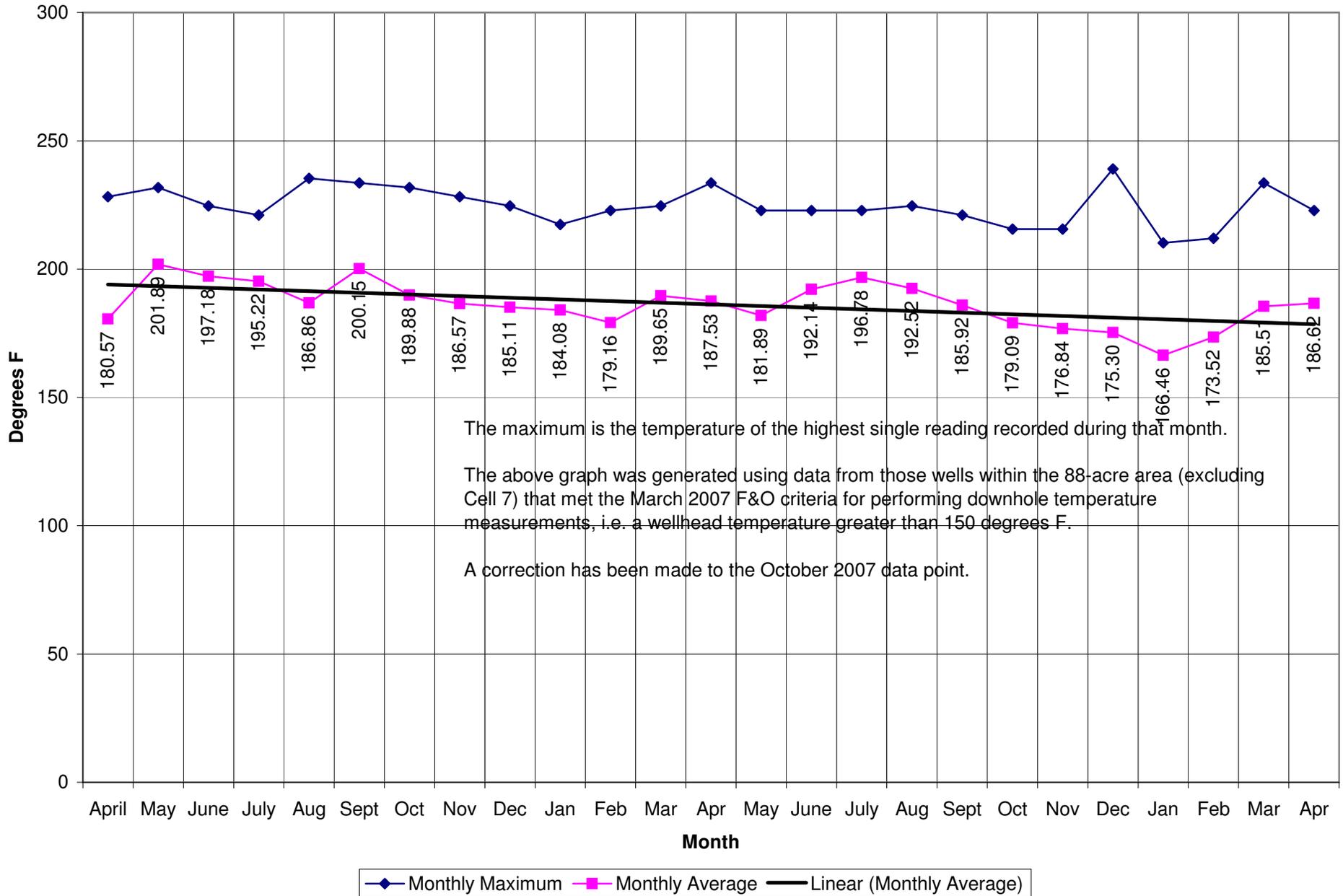
Initial Wellhead Temperatures in the 88-acre Area



All Cell 7 wells excluded except PW-315.
Anomalous readings from PW-147 excluded for June 2008.

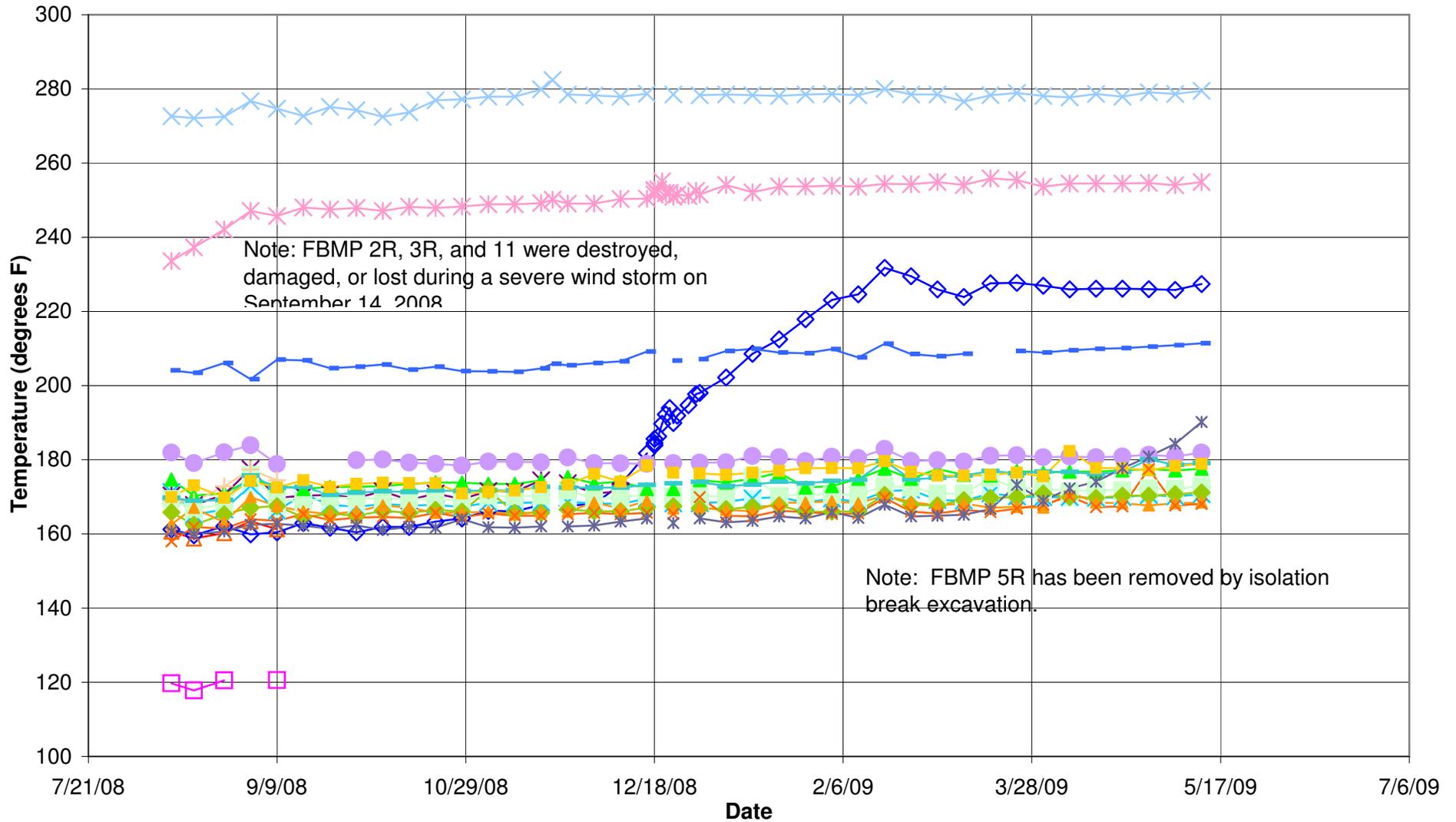
◆ Monthly Average ■ Monthly Maximum ▲ Monthly Minimum

Downhole Temperatures Monthly Maximums and Averages

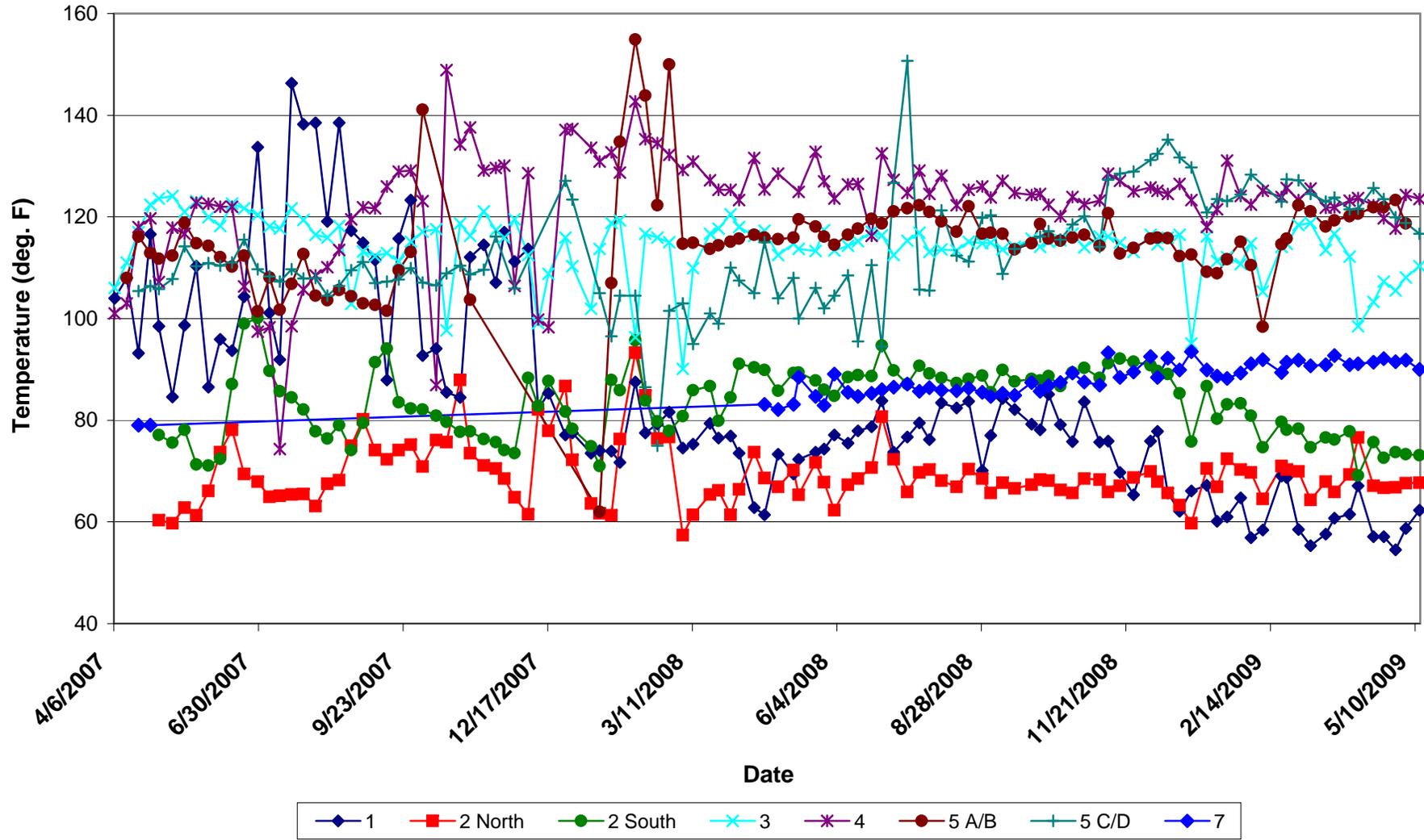


In-situ Temperatures Maximum Readings per Date per FBMP Boring

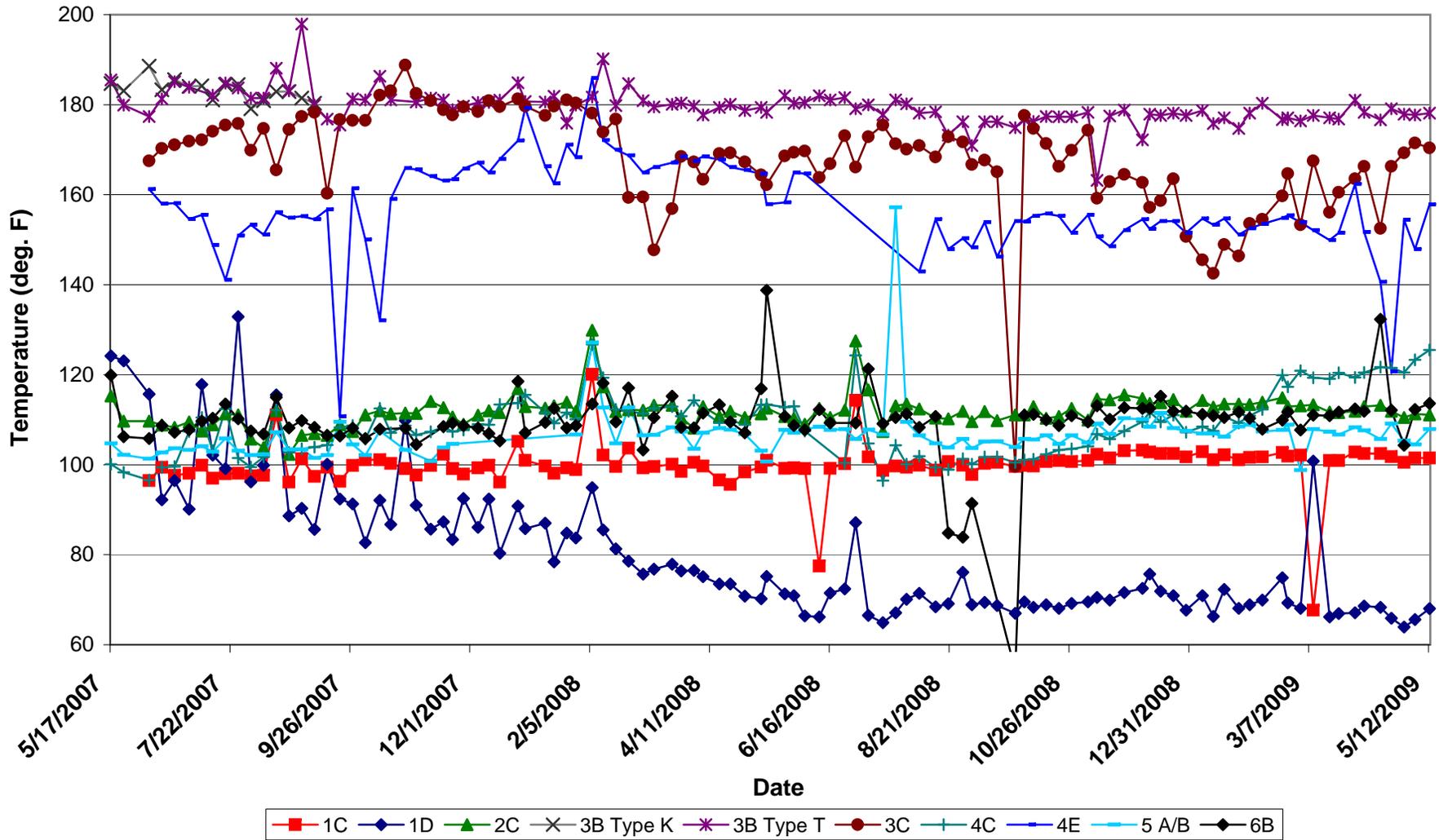
ATTACHMENT 3



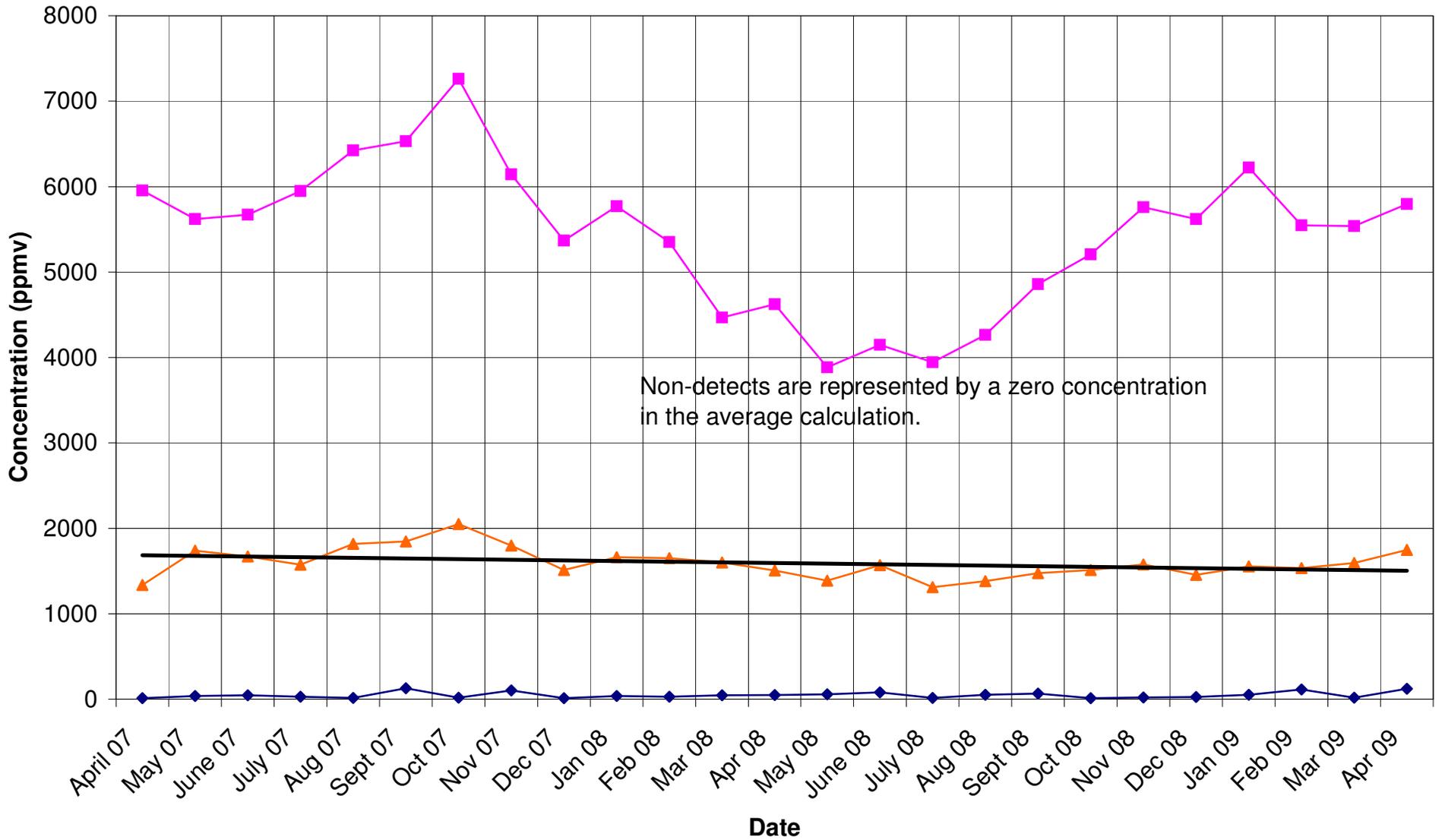
Weekly Leachate Temperatures in Cell Sump



Weekly Leachate Cleanout Riser Temperatures



Carbon Monoxide Concentrations (Excluding Invalid Sample Results)



◆ Minimum Detected Concentration
 ■ Maximum Concentration
 ▲ Average Concentration
 — Linear (Average Concentration)