

Bridgeton Landfill, LLC

Weekly Data Submittals

**Required by Section 52.F of Agreed Order, Case No. 13SL-CC01088
Effective May 13, 2013**

Contents:

Attachment A – Leachate Levels in Leachate Collection Sumps

Attachment B – Temperature Monitoring Probe Analytical Charts

Attachment C – Gas Interceptor Wellhead Temperature Graphs

Provided Separately:

- Leachate Level in Leachate Collection Sump Raw Data Excel Spreadsheet**
- Temperature Monitoring Probe Raw Data Excel Spreadsheet**
- Gas Interceptor Well Reading Raw Data Excel Spreadsheet**

February 4, 2014

Commentary on Data

Attachment A – Leachate Levels in Leachate Collection Sumps

LCS-1, -2, -5, -6 were operational during the weekly reporting period.

An upgrade to install a progressive-cavity pump is planned for LCS-3 for the first quarter of 2014.

LCS-4B still exhibits excess pressure and liquid ejection, so it has not been fitted with a pump; however, the conditions are resulting in leachate removal from that location. The option of utilizing a progressive-cavity pump at this location is being evaluated.

Excluding LCS-3 and -4B, leachate collection sumps are operating properly during this reporting period.

Temperature Monitoring Probe Analytical Charts

The following TMPs indicated consistent or lower temperature profiles than previous week(s): TMP-1,-2, -3,-4, -5,-7R,-8,-9, -10, -11, and -12.

TMP -6 and -14 data shows a slight increase at shallow elevations.

TMP-13 data was deemed to be irregular and outside the range of reliable connectivity measurements.

The resistance in many of the TMP(s) show a slight increase in resistivity. Maintenance was completed in the previous week on components realizing irregular readings. The maintenance included cleaning of select electrical connection components. Additional work is being planned over the next few weeks that includes replacement of select electrical components associated to irregular data readings.

TMP-8 irregular readings are due to the resistance of the thermocouple at 80 ft.

Gas Interceptor Wellhead Temperature Graphs

The fluctuation in wellhead gas temperatures can be attributed to variation in available vacuum, gas flow and ambient temperatures at the respective well.

GIW-12 is showing a slight increase in wellhead temperature readings over the last few weeks. The variation is most probably attributed to the aforementioned parameters.

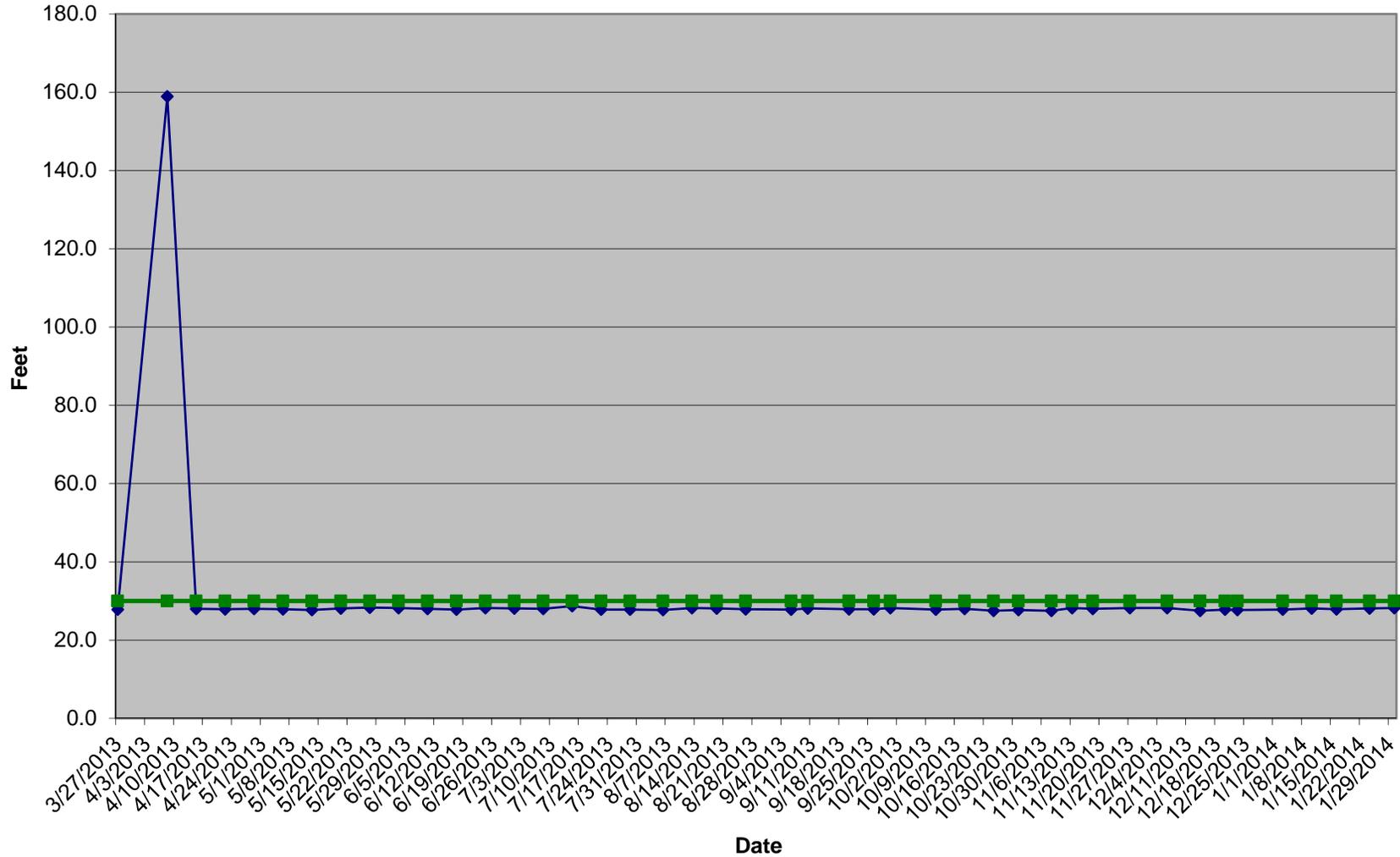
Excluding GIW-12 the other wells have shown relatively stable temperature range in the past several weeks.

The water circulation cooling loop is currently installed in GIW-4. The cooling point has realized temporary down time due to the freezing temperatures over the last few weeks. No reading was collected due to the current condition of the cooling loop.

ATTACHMENT A

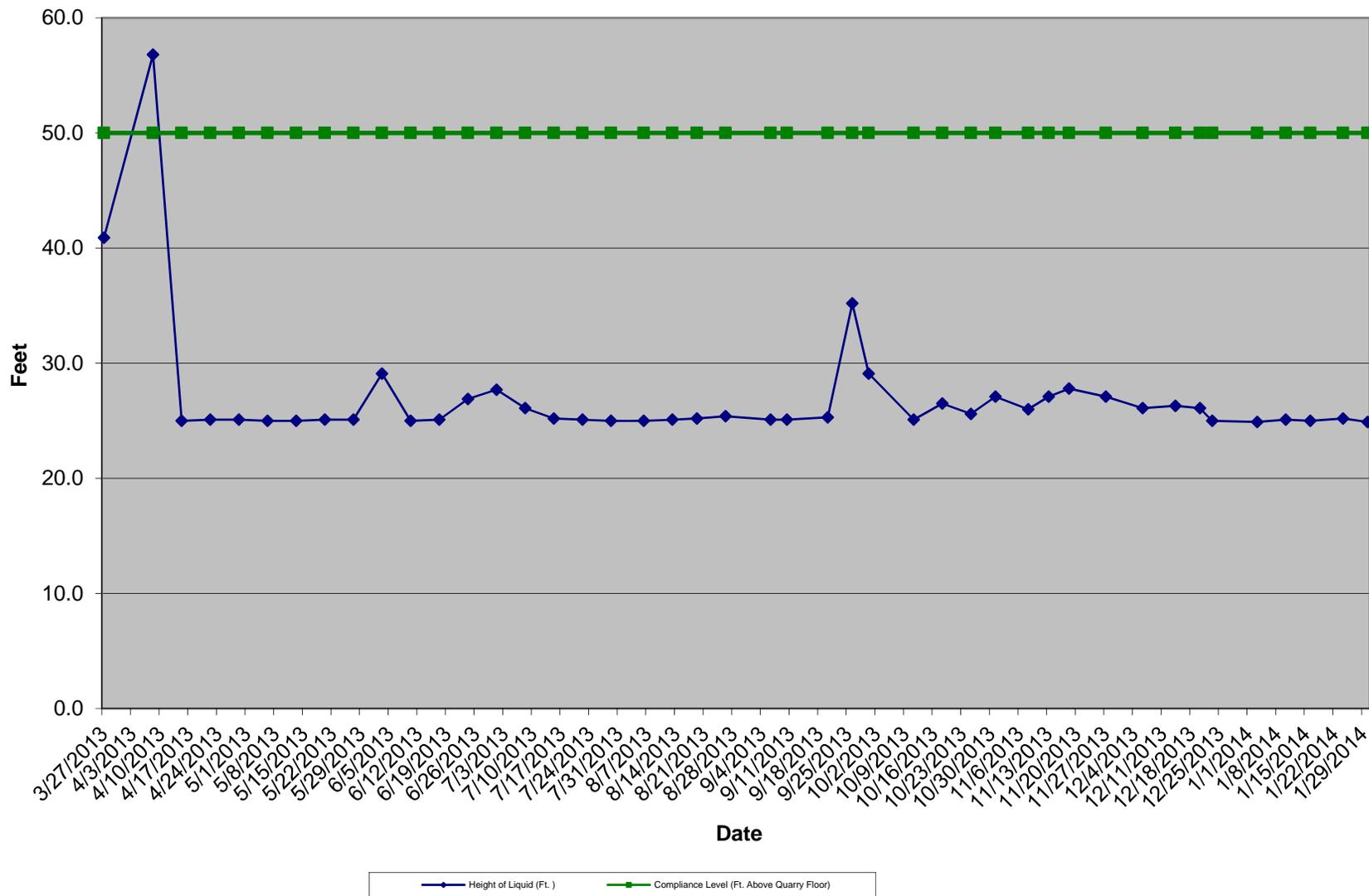
LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS

LCS-2D Liquid Level Above Quarry Floor

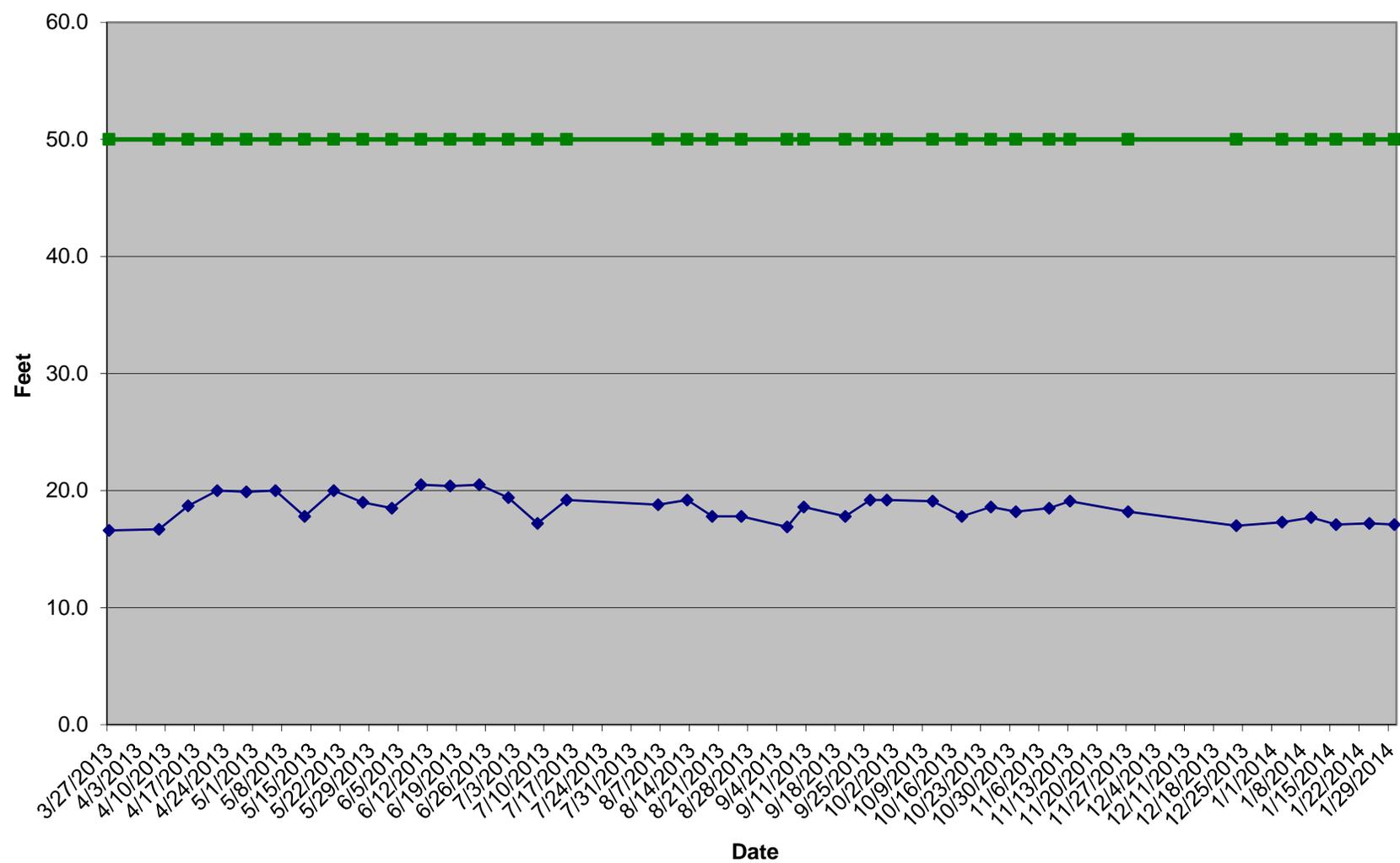


◆ Height of Liquid (Ft.) ■ Compliance Level (Ft. Above Quarry Floor)

LCS-5A Liquid Level Above Quarry Floor



LCS-6B Liquid Level Above Quarry Floor

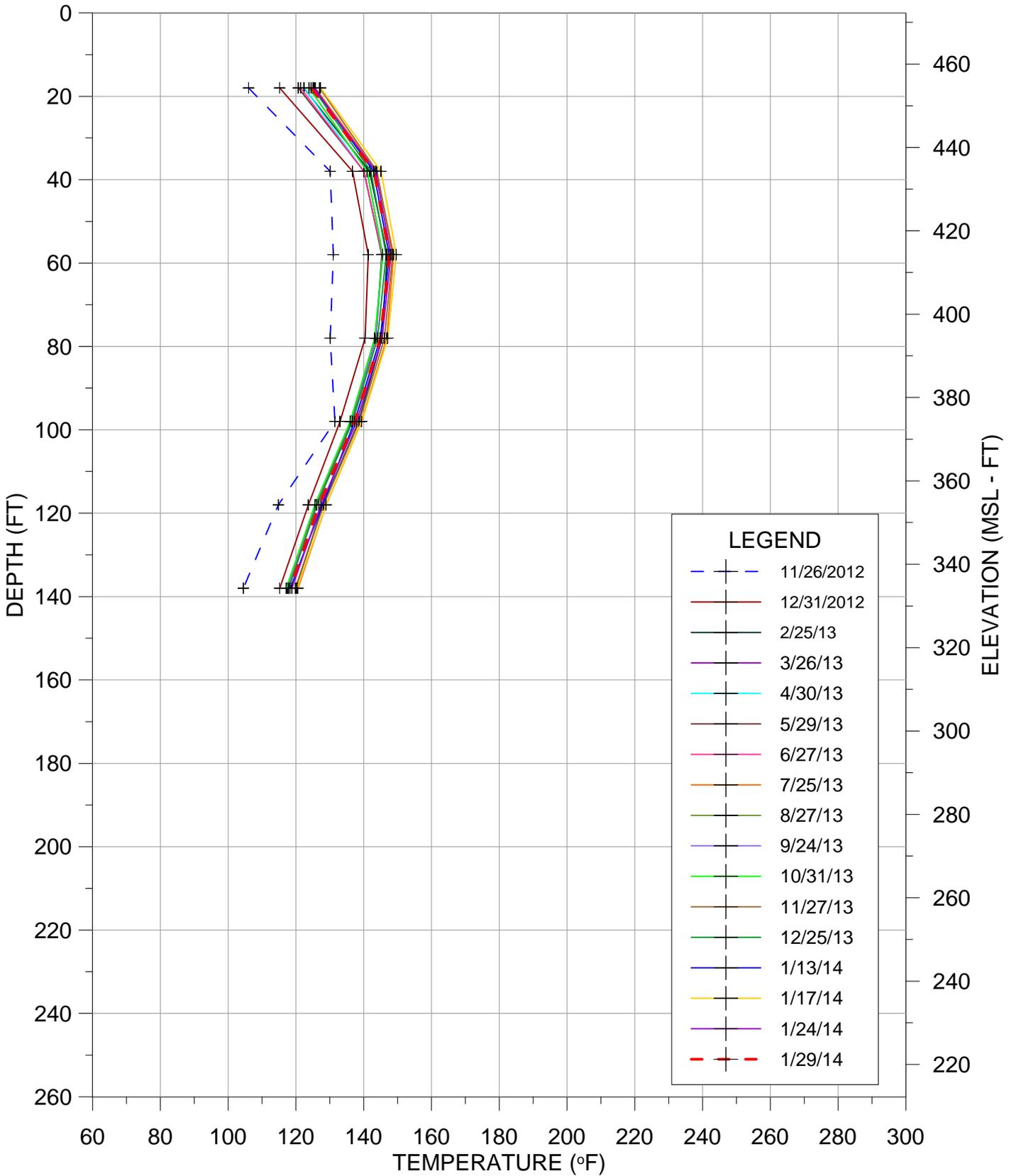


◆ Height of Liquid (Fl.) ■ Compliance Level (Fl. Above Quarry Floor)

ATTACHMENT B

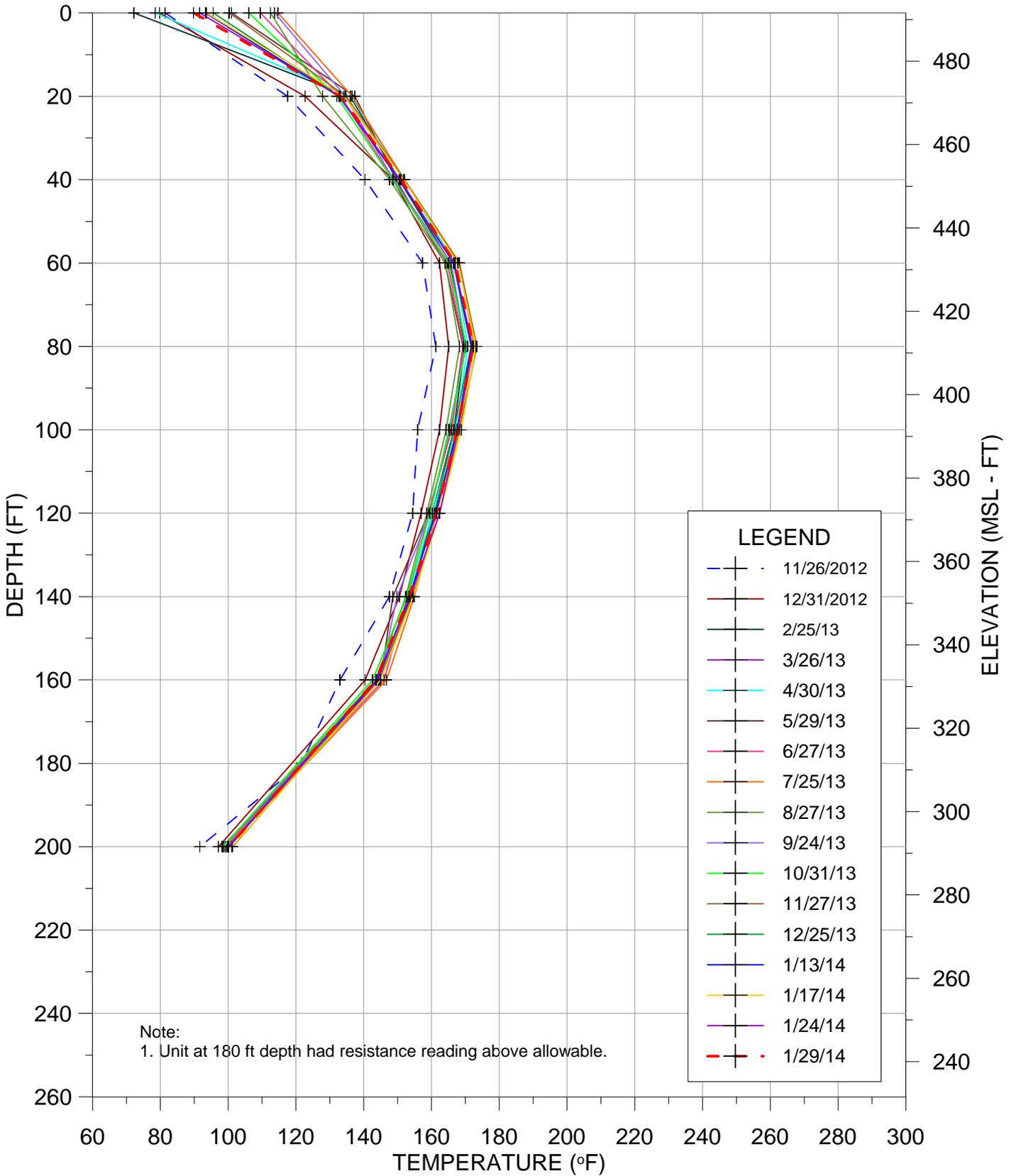
TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS

TMP-1



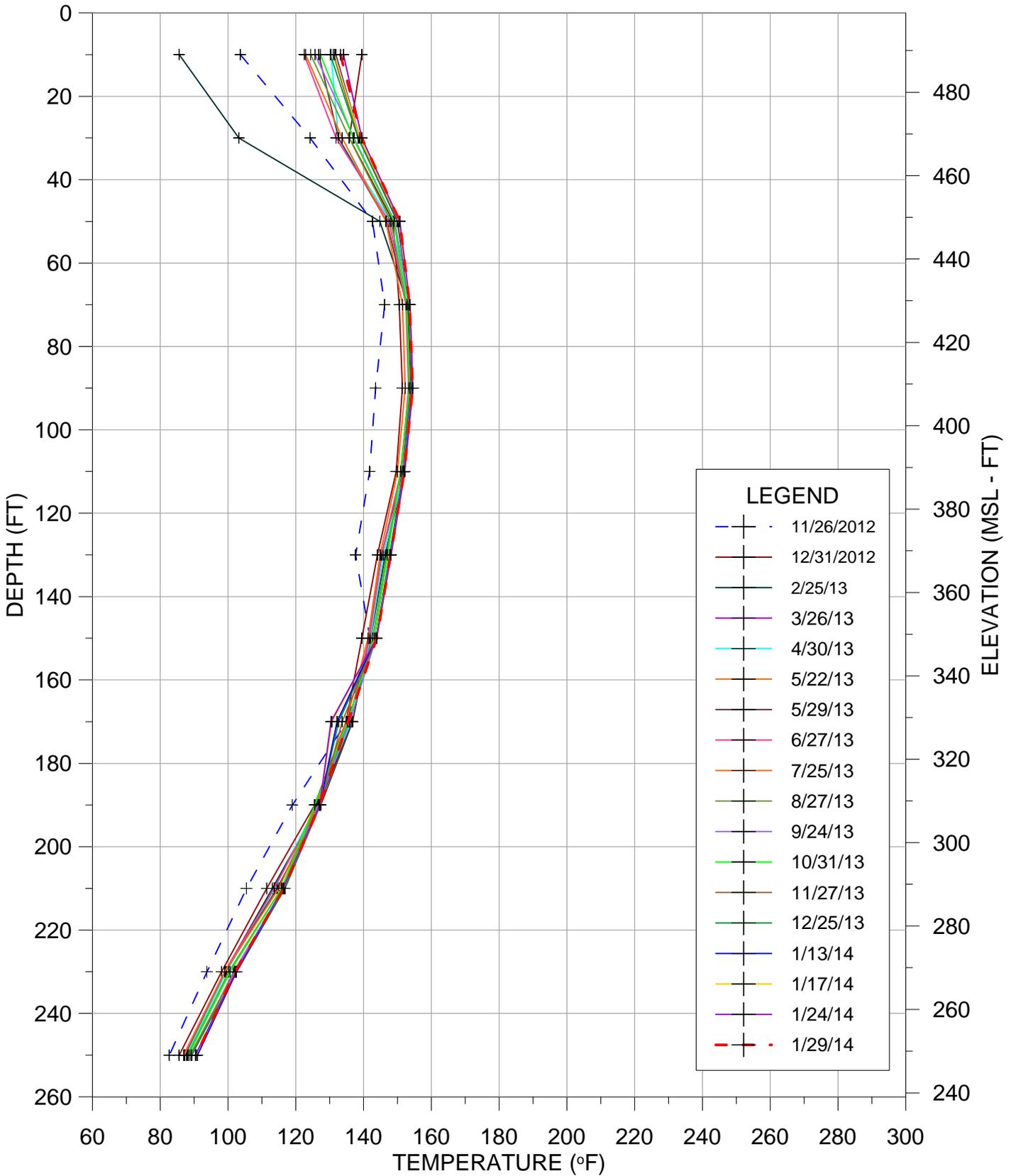
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-2



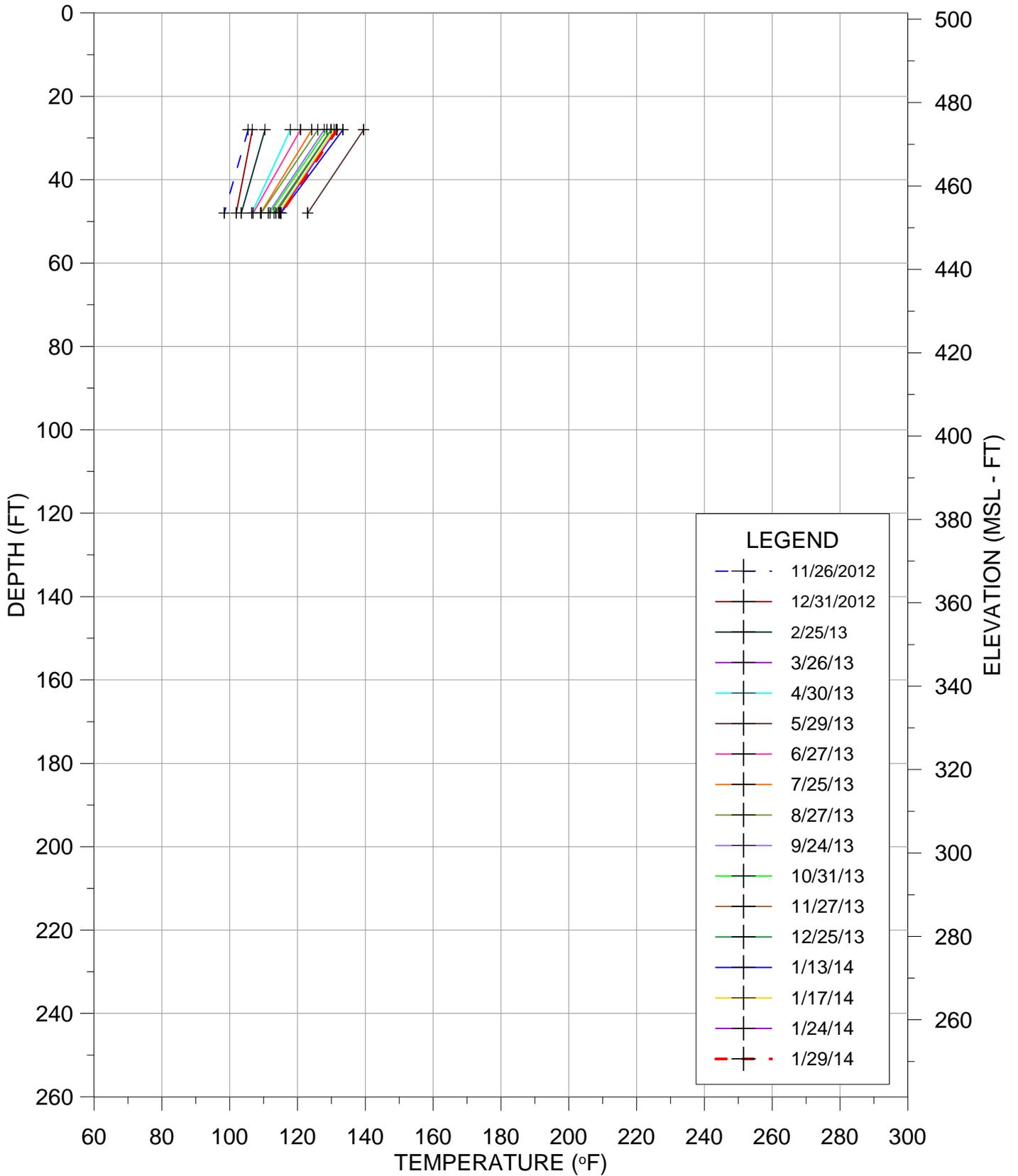
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-3



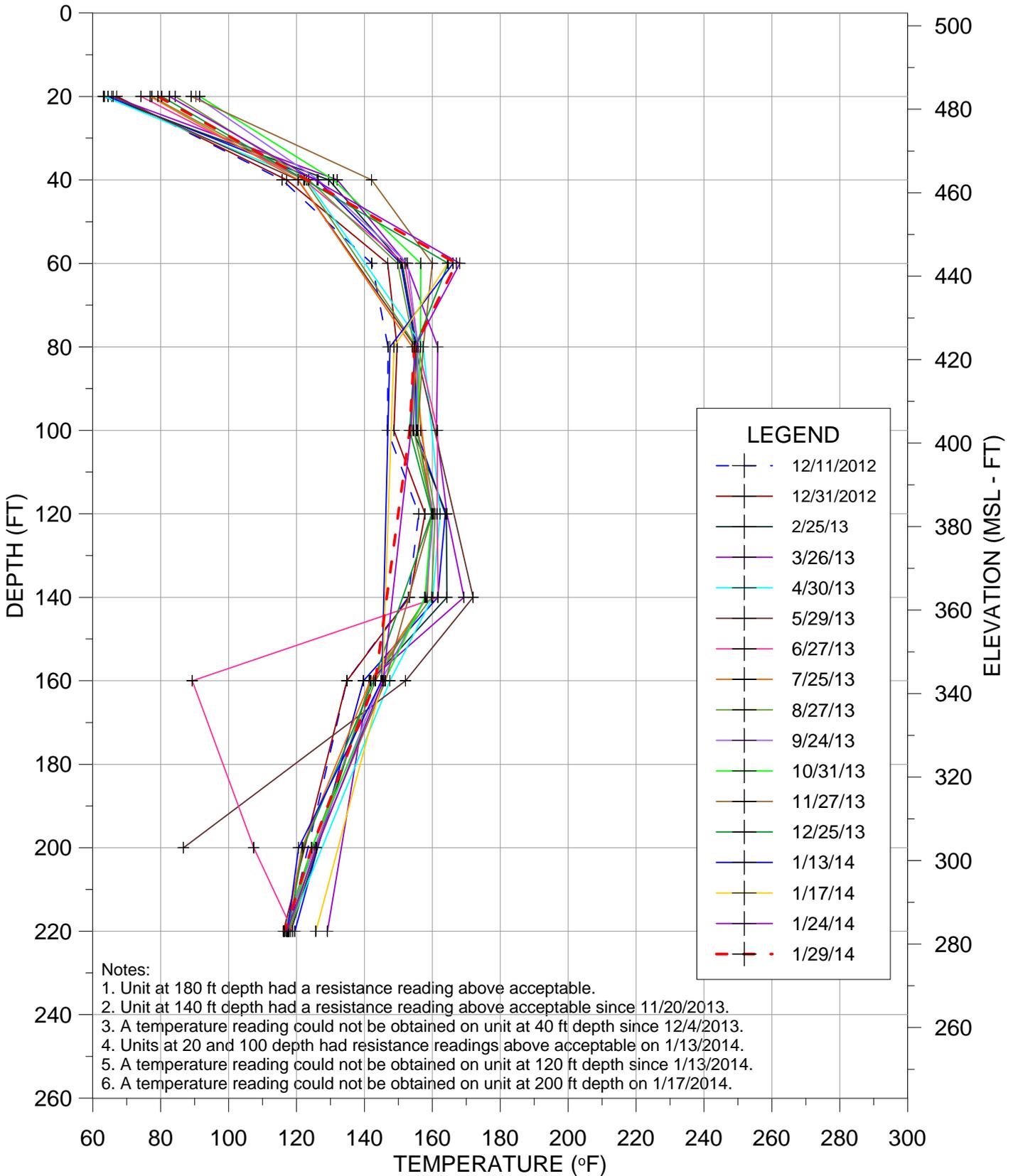
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-4

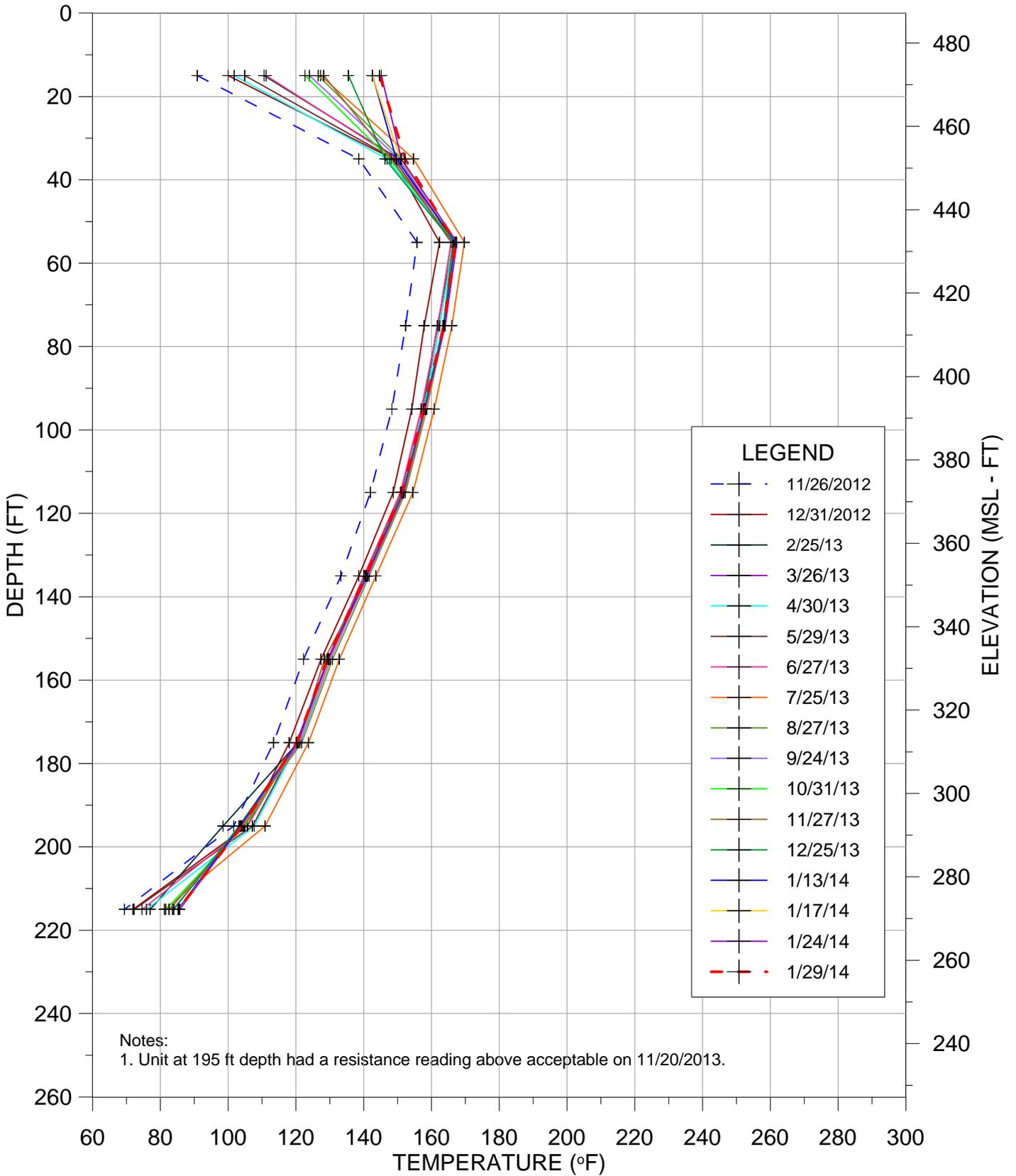


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-5

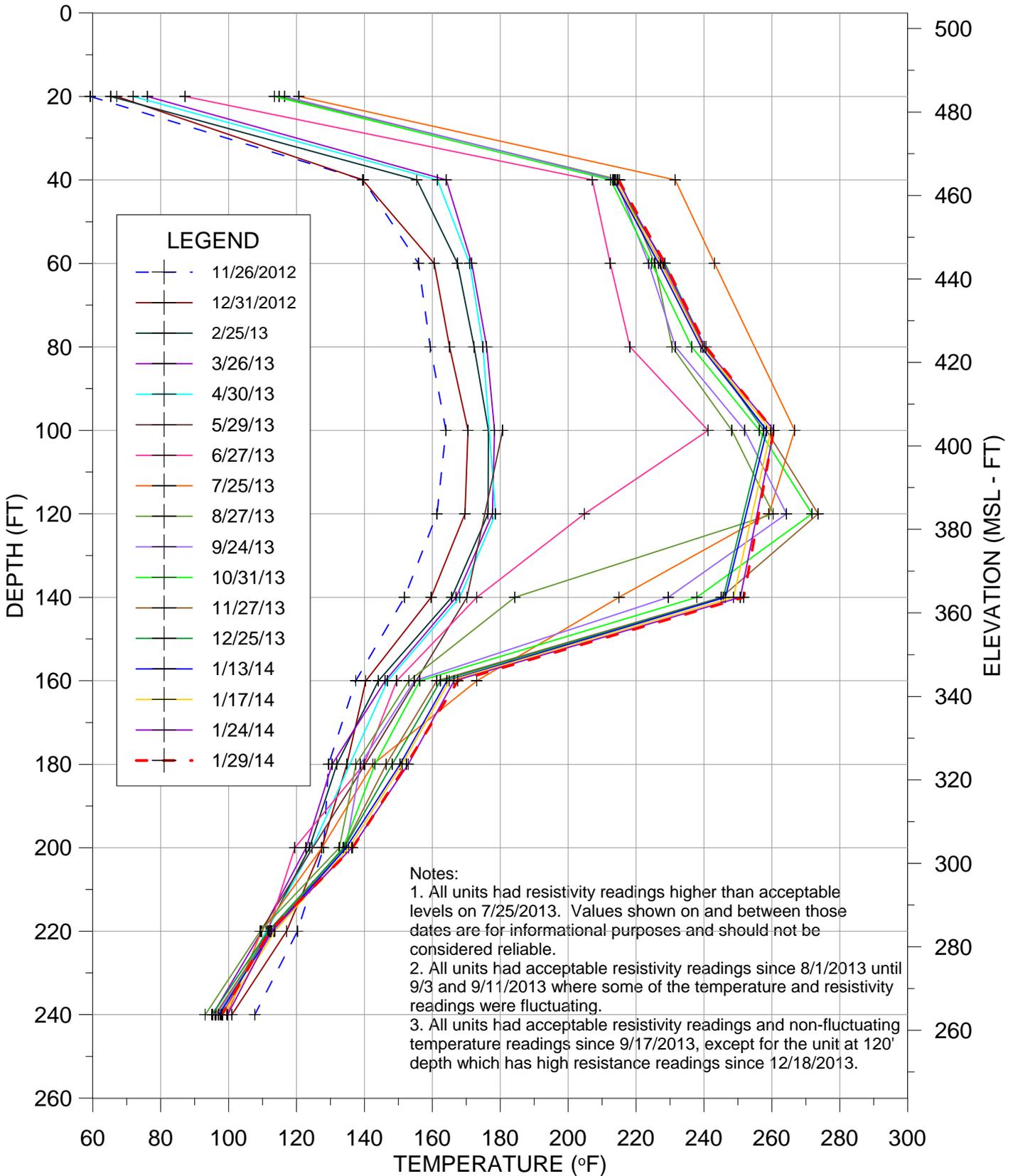


TMP-6



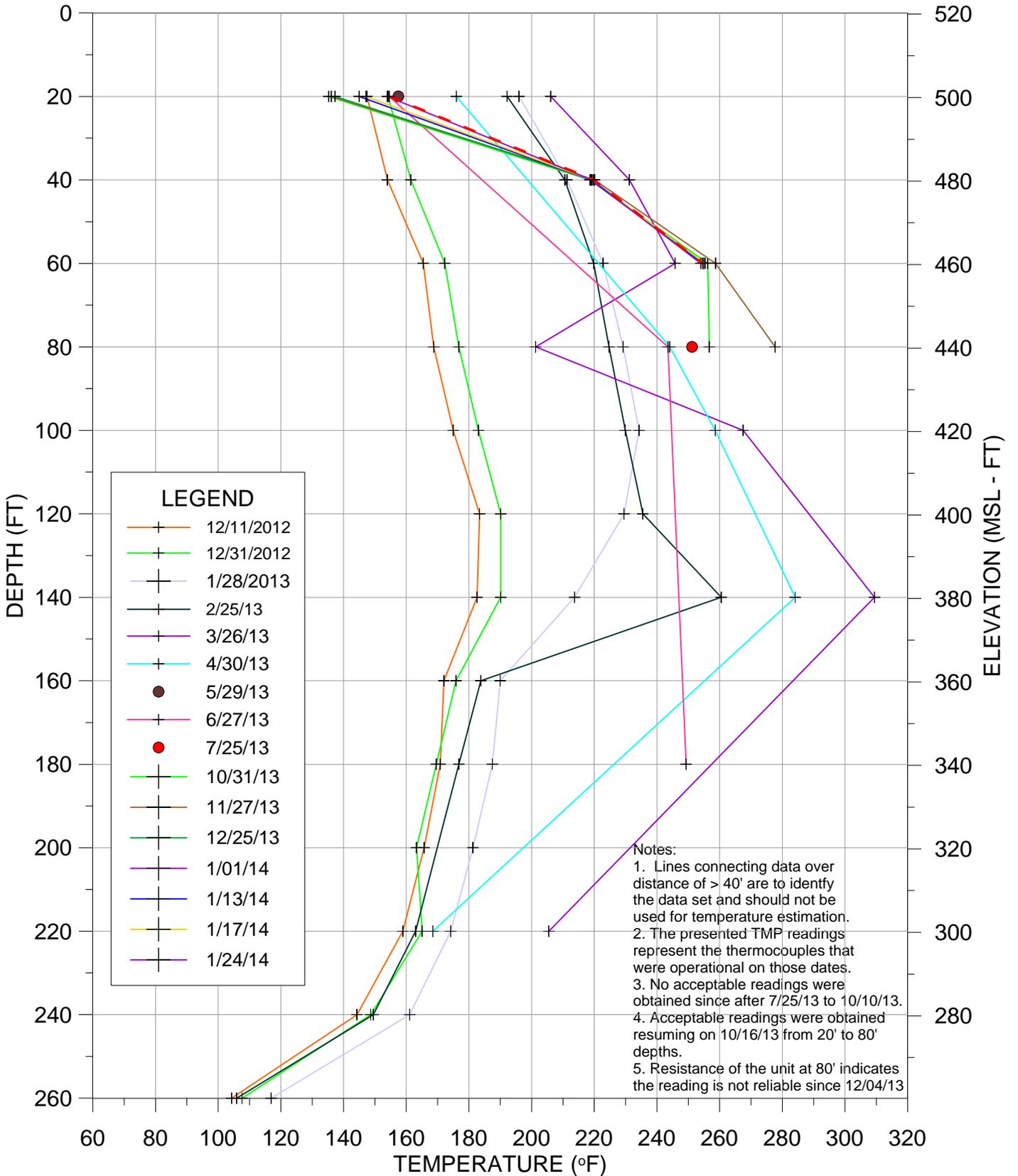
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-7R



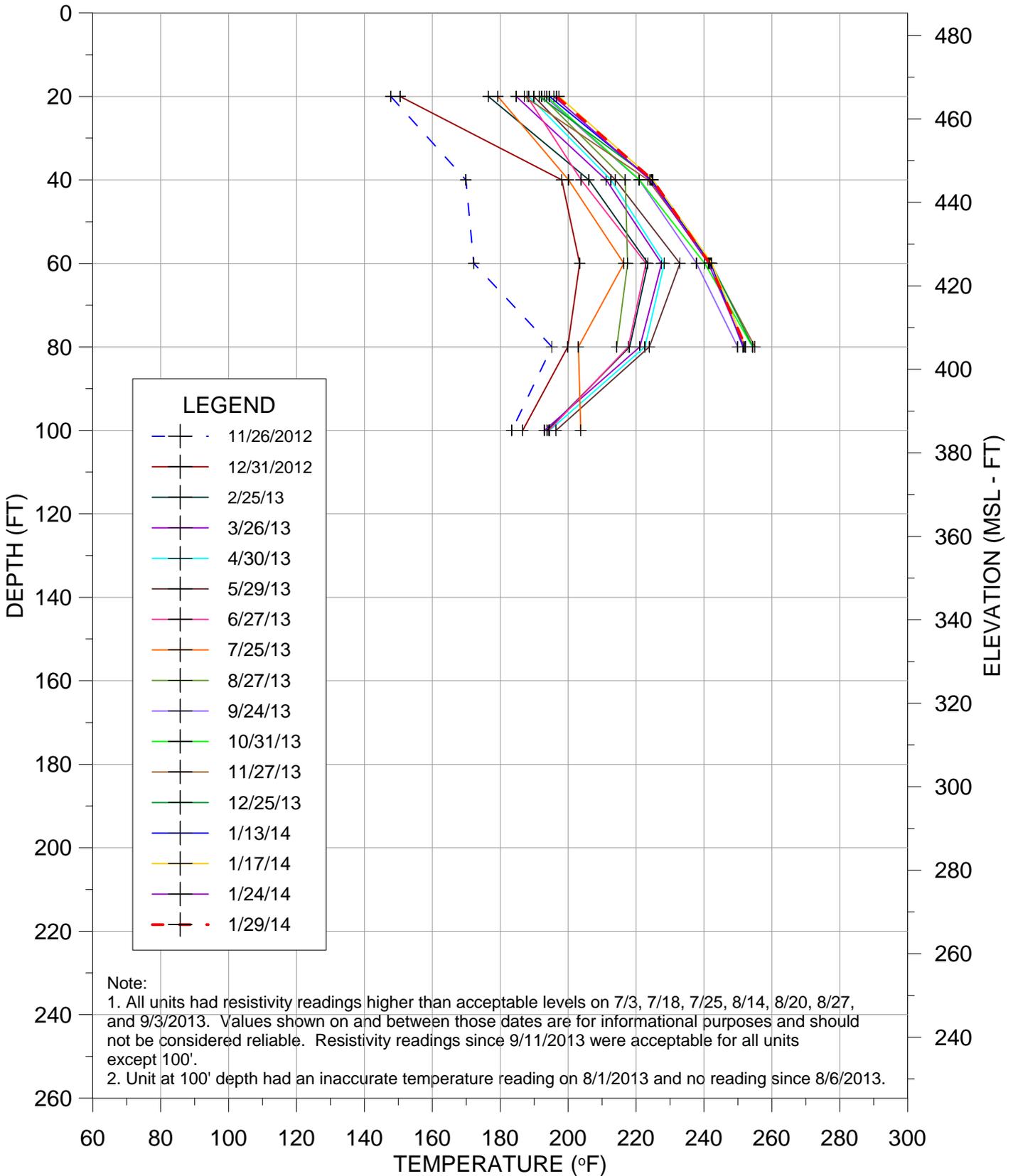
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-8



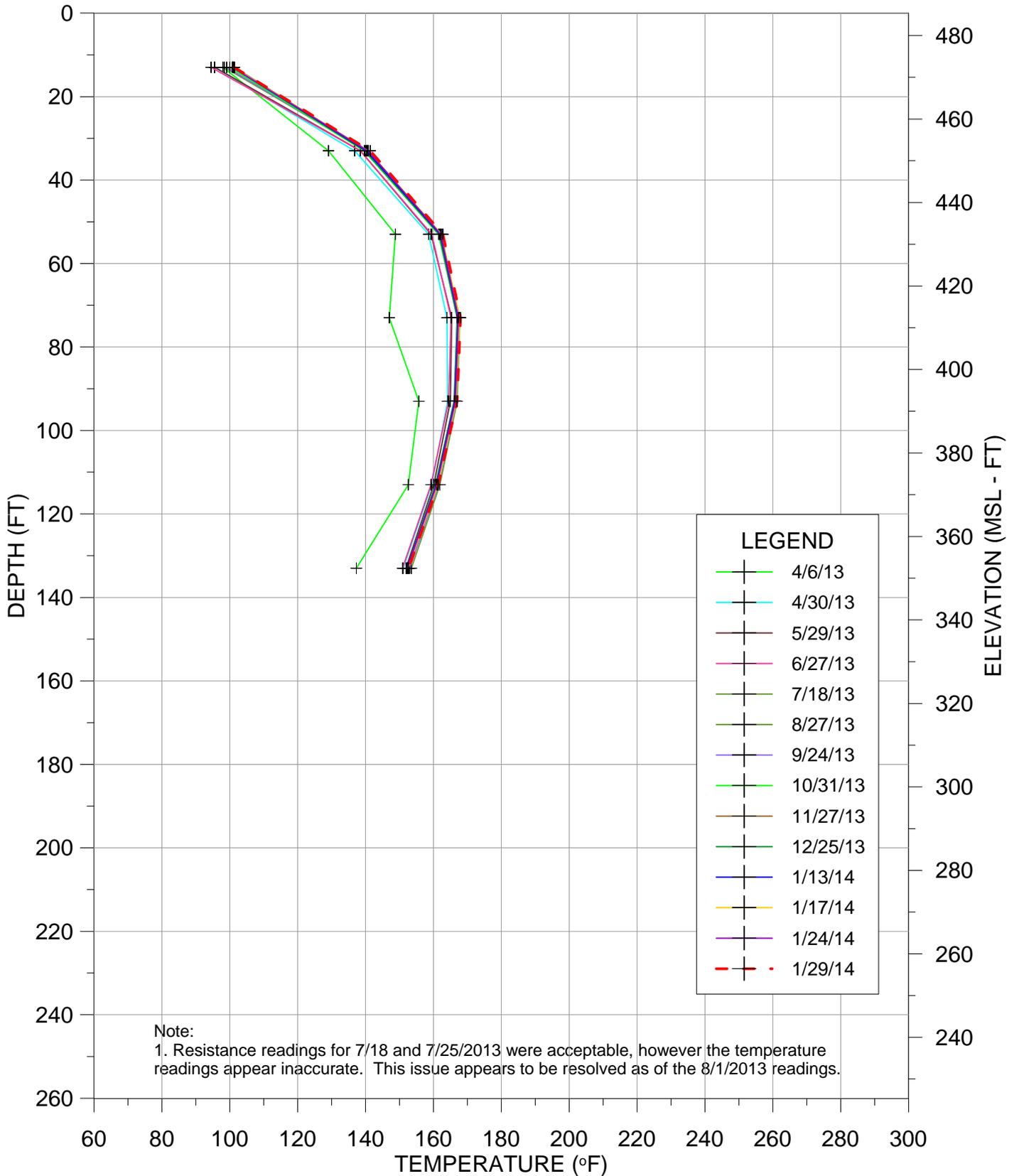
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-9



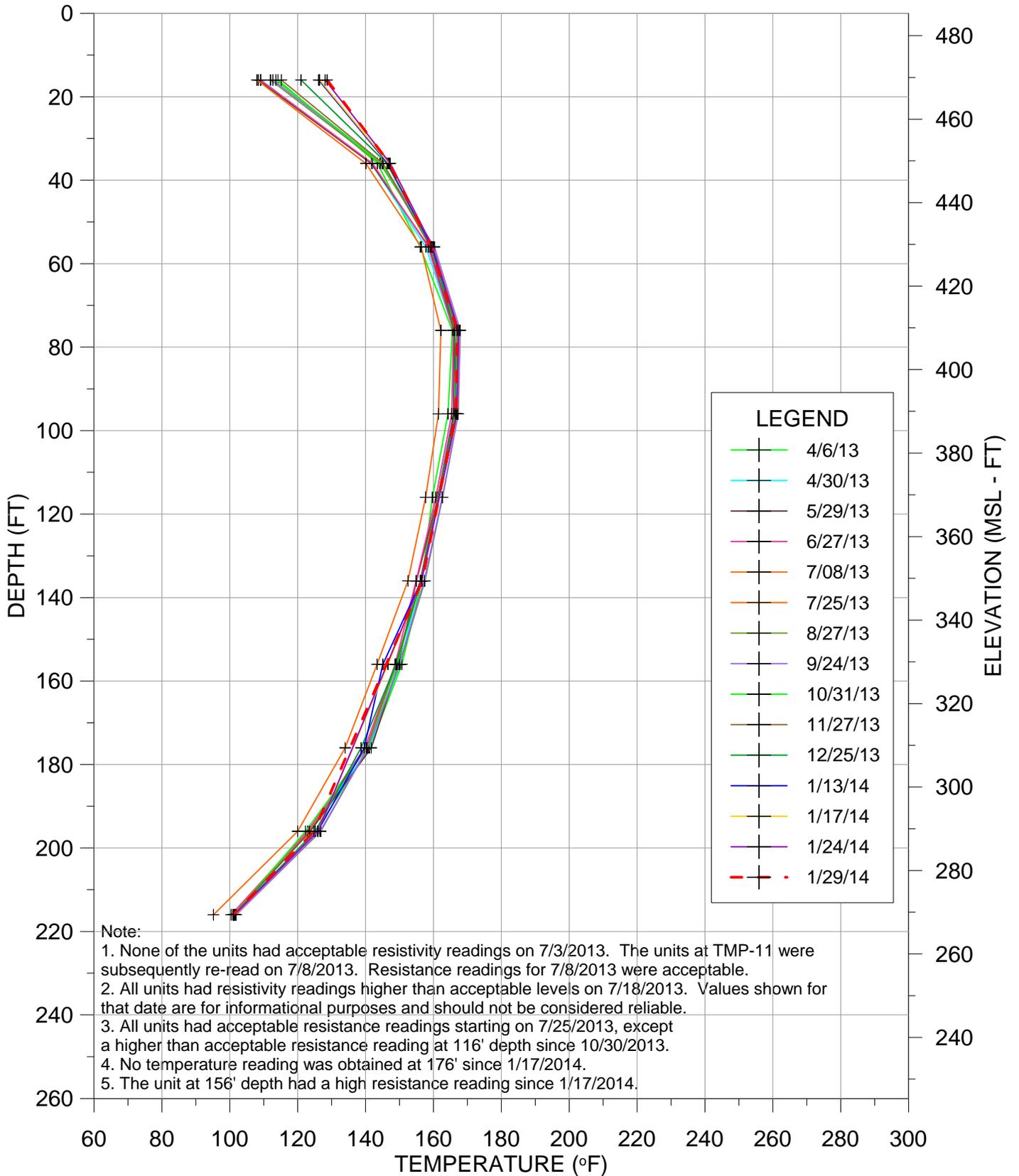
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-10



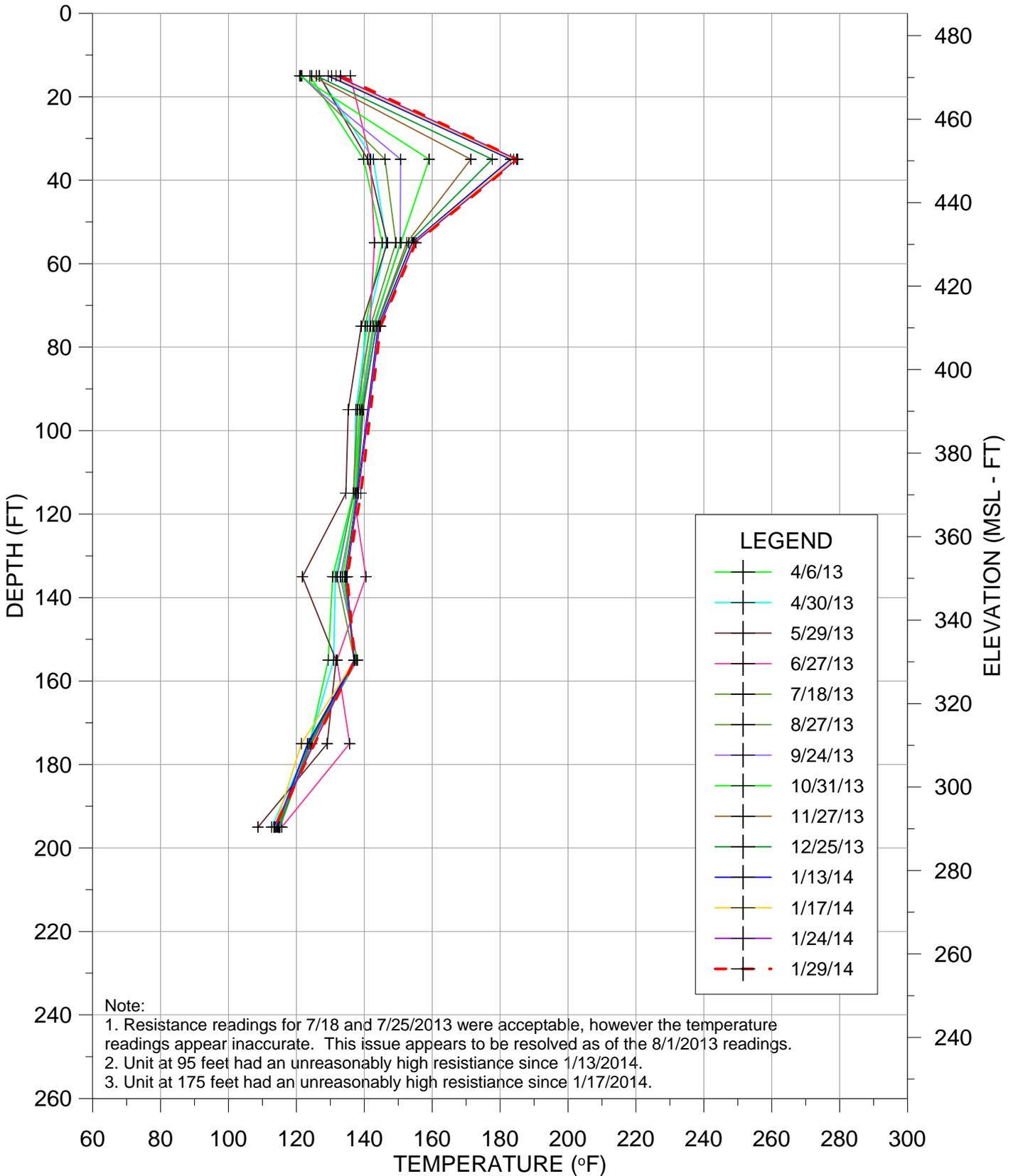
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-11



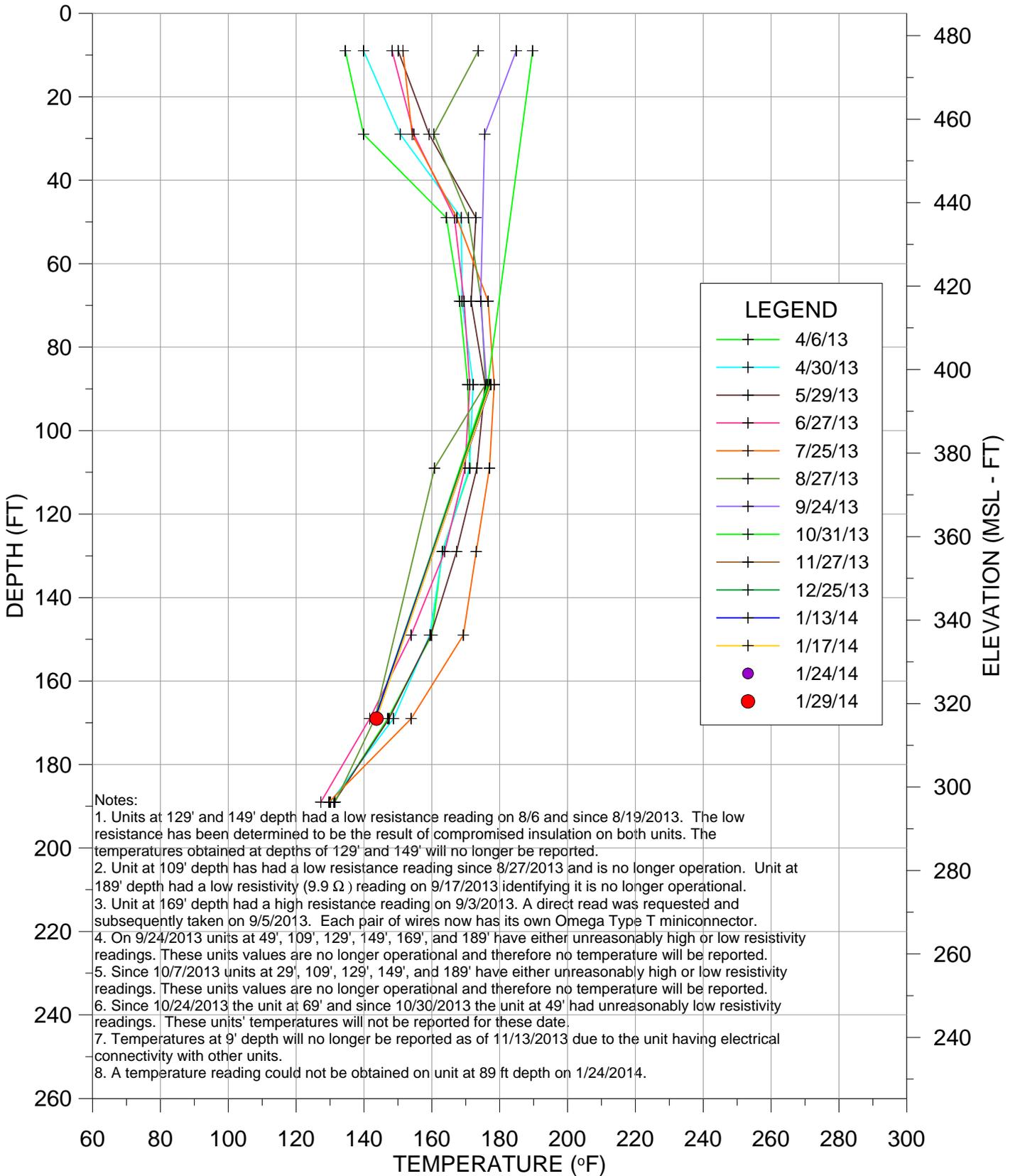
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-12



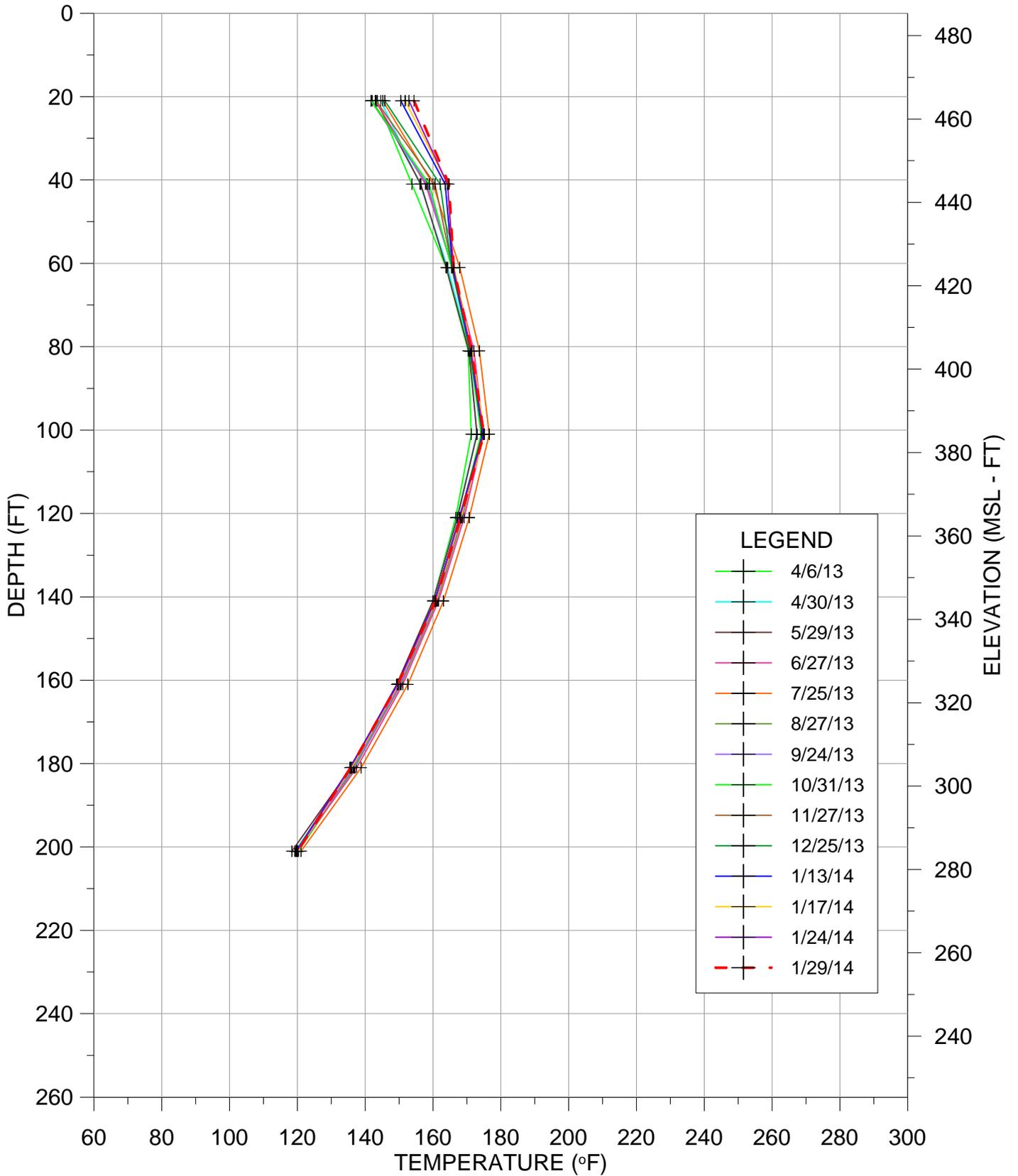
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-13



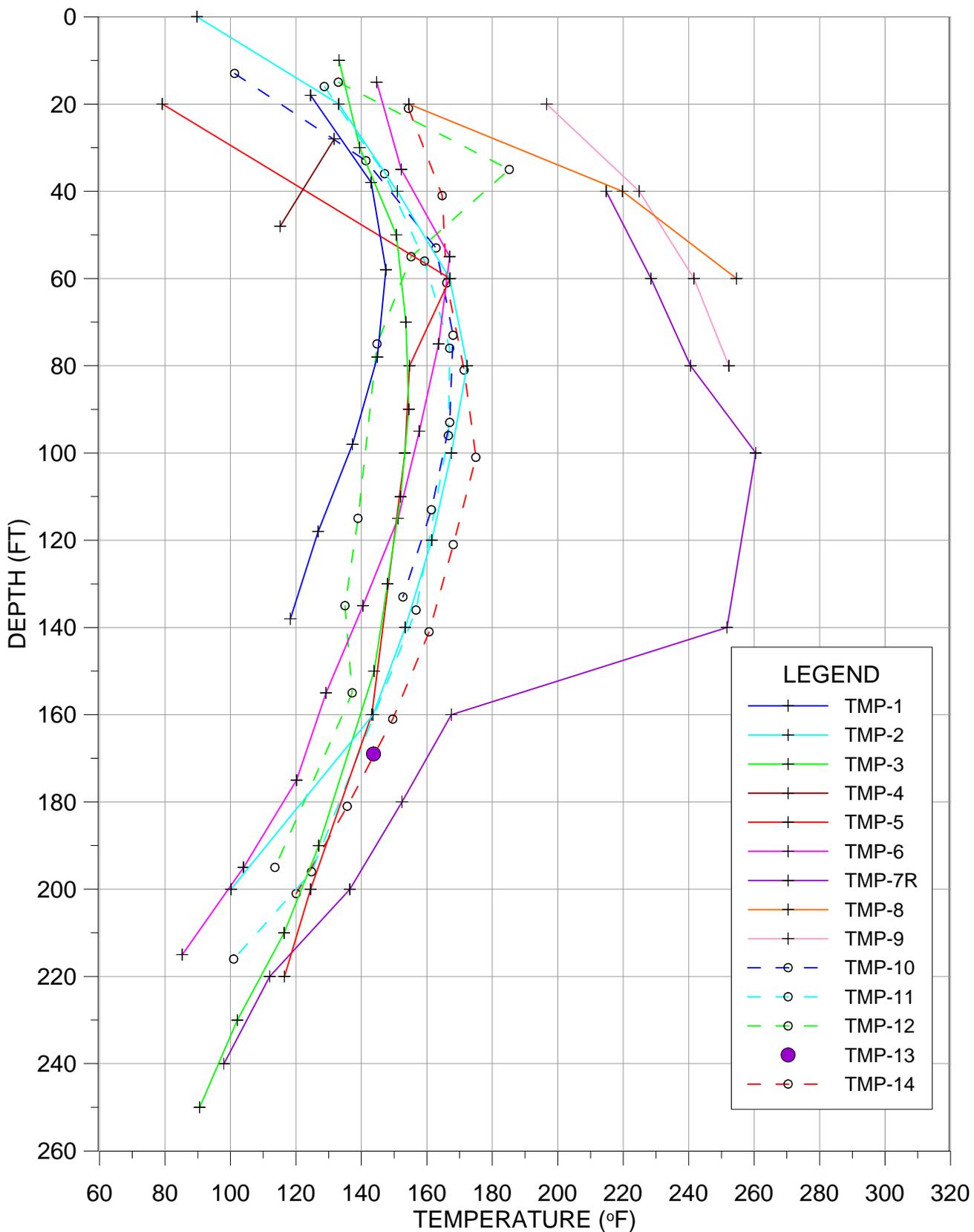
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-14



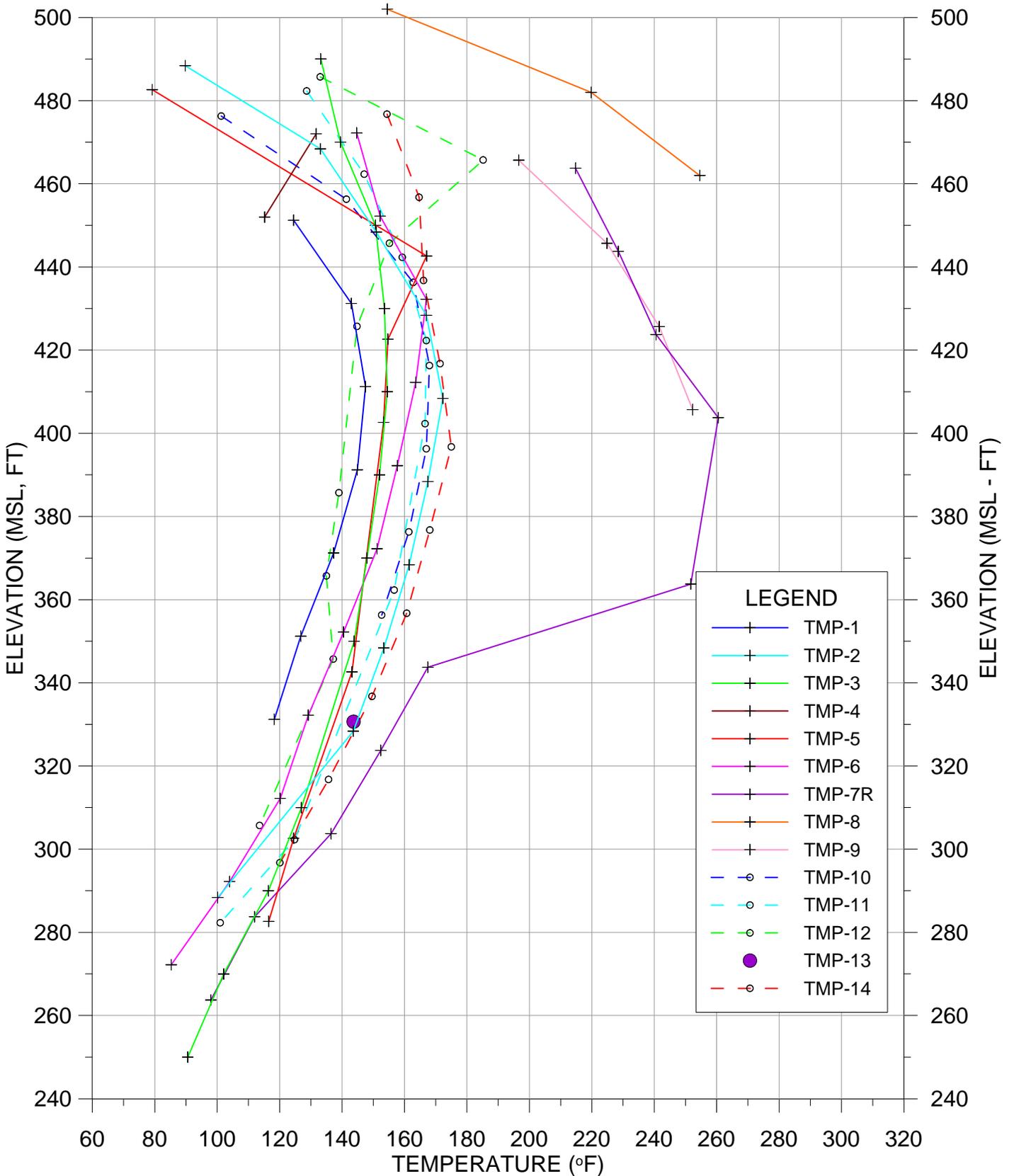
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

01/29/2014 -DEPTH



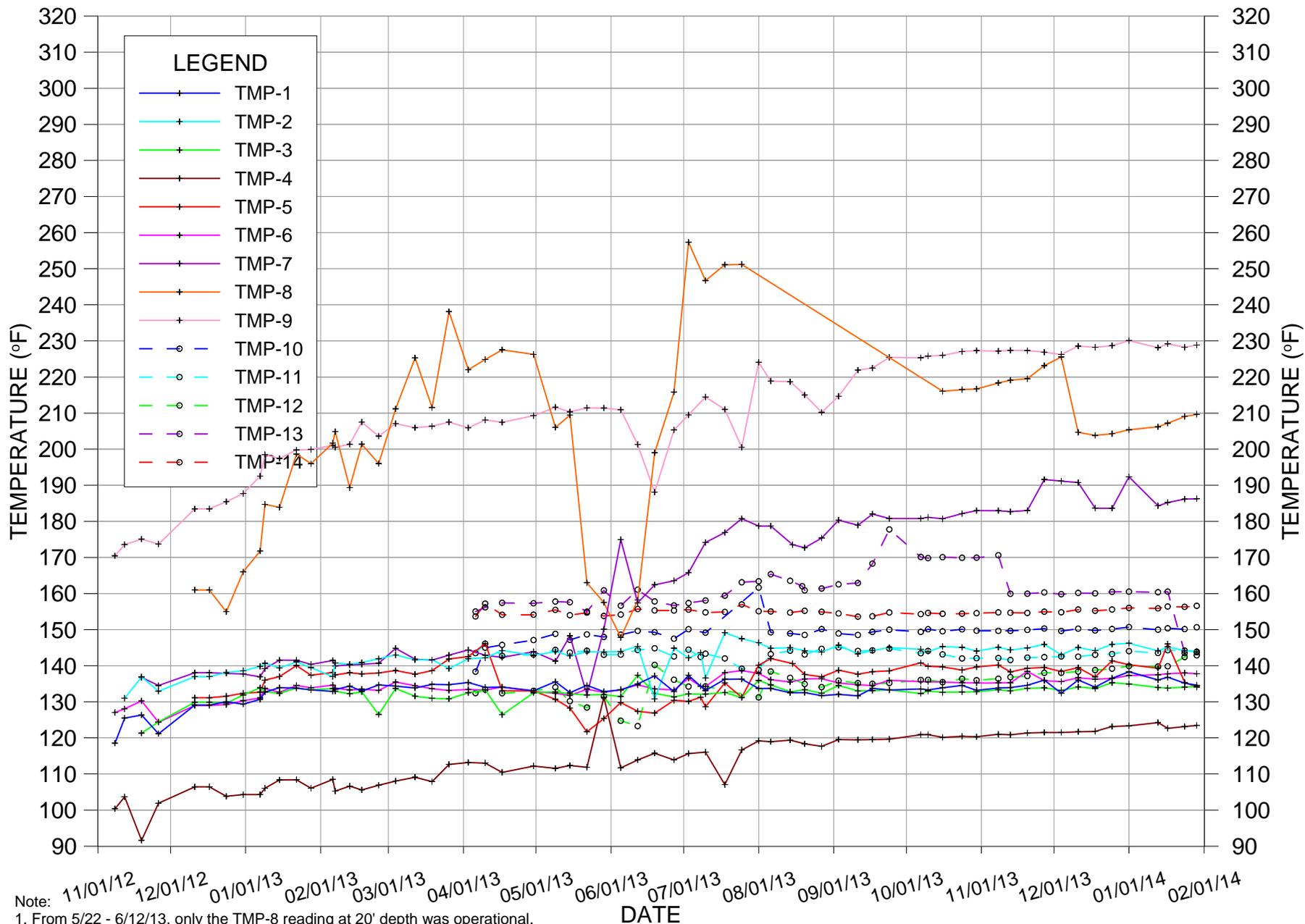
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

01/29/2014 - ELEVATION



TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

AVERAGE TEMPERATURES

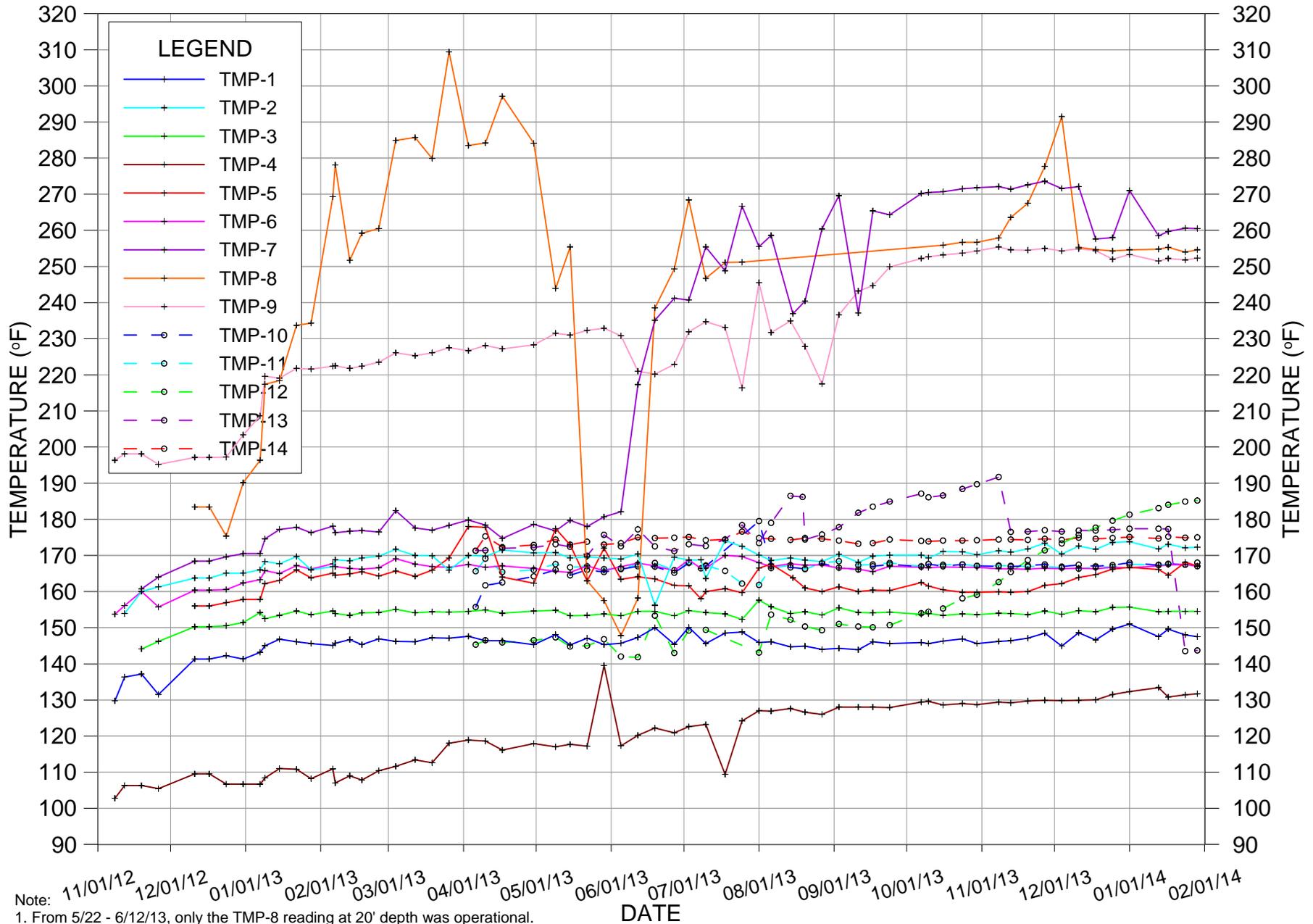


Note: 11/01/12 12/01/12 01/01/13 02/01/13 03/01/13 04/01/13 05/01/13 06/01/13 07/01/13 08/01/13 09/01/13 10/01/13 11/01/13 12/01/13 01/01/14 02/01/14

1. From 5/22 - 6/12/13, only the TMP-8 reading at 20' depth was operational.
No valid readings were obtained for TMP-8 from 8/1 to 10/10/2013. Valid readings from 20' to 40' resumed on 10/16/2013.
2. A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more valid readings.
3. No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.
4. End terminals were replaced just prior to the 8/6/2013 readings with type T Omega connectors (part # SMPW-CC-T-M) on all TMPs except for TMP-8.

**TEMPERATURE VS TIME
BRIDGETON LANDFILL**

MAXIMUM TEMPERATURES



Note: 11/01/12 12/01/12 01/01/13 02/01/13 03/01/13 04/01/13 05/01/13 06/01/13 07/01/13 08/01/13 09/01/13 10/01/13 11/01/13 12/01/13 01/01/14 02/01/14

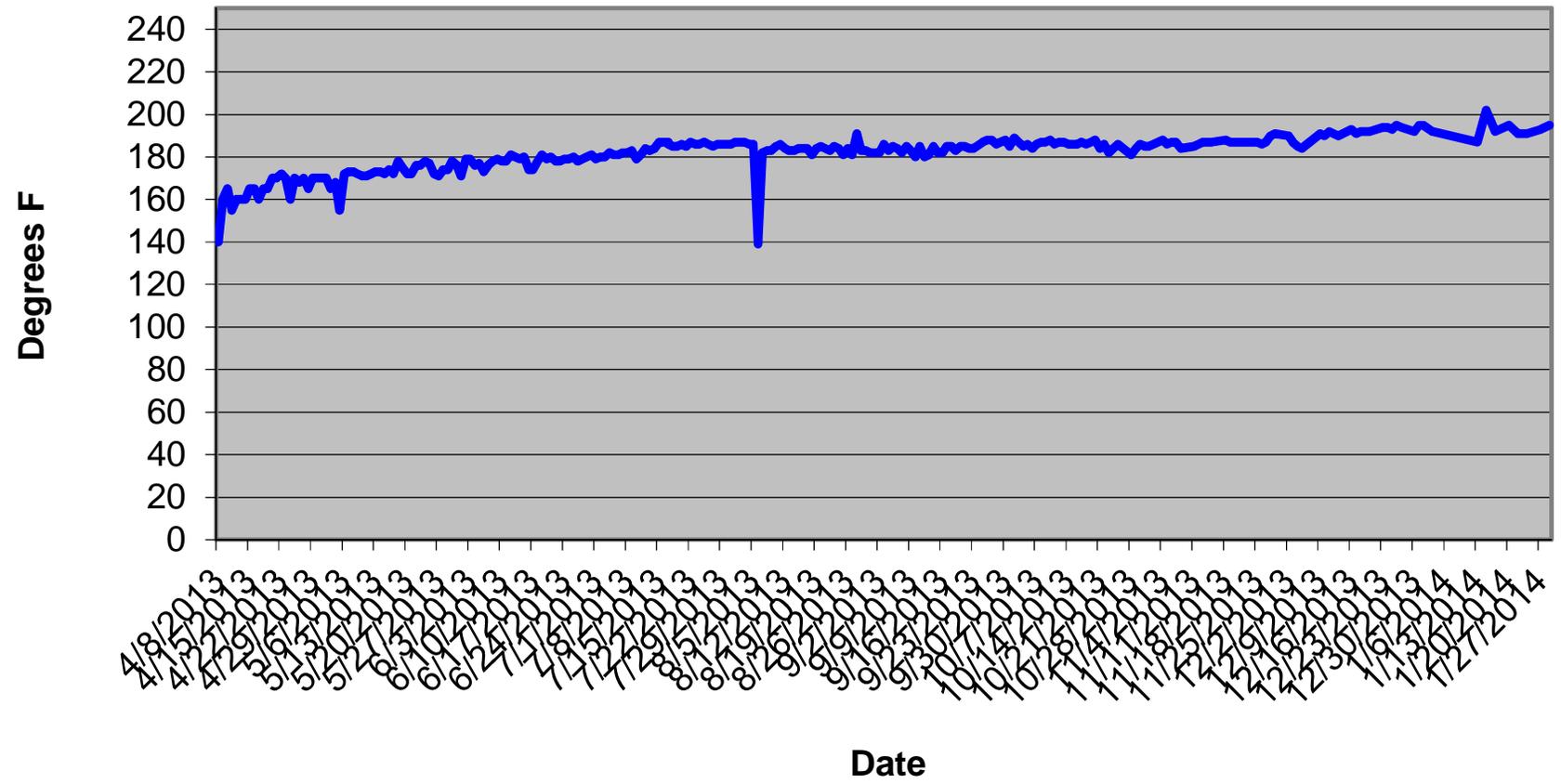
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TEMPERATURE VS TIME
BRIDGETON LANDFILL

ATTACHMENT C

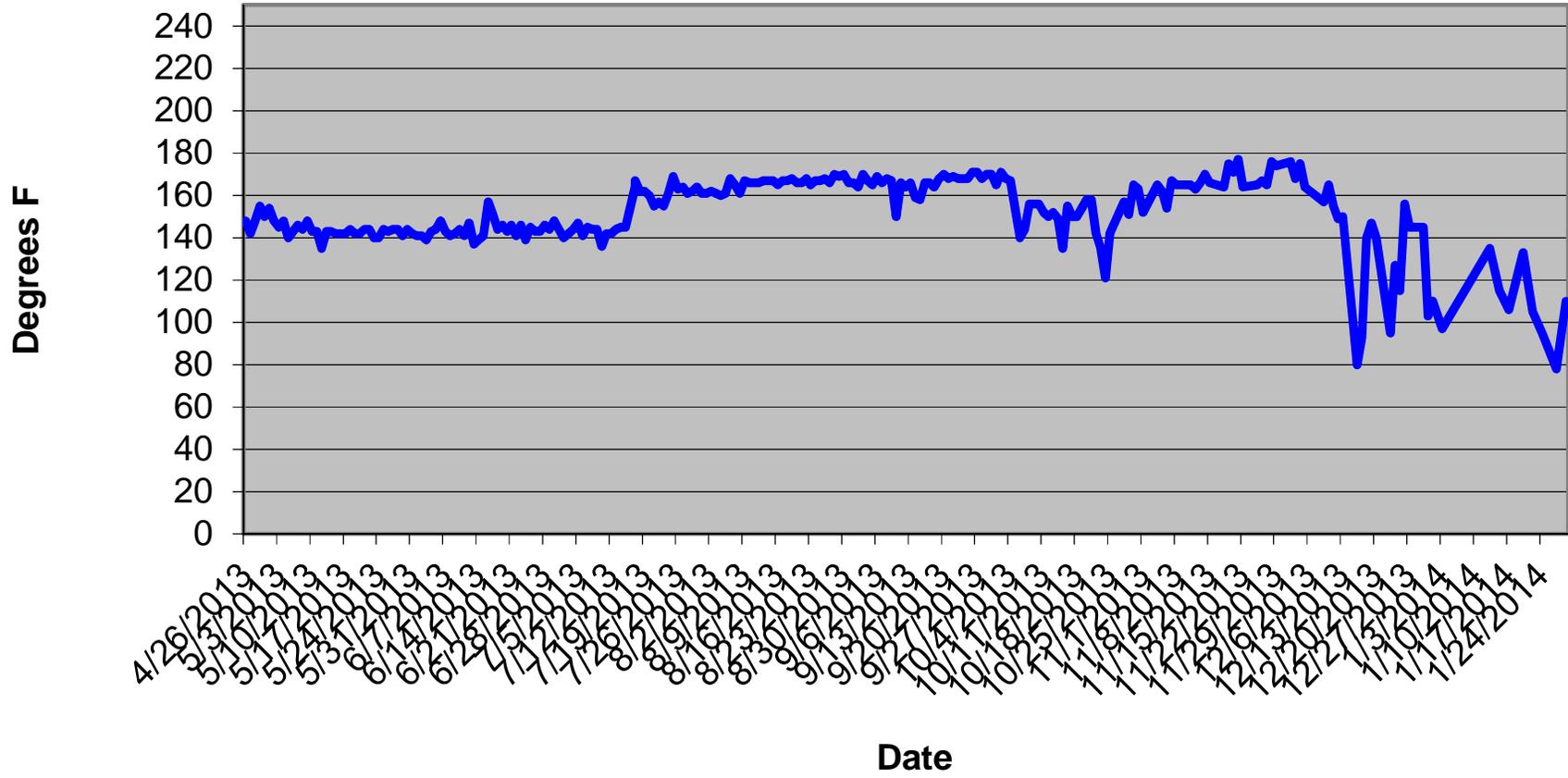
GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS

GIW-1 Wellhead Temperatures



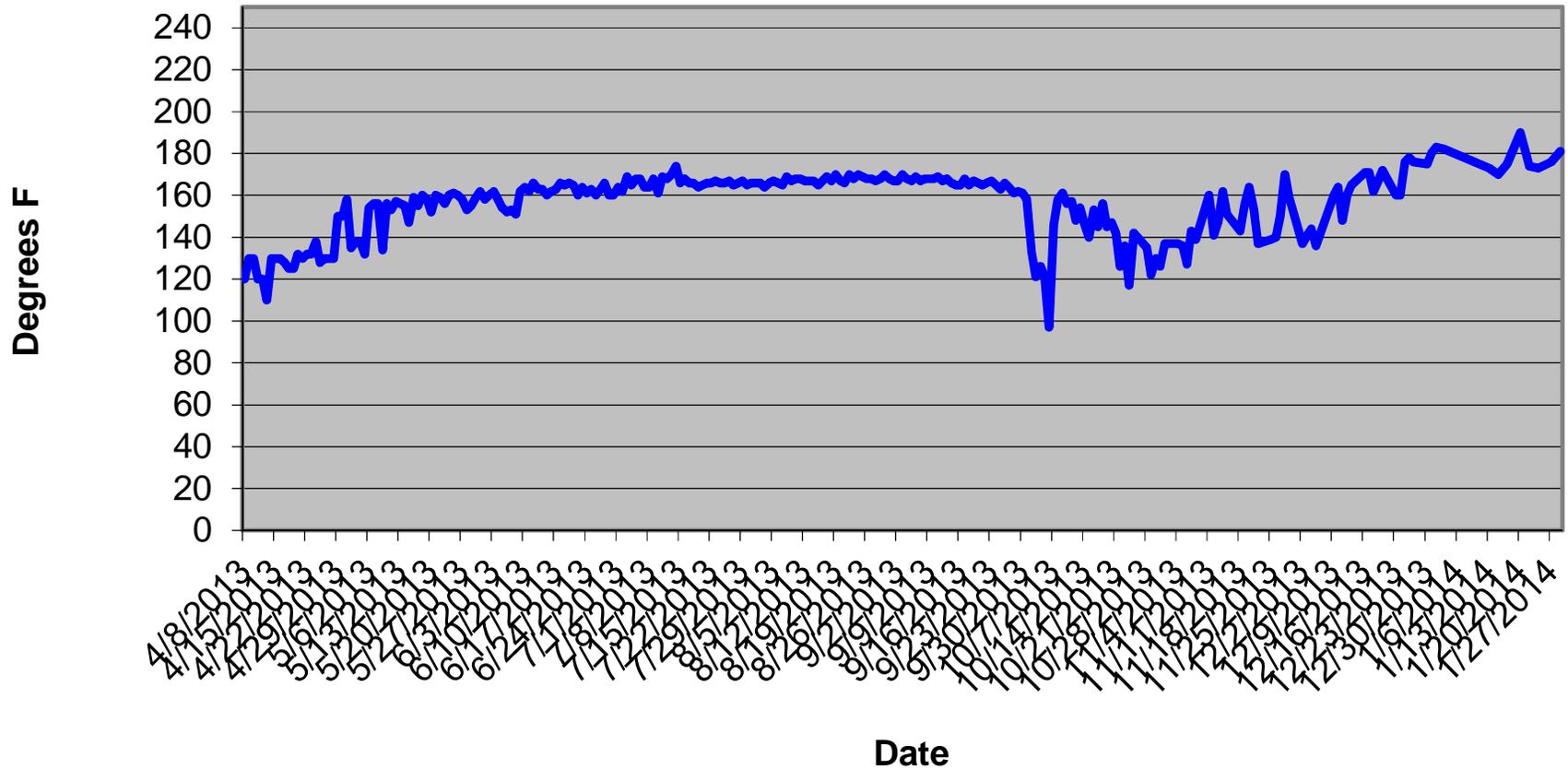
Wellhead Temp. (F)

GIW-2 Wellhead Temperatures



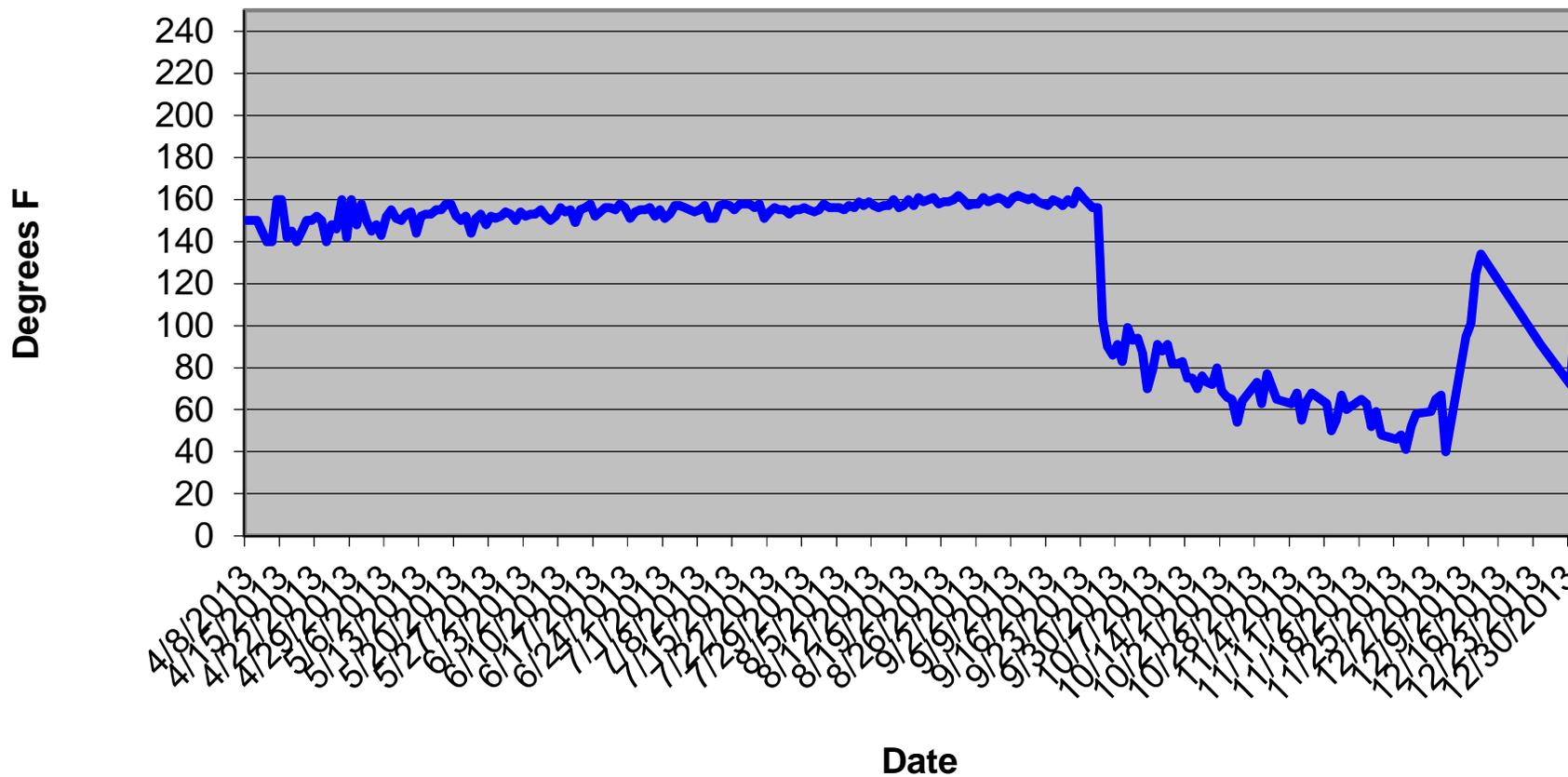
Series1

GIW-3 Wellhead Temperatures



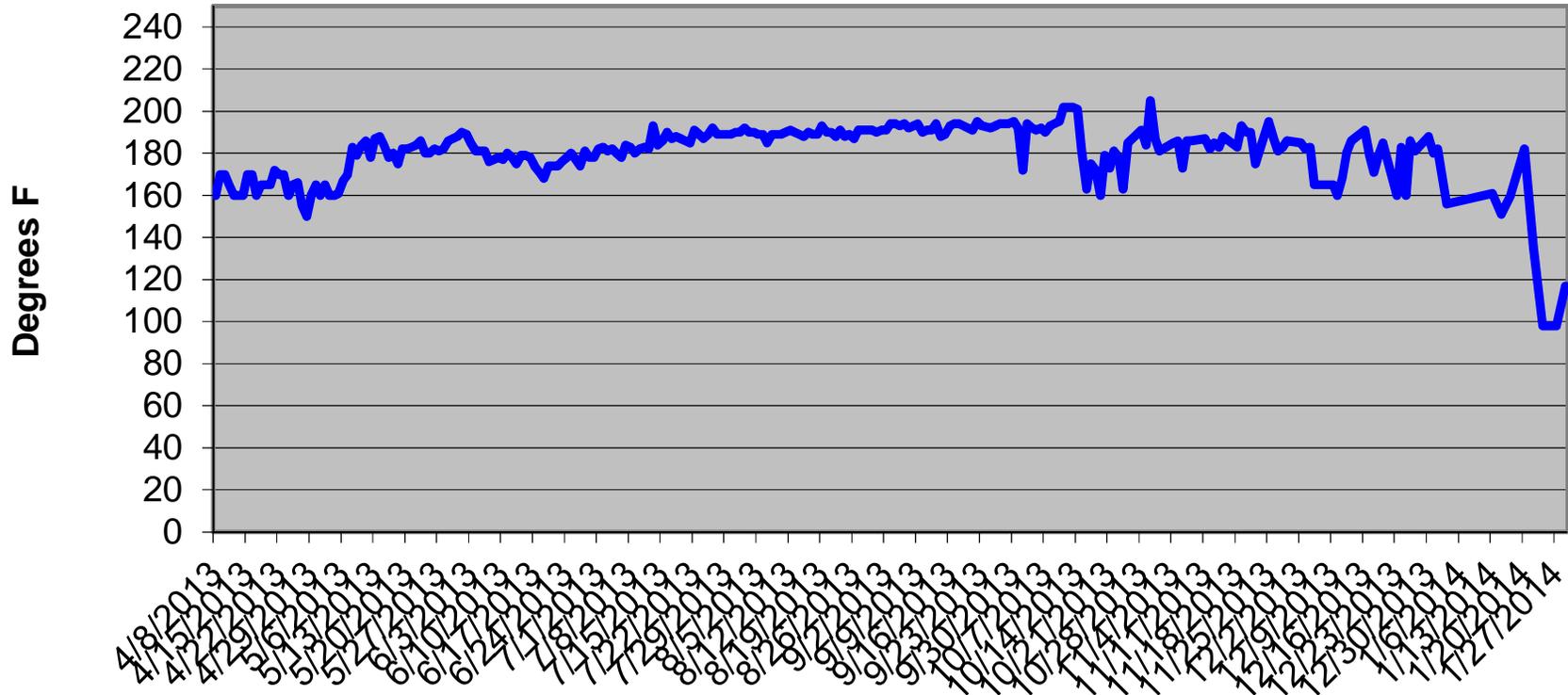
Wellhead Temp. (F)

GIW-4 Wellhead Temperatures



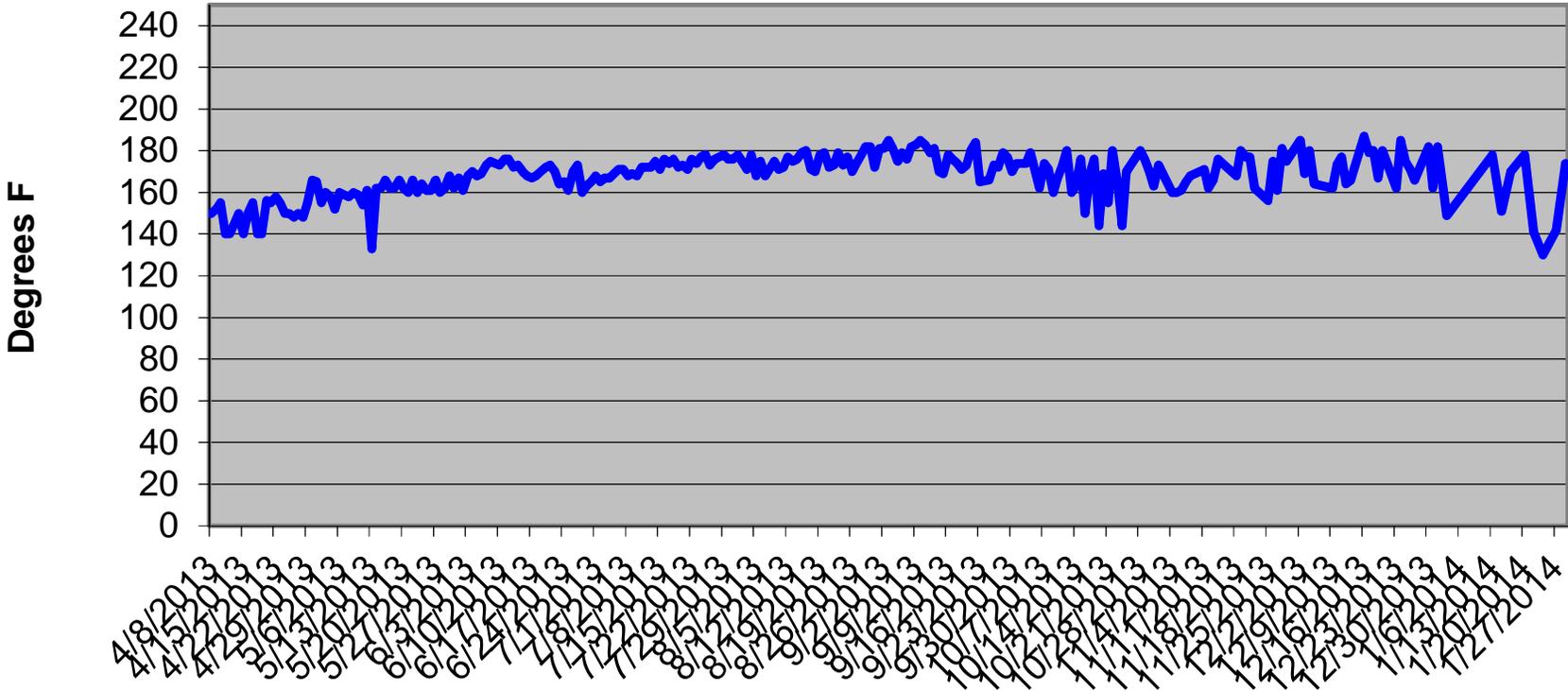
Wellhead Temp. (F)

GIW-5 Wellhead Temperatures



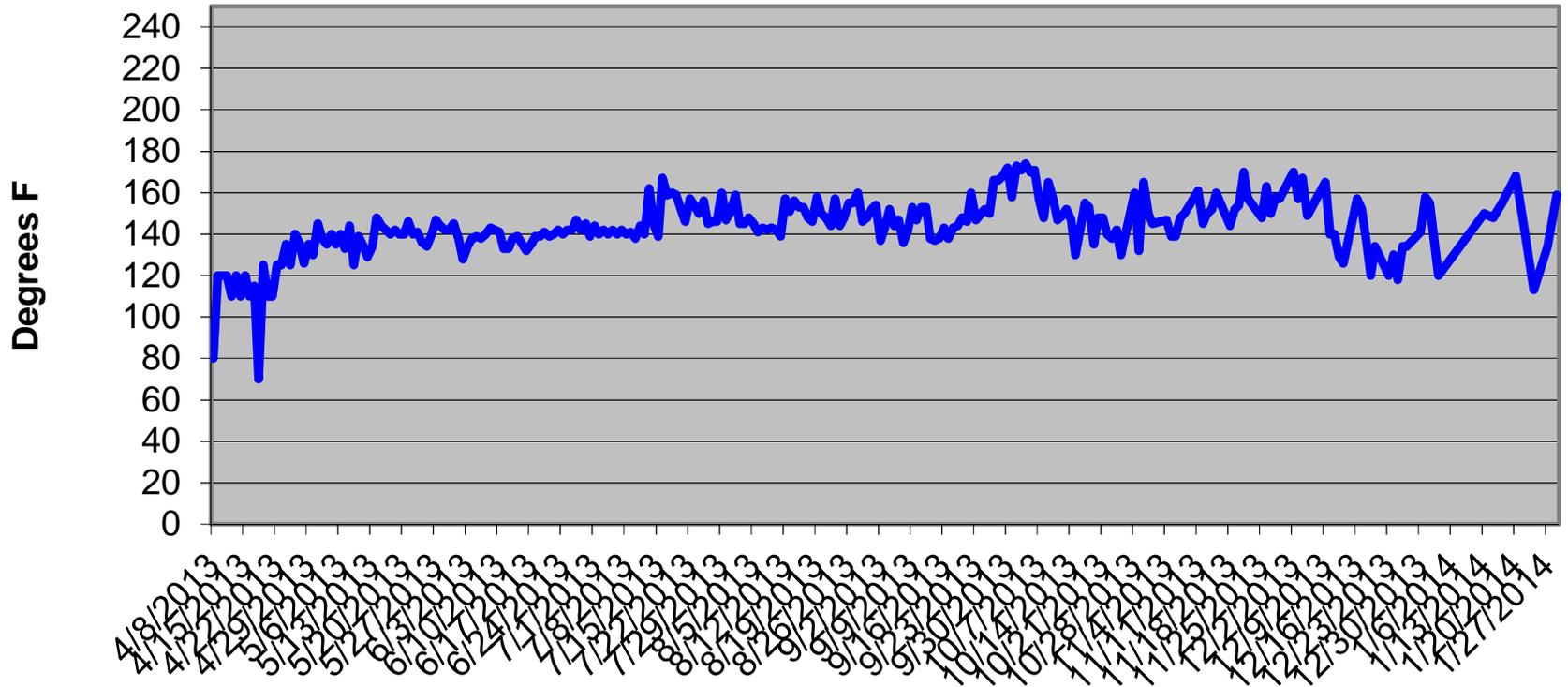
Wellhead Temp. (F)

GIW-6 Wellhead Temperatures



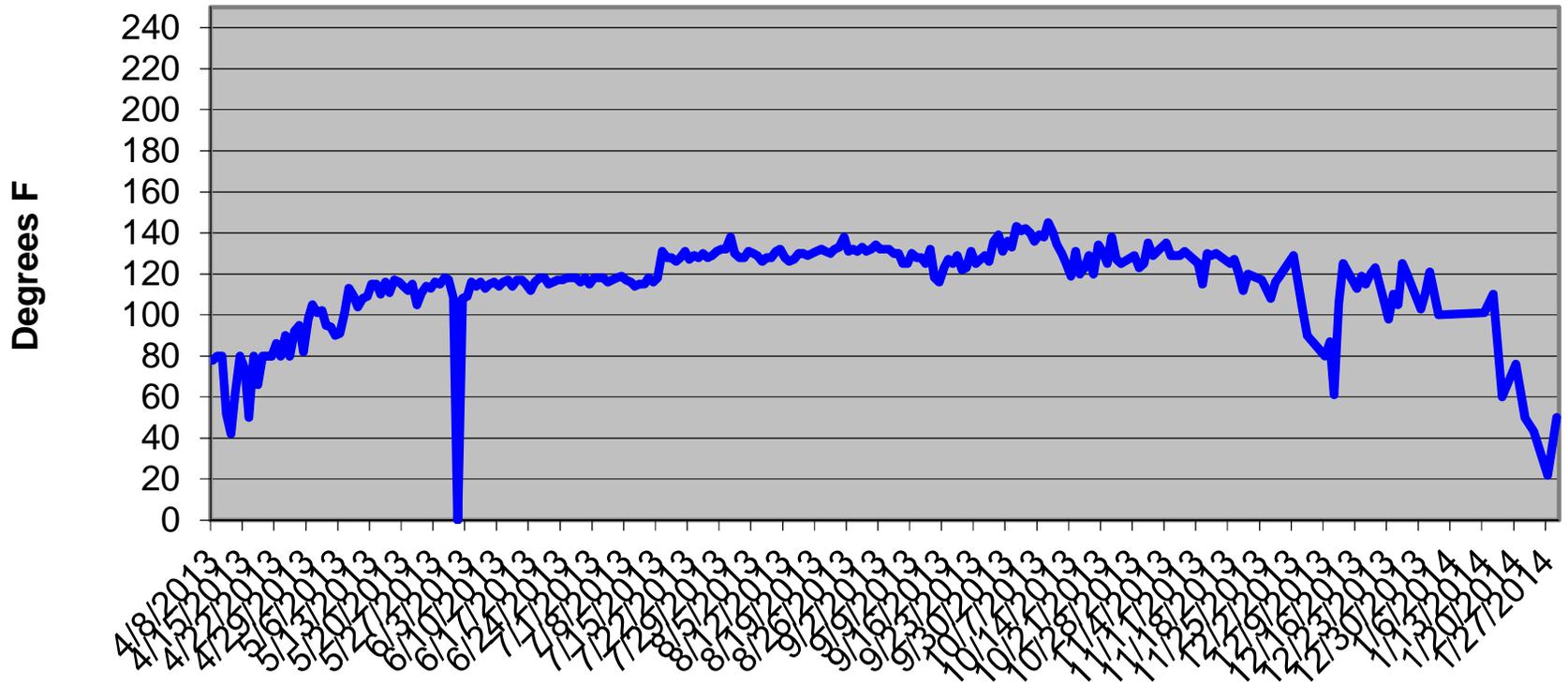
Wellhead Temp. (F)

GIW-7 Wellhead Temperatures



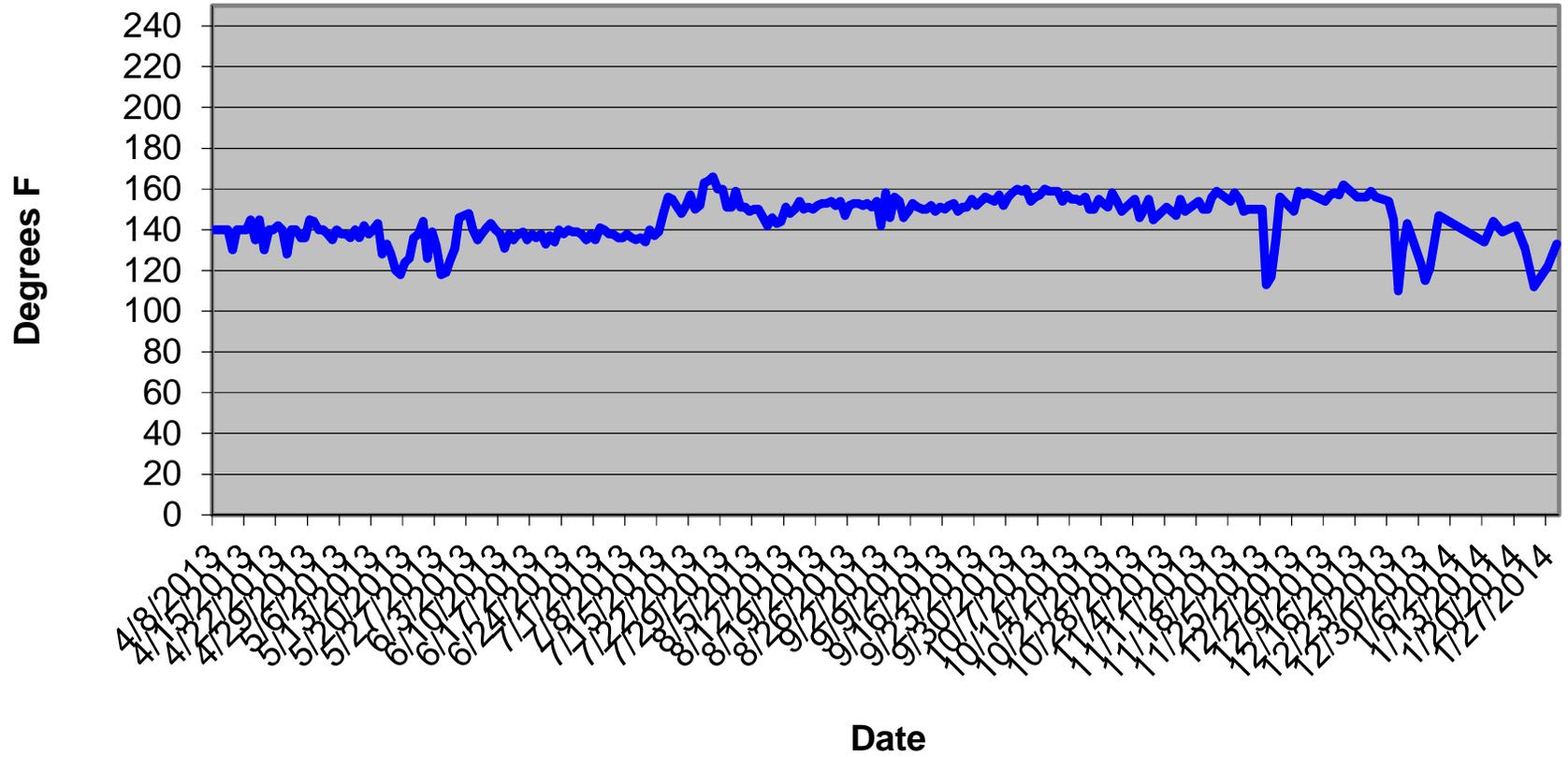
Wellhead Temp. (F)

GIW-8 Wellhead Temperatures



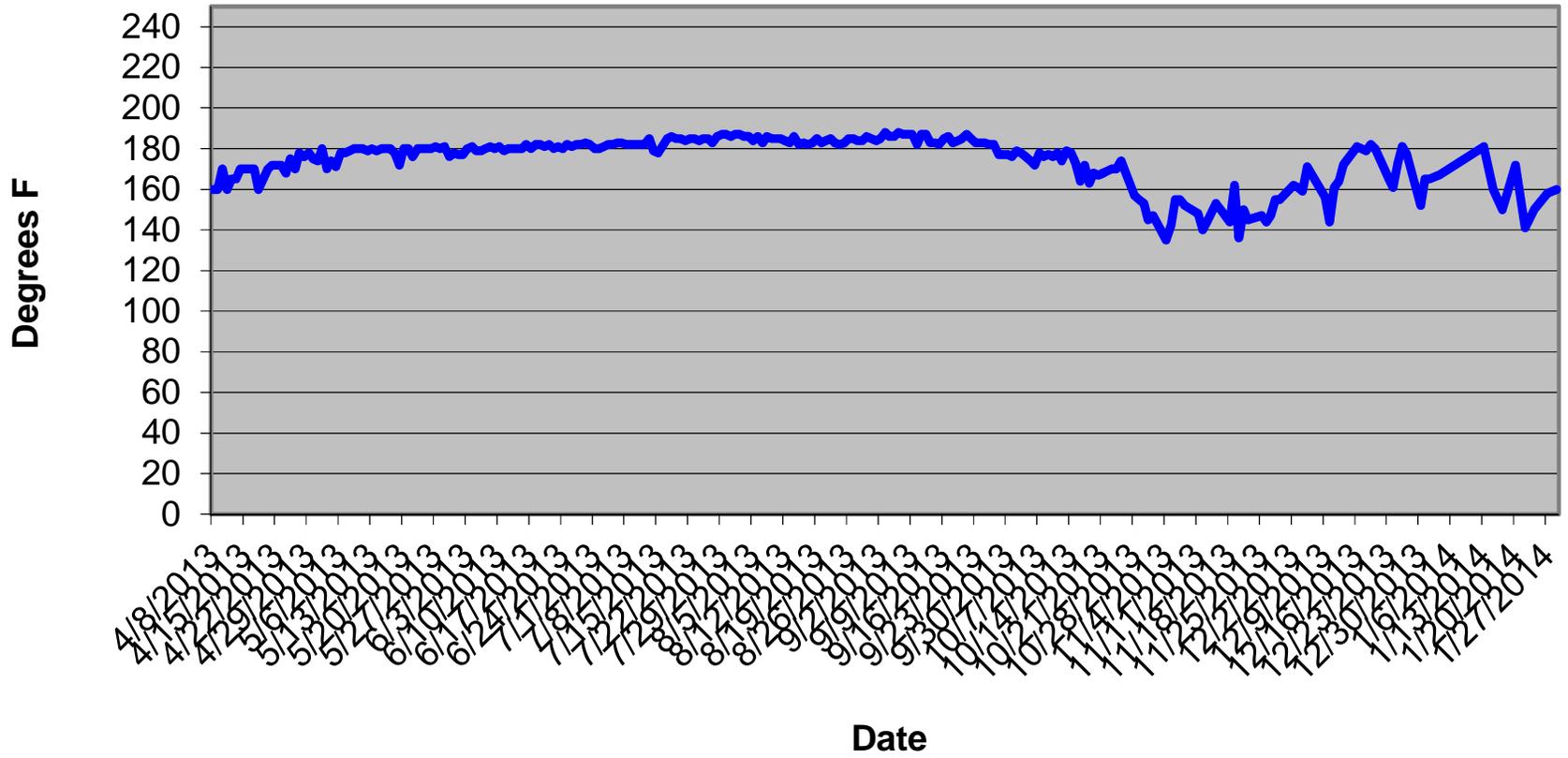
Wellhead Temp. (F)

GIW-9 Wellhead Temperatures



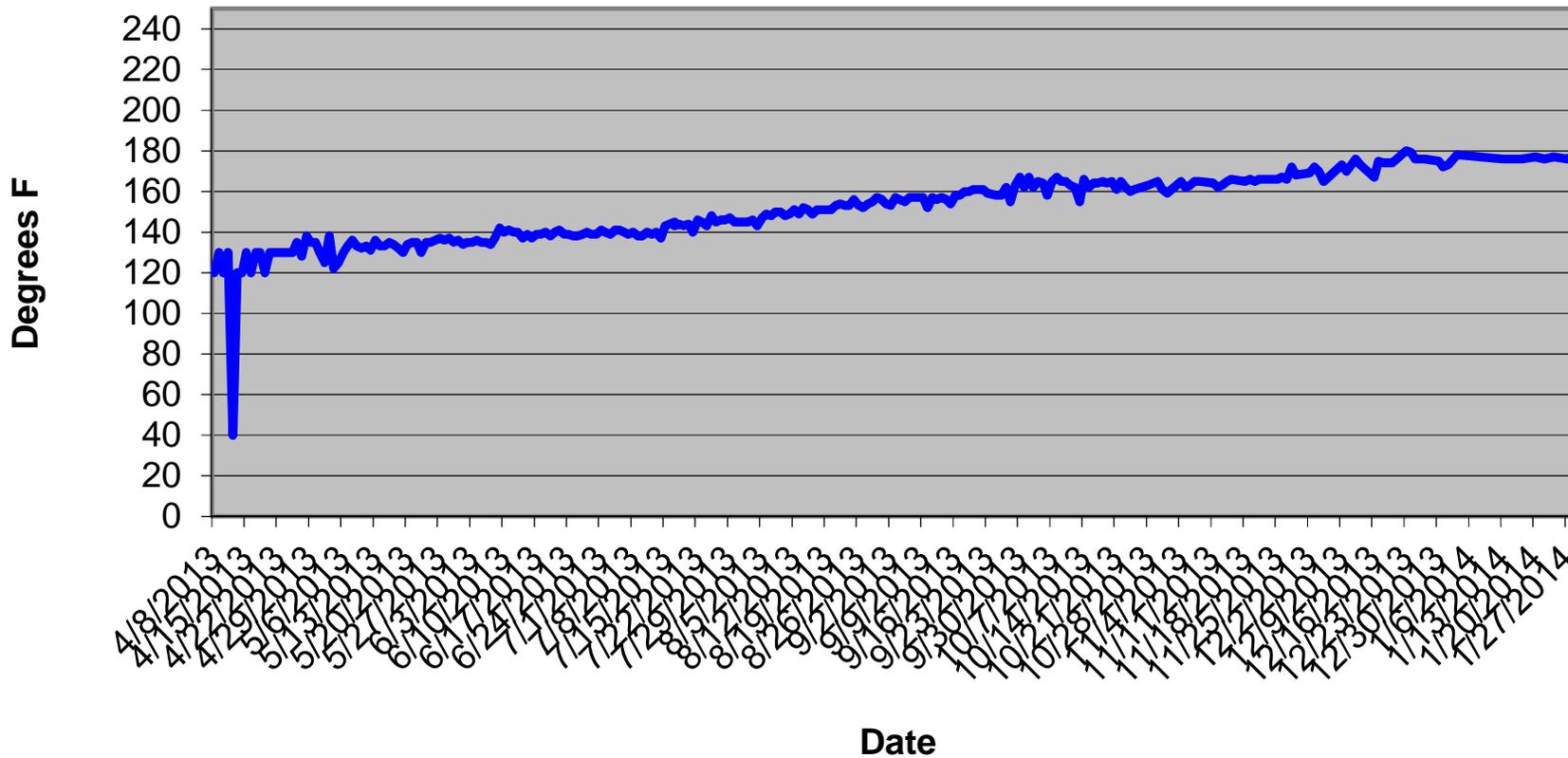
Wellhead Temp. (F)

GIW-10 Wellhead Temperatures



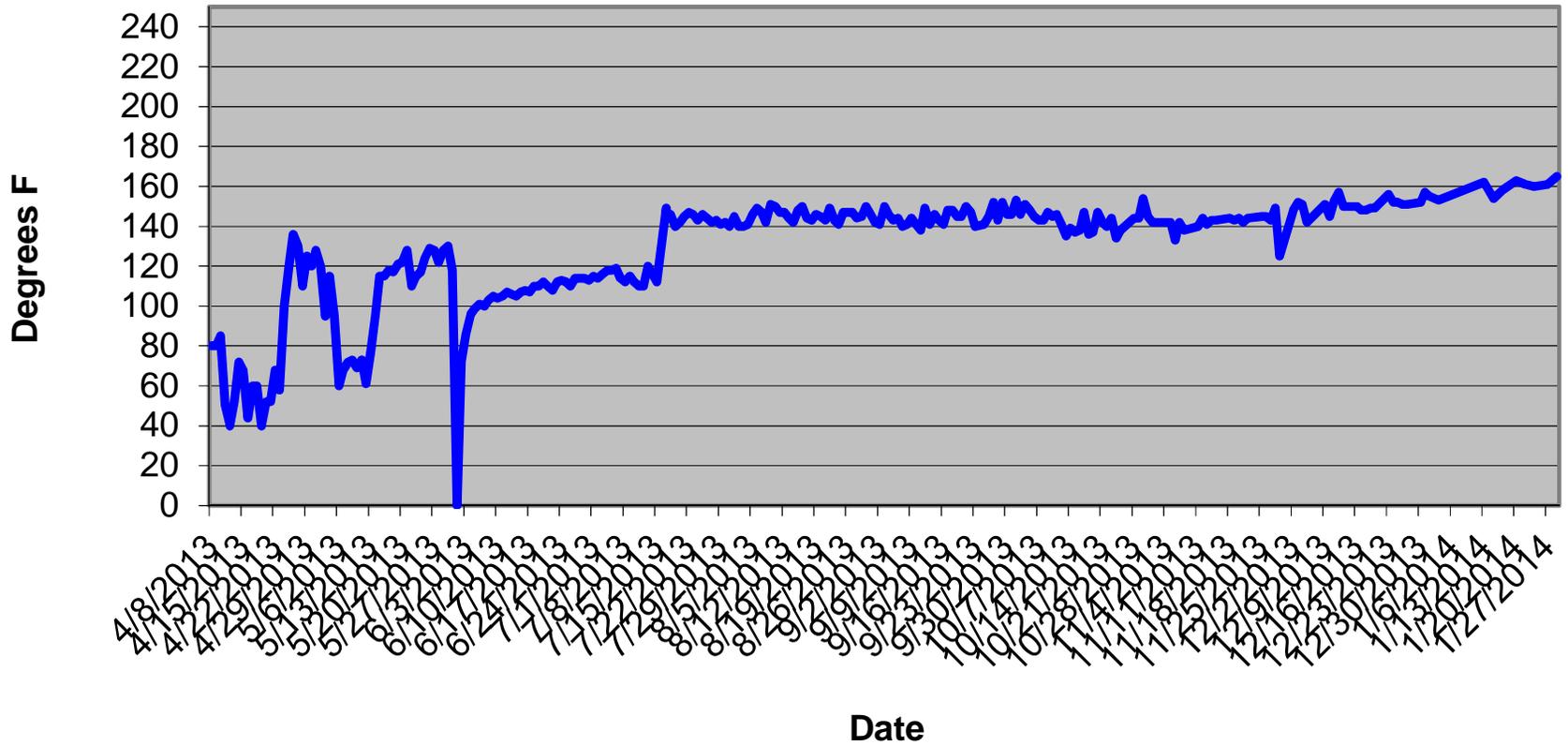
Wellhead Temp. (F)

GIW-11 Wellhead Temperatures



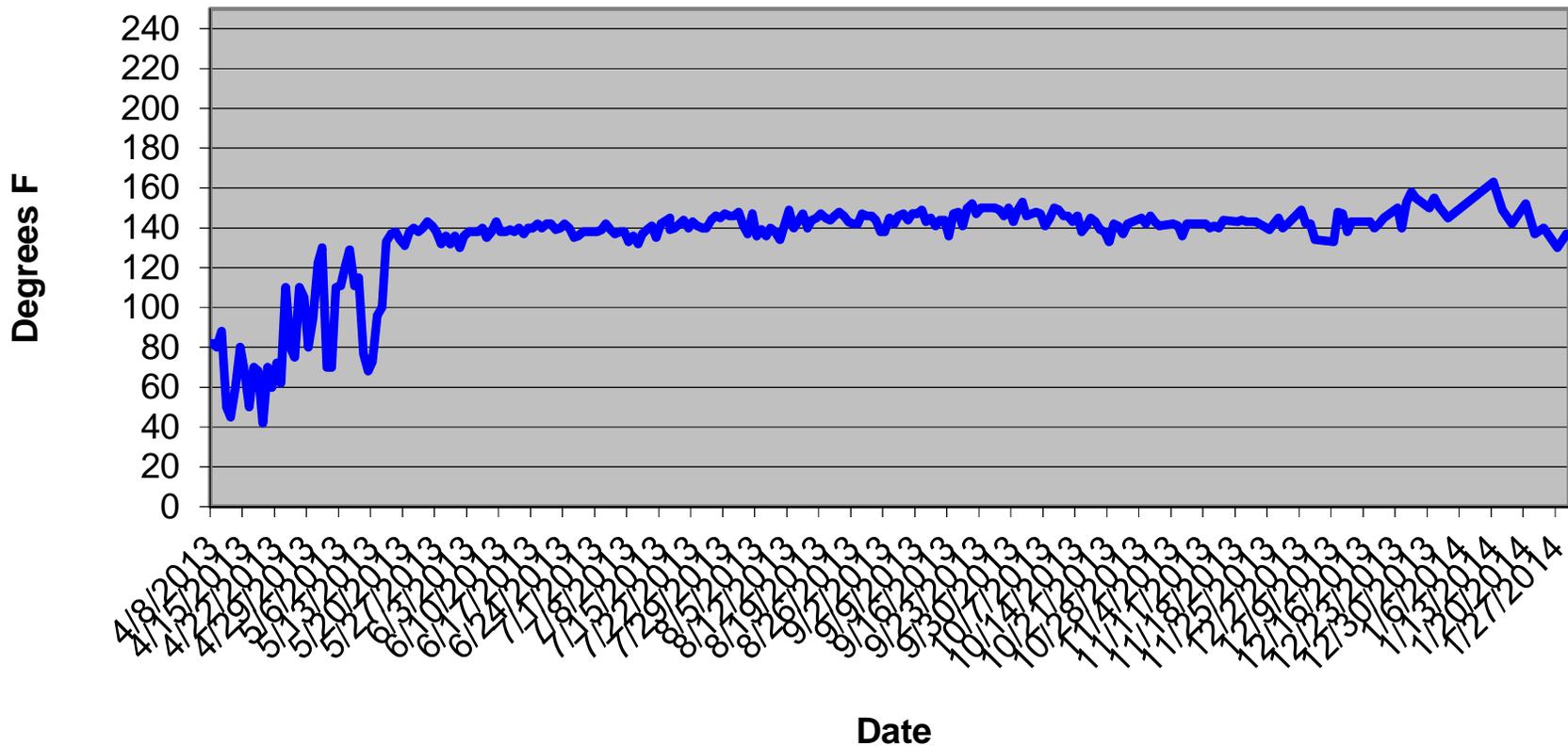
Wellhead Temp. (F)

GIW-12 Wellhead Temperatures



Wellhead Temp. (F)

GIW-13 Wellhead Temperatures



Wellhead Temp. (F)