

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**

April 22, 2014

Commentary on Data

Attachment A – Leachate Levels in Leachate Collection Sumps

LCS -1,-2,-3D -5, -6 were operational during the weekly reporting period.

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. Options for pumping from this location are currently under review.

The transducer in LCS-3D is currently not working. Measurement devices are currently being evaluated for use in LCS-3D and -1.

Temperature Monitoring Probe Analytical Charts

The following TMPs indicated consistent or lower temperature profiles than previous week(s): TMP-1,-2,-3,-4,-6,-7R,-8, -9, -10,-11 and -14.

The temperature measurement at 48' in TMP-4 was not successful. This point will be evaluated in the near future.

TMP -12 has shown slightly higher temperatures recently at shallow depths from the surface. The higher temperatures at these locations are scheduled for evaluation. The evaluation is scheduled to be completed this week. The thermocouple at 35 ft. of TMP-12 will be included in this evaluation.

Irregular resistivity readings appear to be attributed to the irregular resistivity in the thermocouples. This is prevalent at multiple depths within TMP-5 and -13. Consistent with MDNR's direction, the weekly reports exclude data that is not validated. TMP-5 and -13 have irregular resistivity at multiple depths recently, therefore these charts have not been included. The evaluation currently being completed includes both probe locations. Results are scheduled to be presented in the next weekly report.

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.

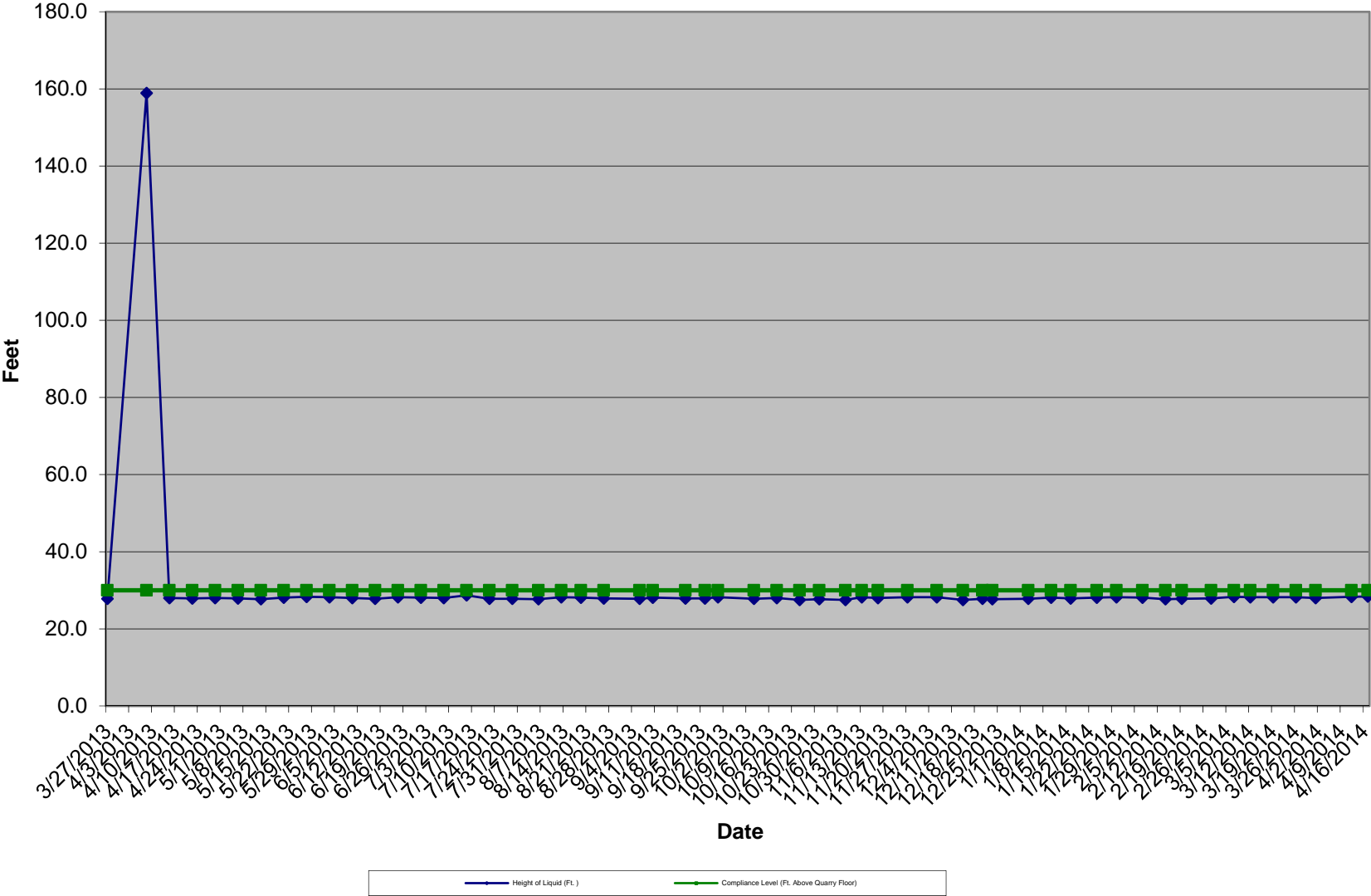
All gas interceptor wells remained relatively consistent or lower with regards to gas wellhead temperature measured at each location excluding GIW-9. GIW-9 showed a slight increase in wellhead temperature over the last few weeks.

The water circulation cooling loop is currently installed in GIW-4. The cooling loop was operational during the reporting period.

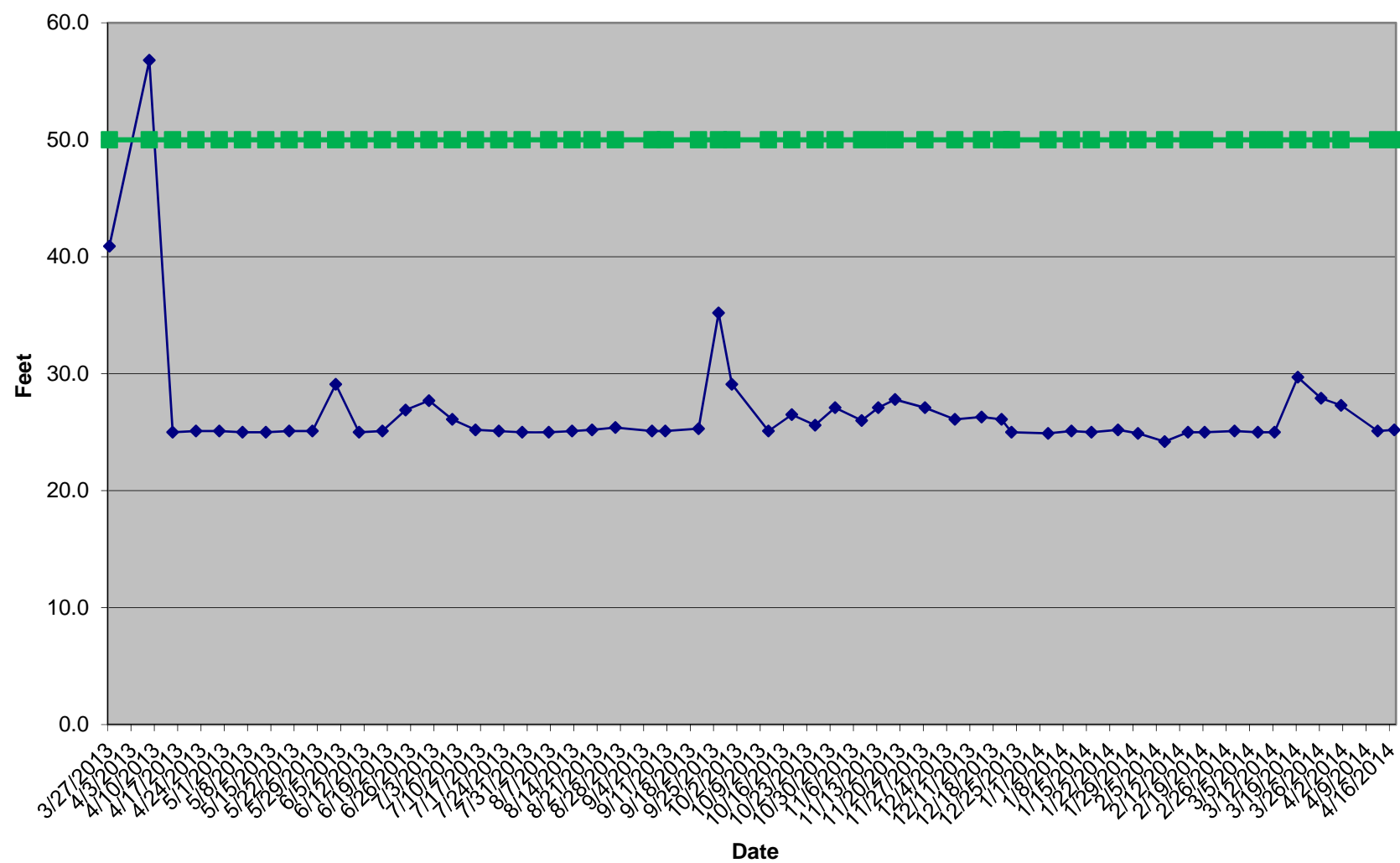
ATTACHMENT A

LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS

LCS-2D Liquid Level Above Quarry Floor

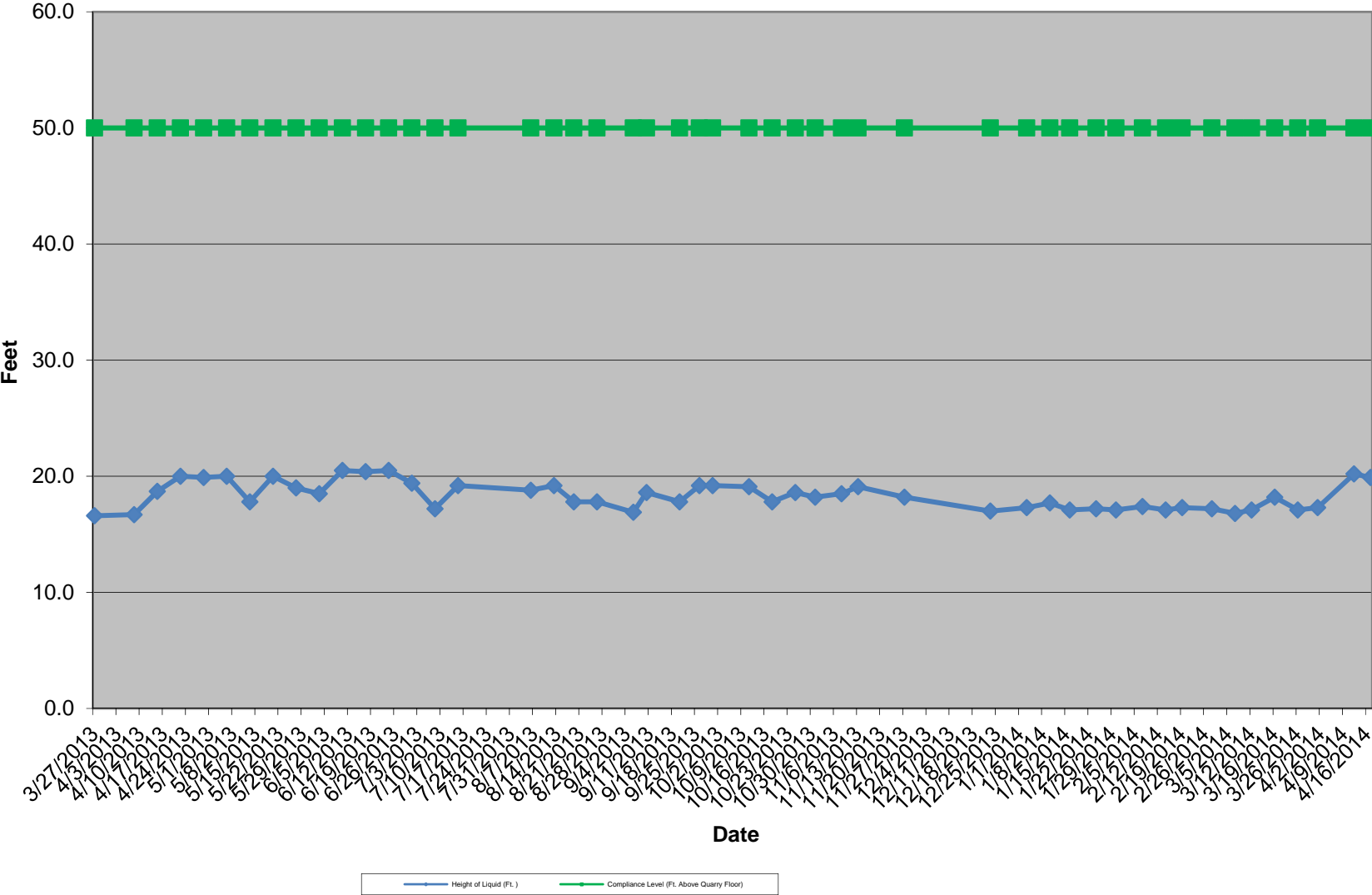


LCS-5A Liquid Level Above Quarry Floor



Height of Liquid (FL.) Compliance Level (FL. Above Quarry Floor)

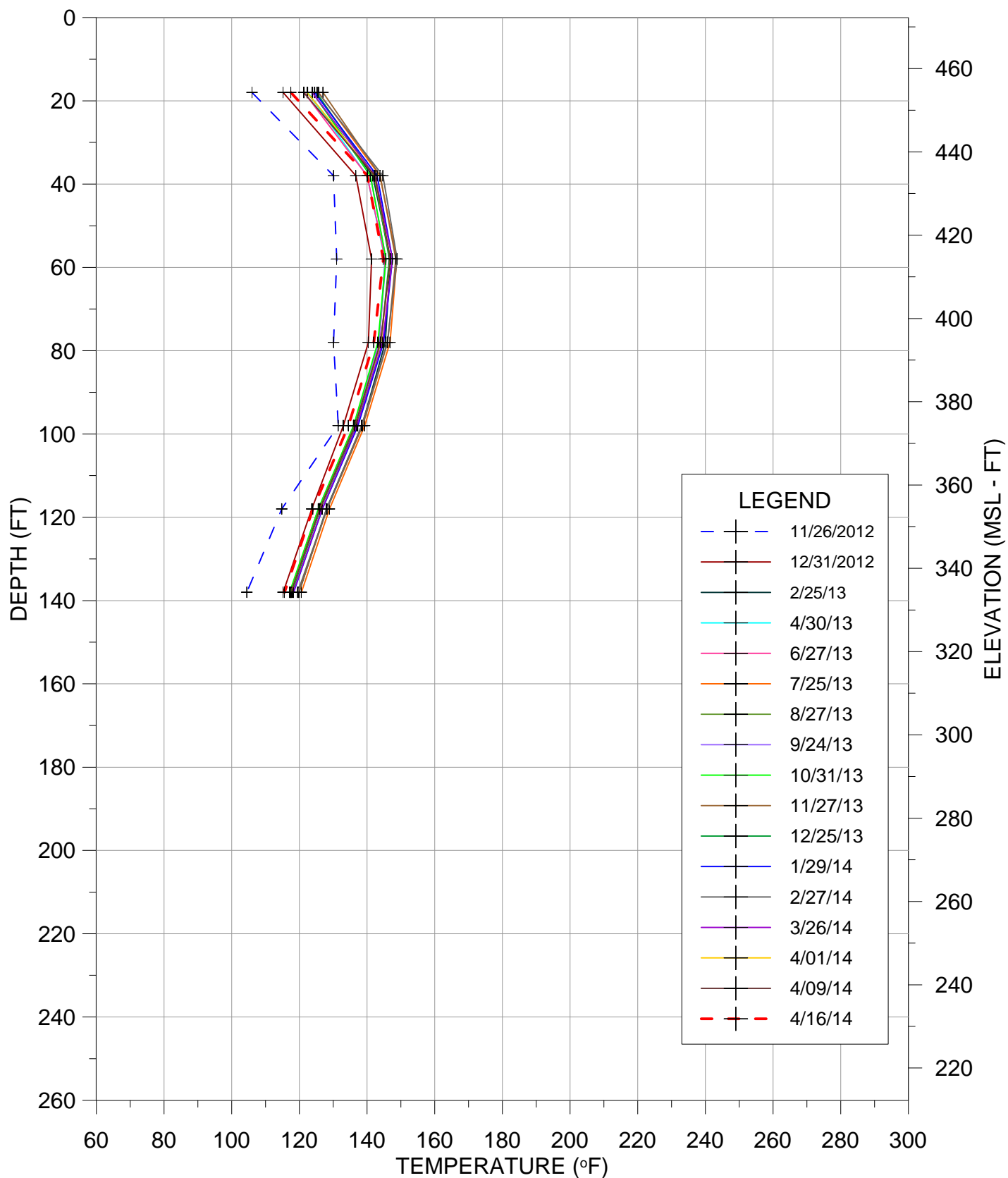
LCS-6B Liquid Level Above Quarry Floor



ATTACHMENT B

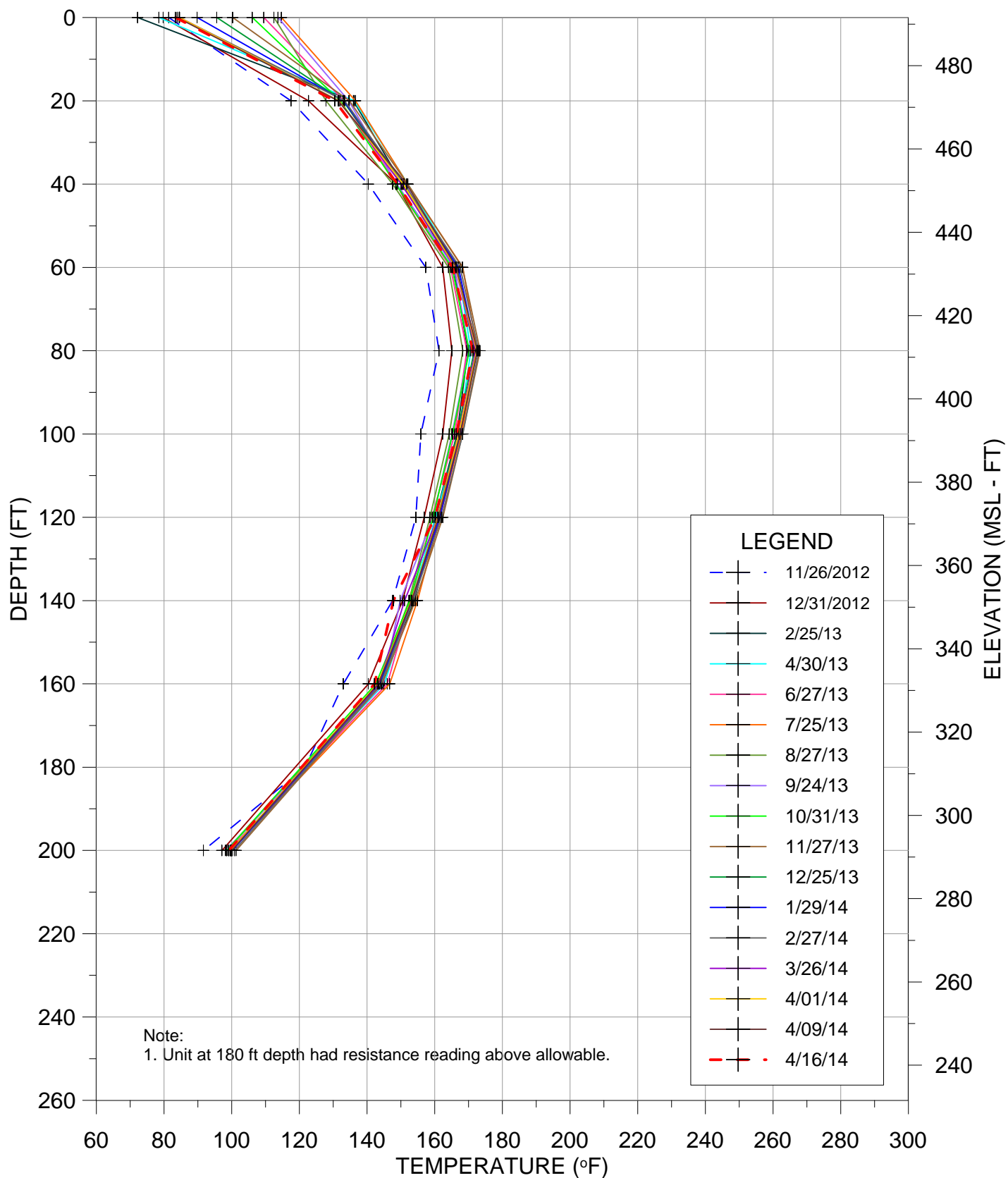
TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS

TMP-1



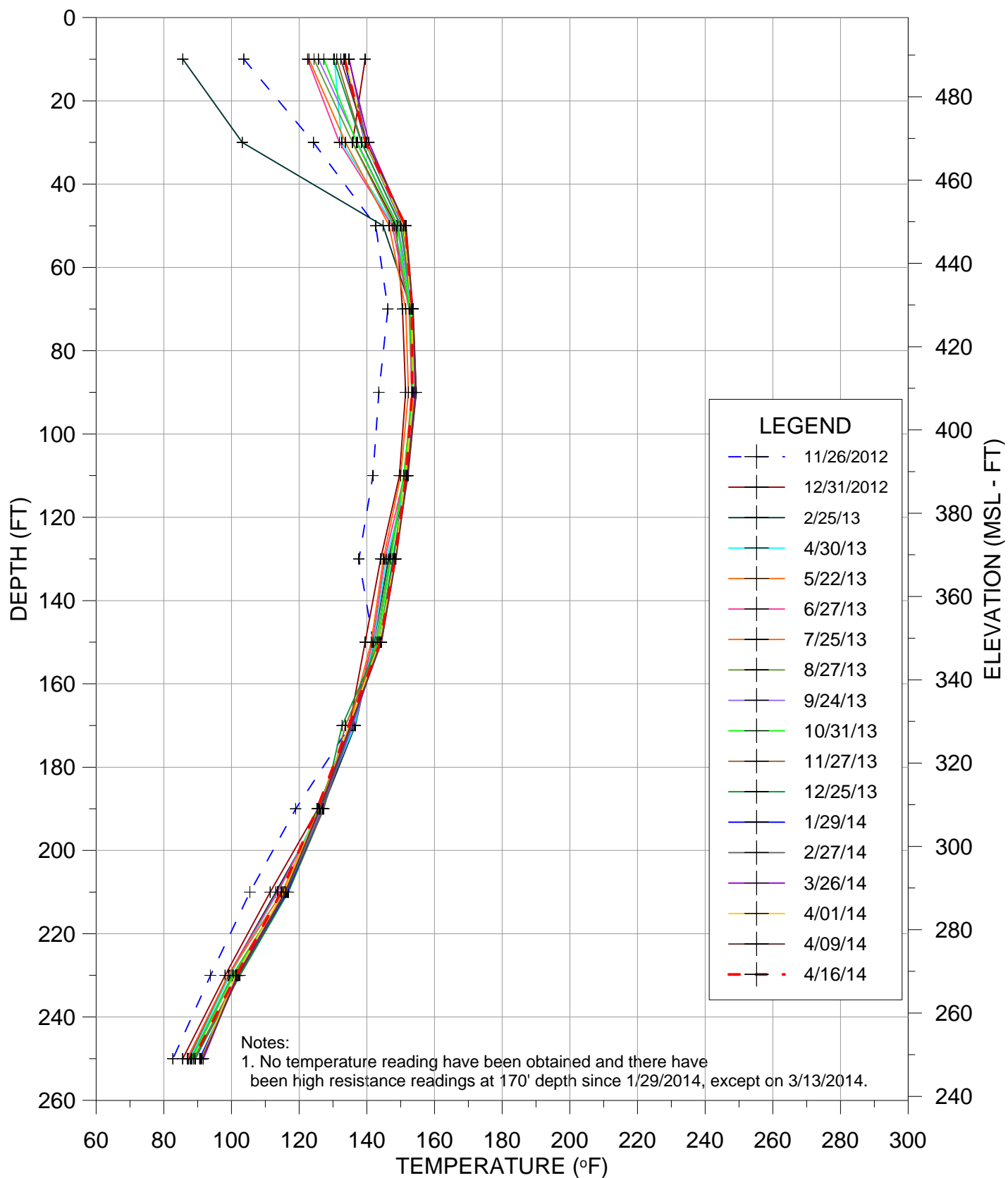
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-2



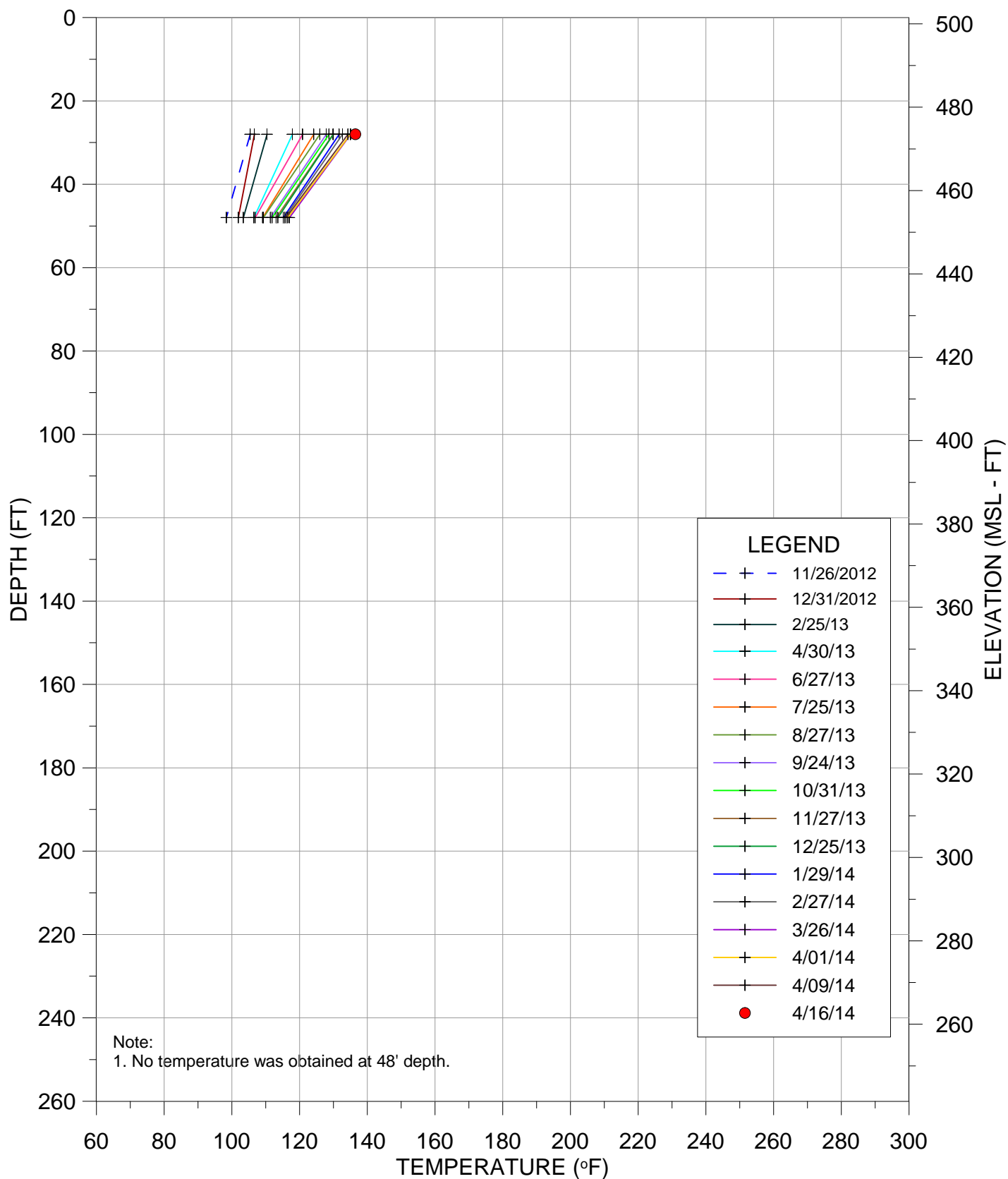
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-3



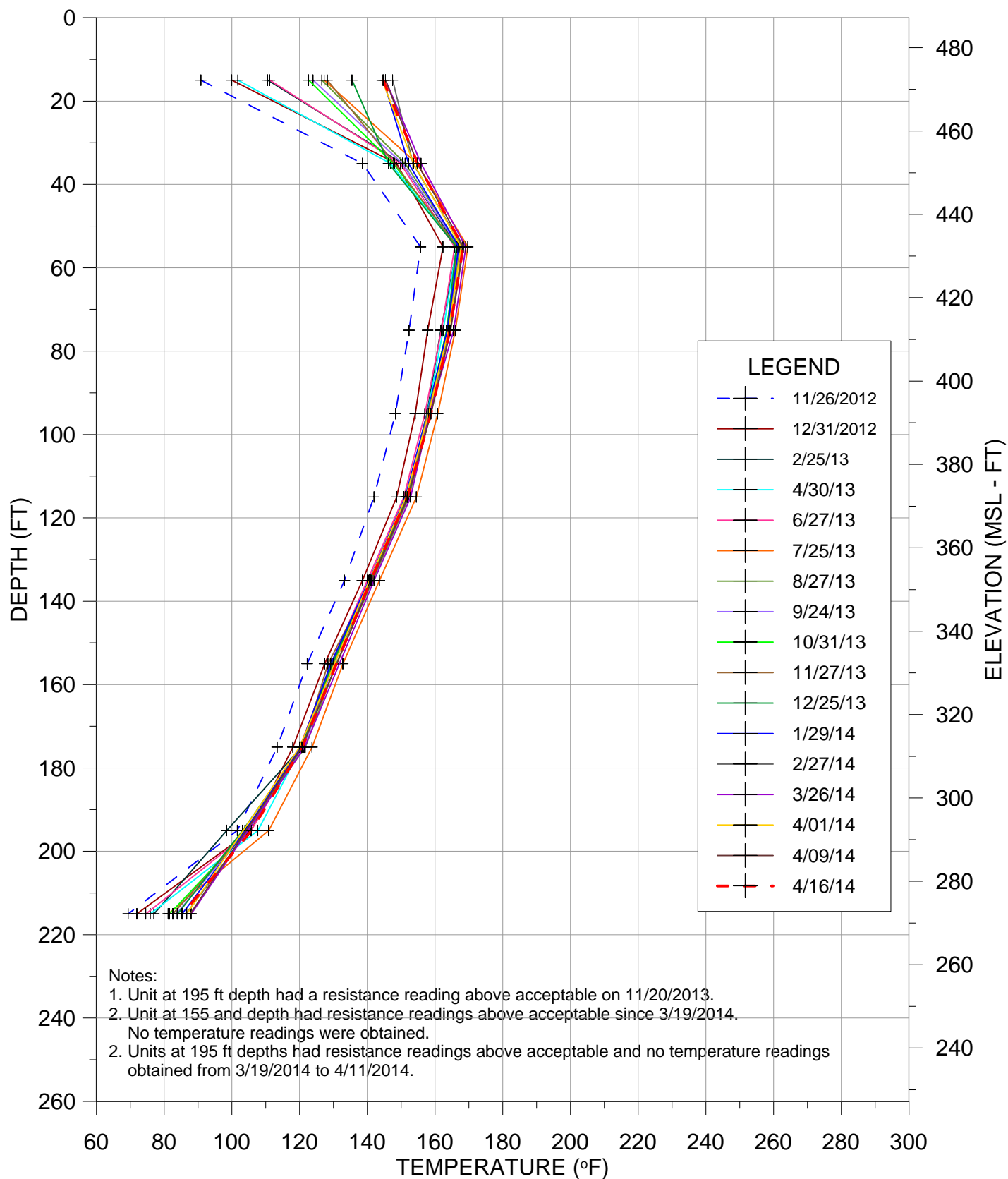
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-4

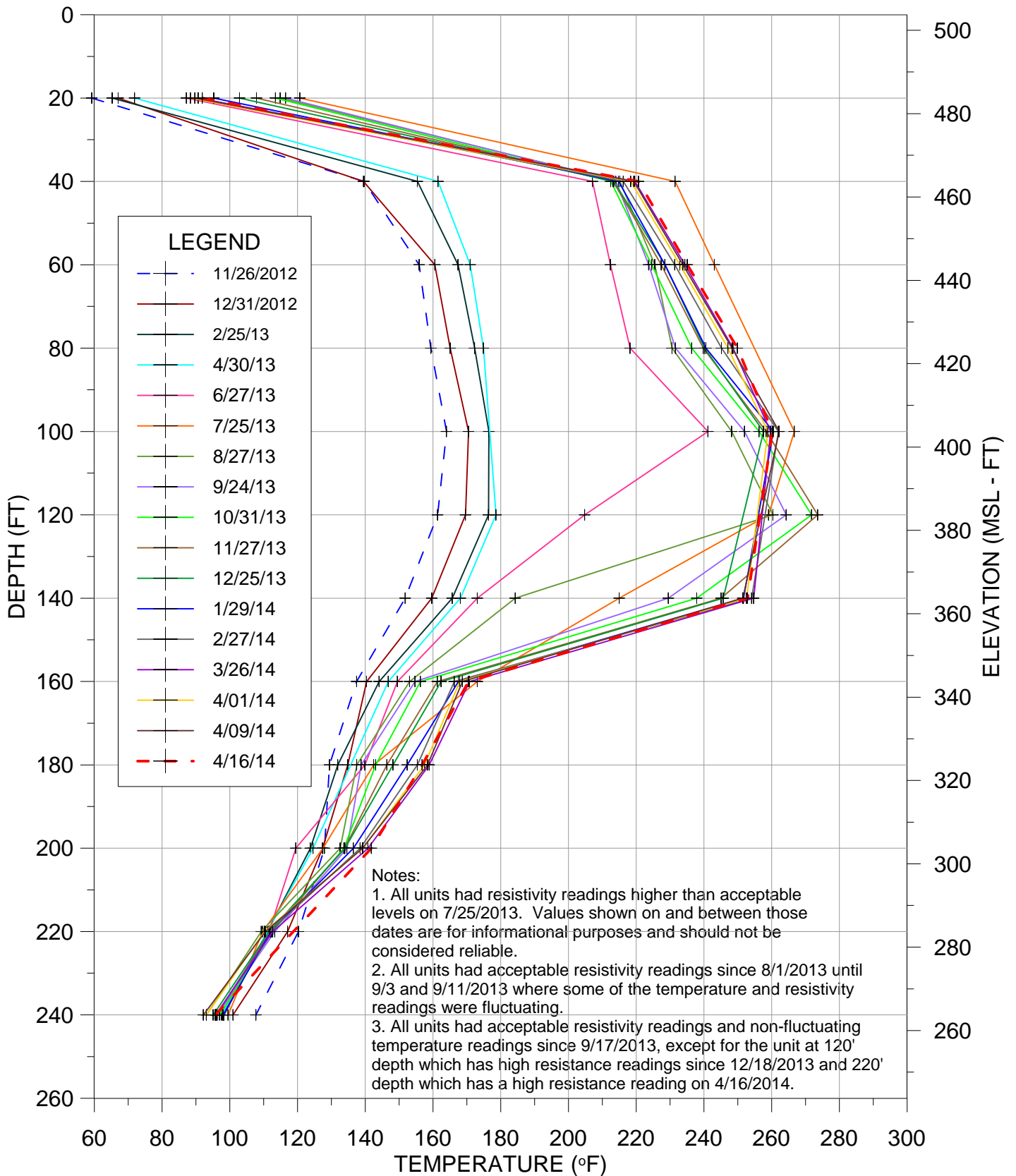


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-6

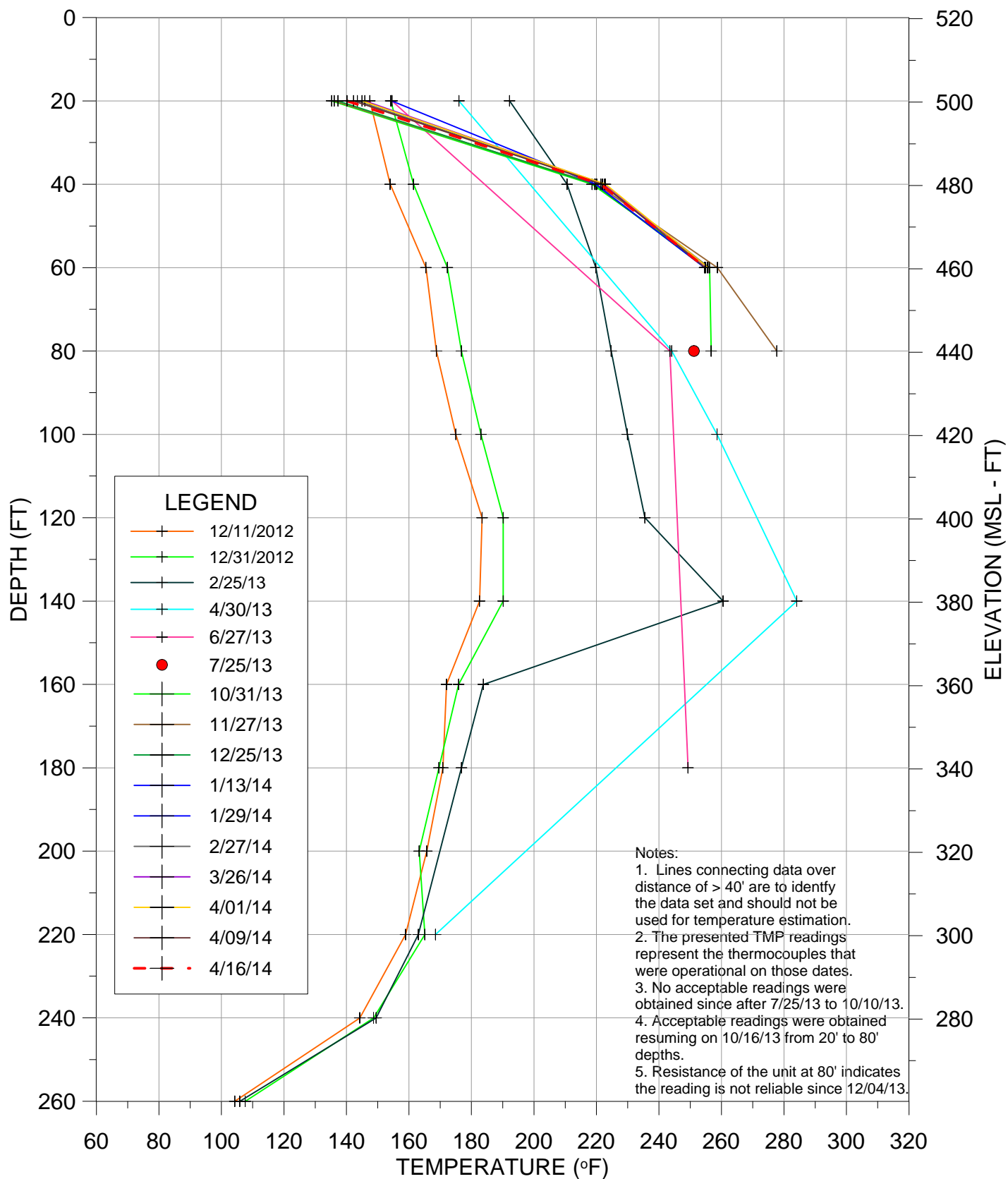


TMP-7R



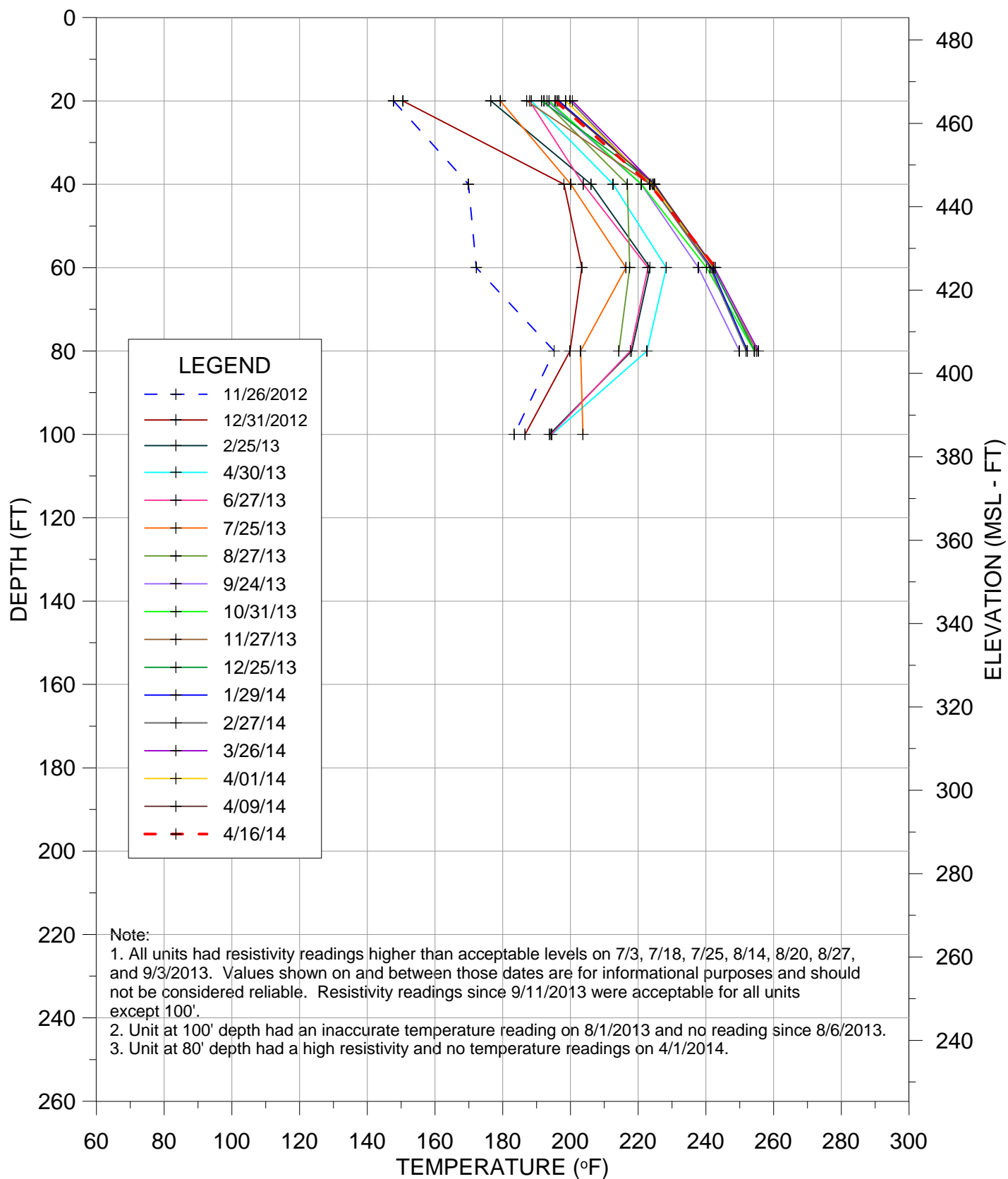
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-8

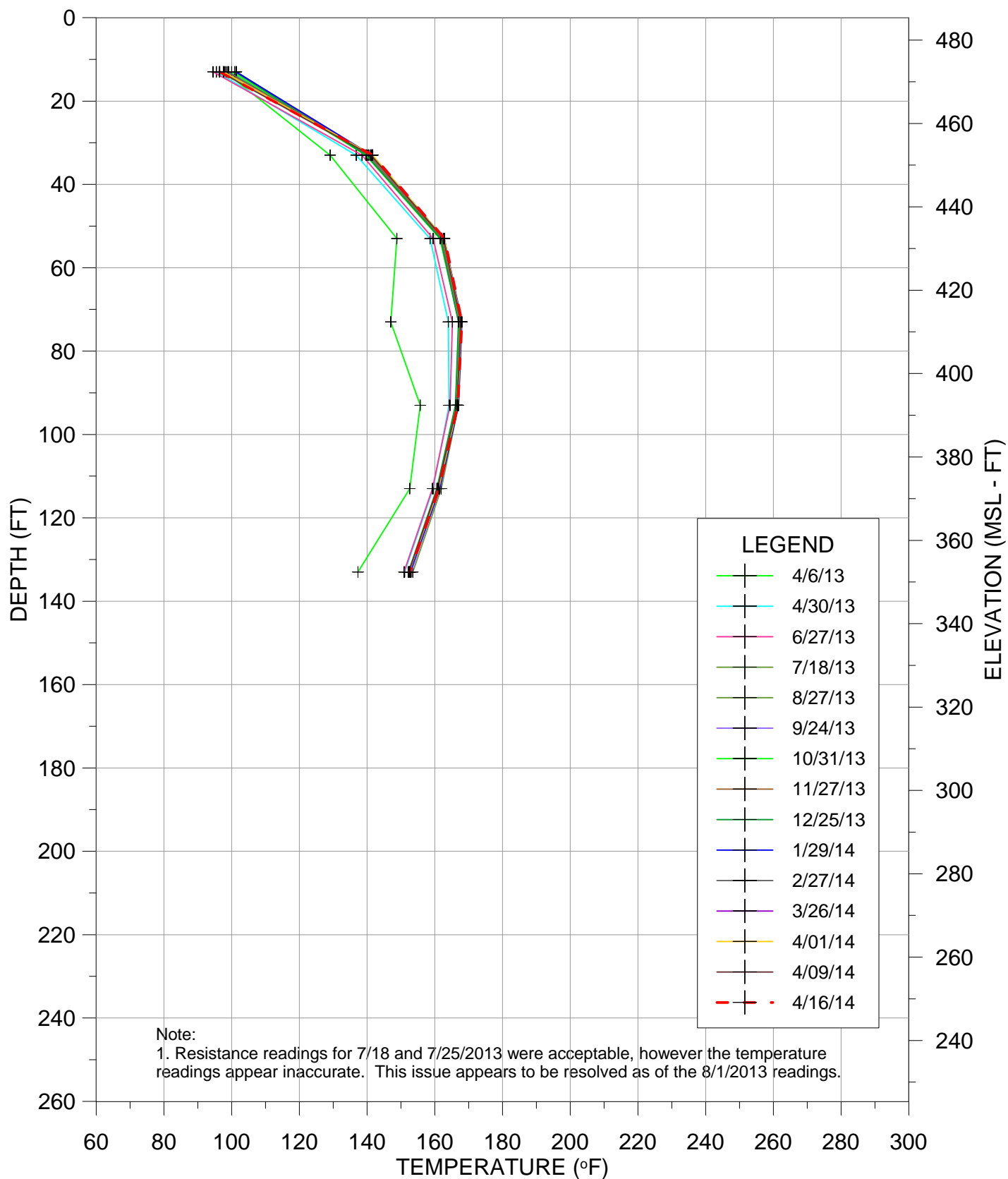


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-9

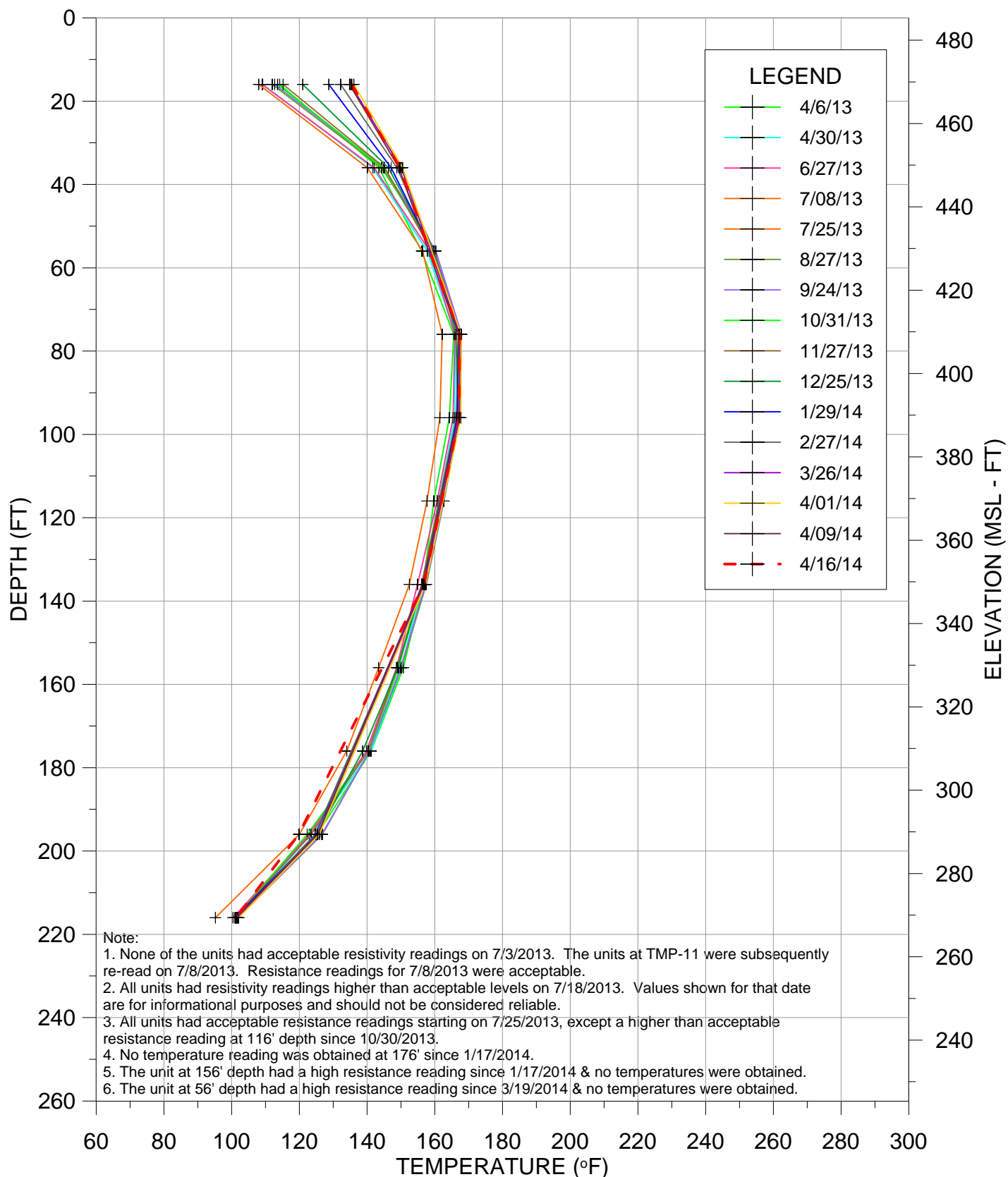


TMP-10

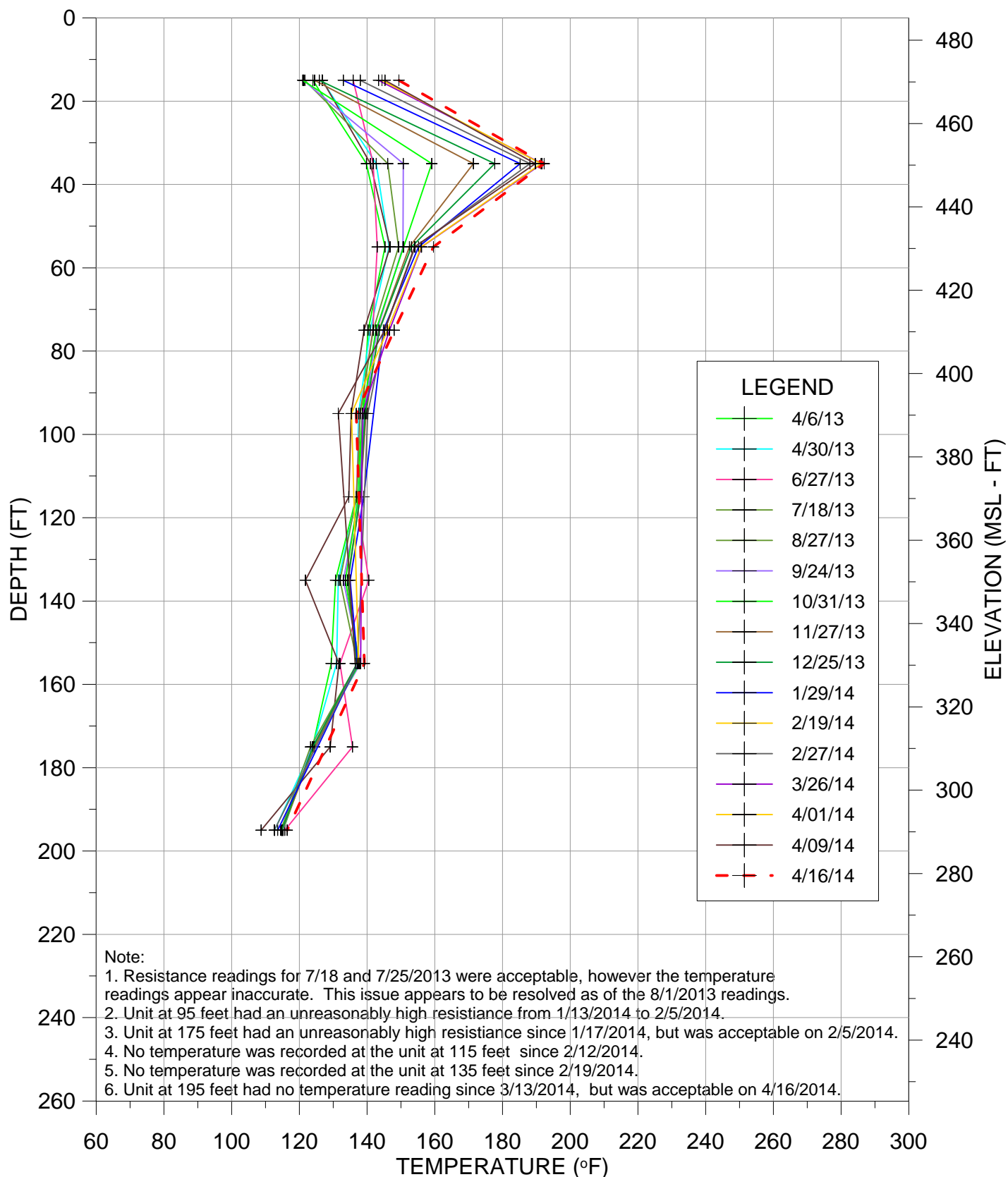


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

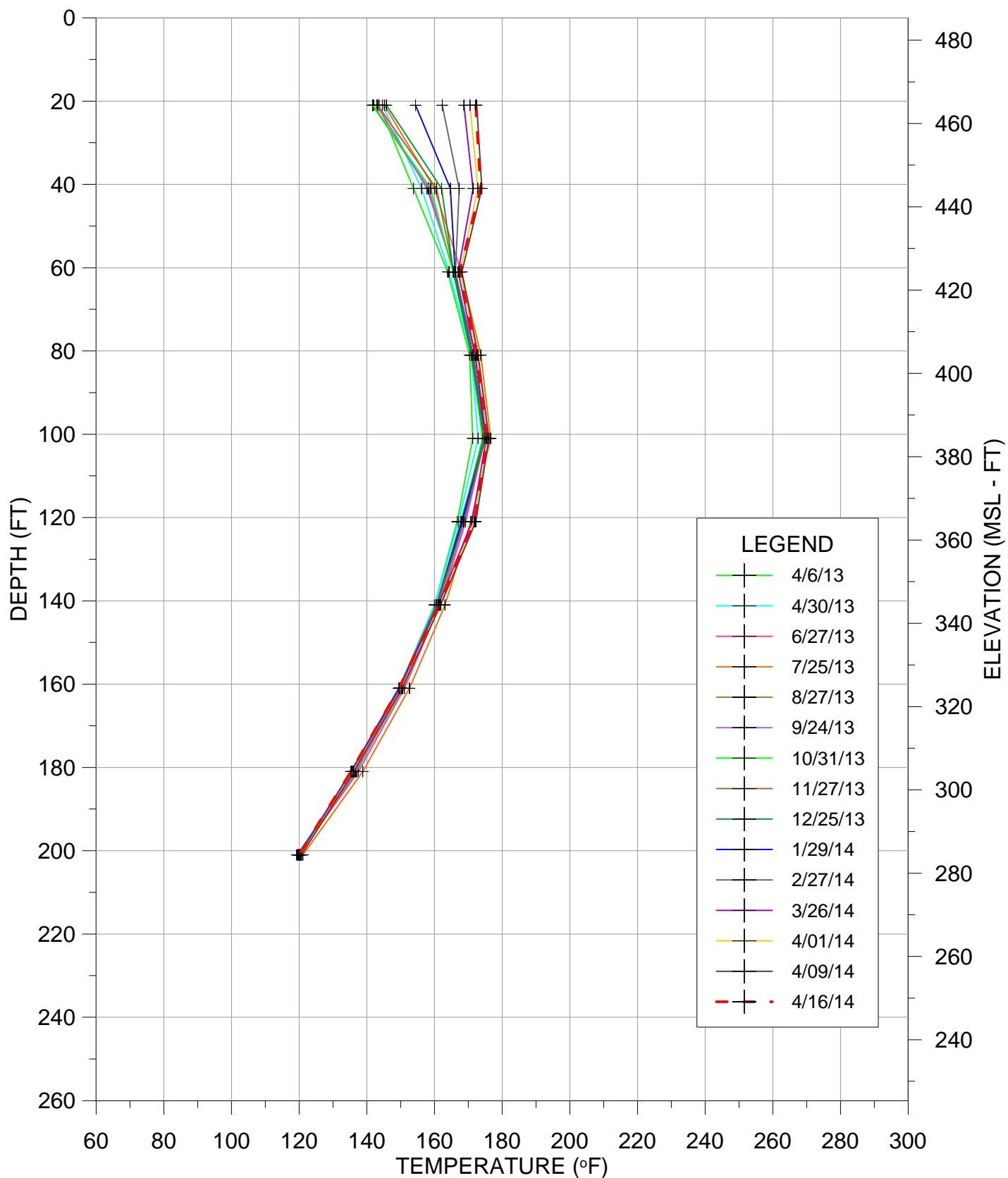
TMP-11



TMP-12

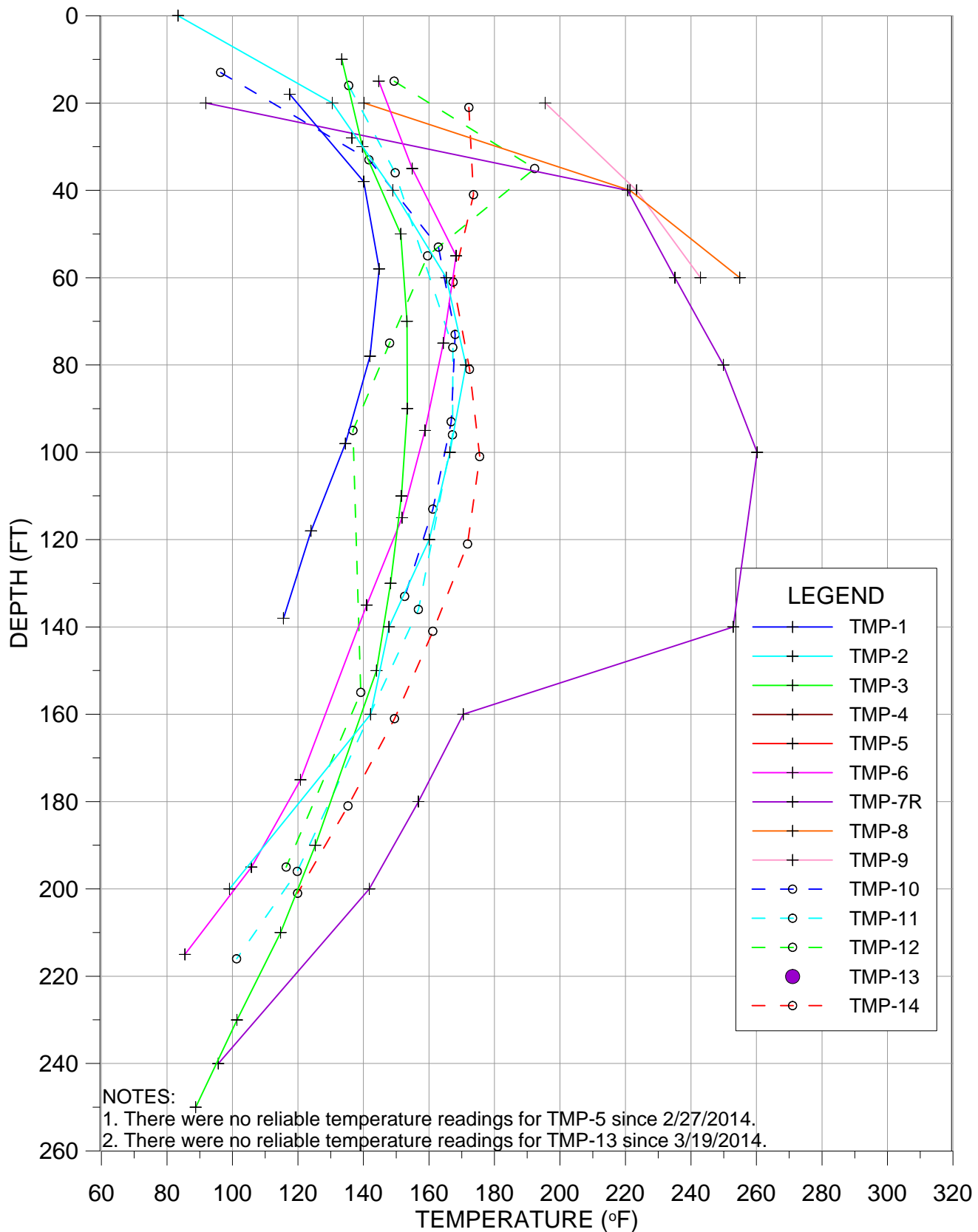


TMP-14



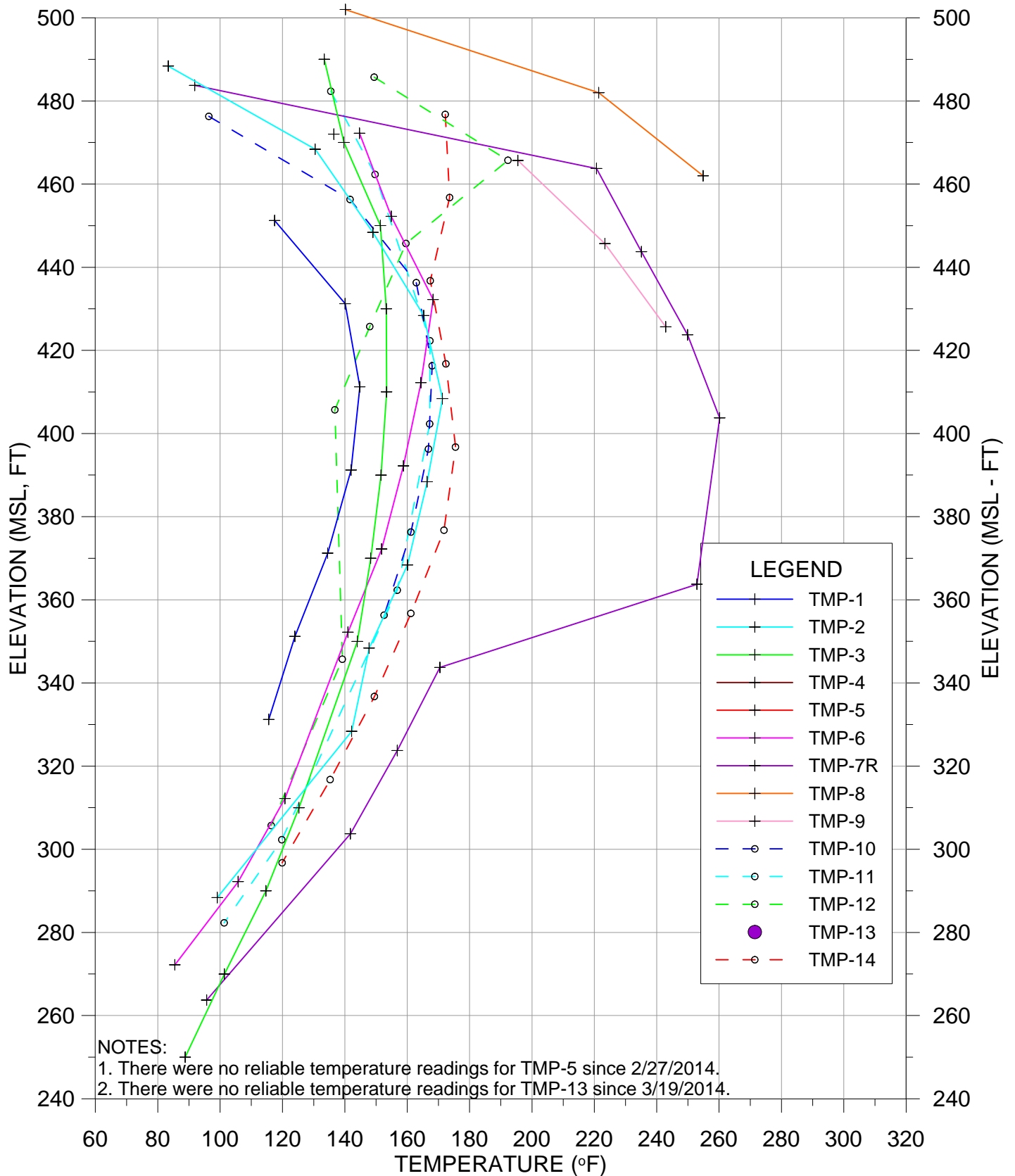
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

04/16/2014 -DEPTH



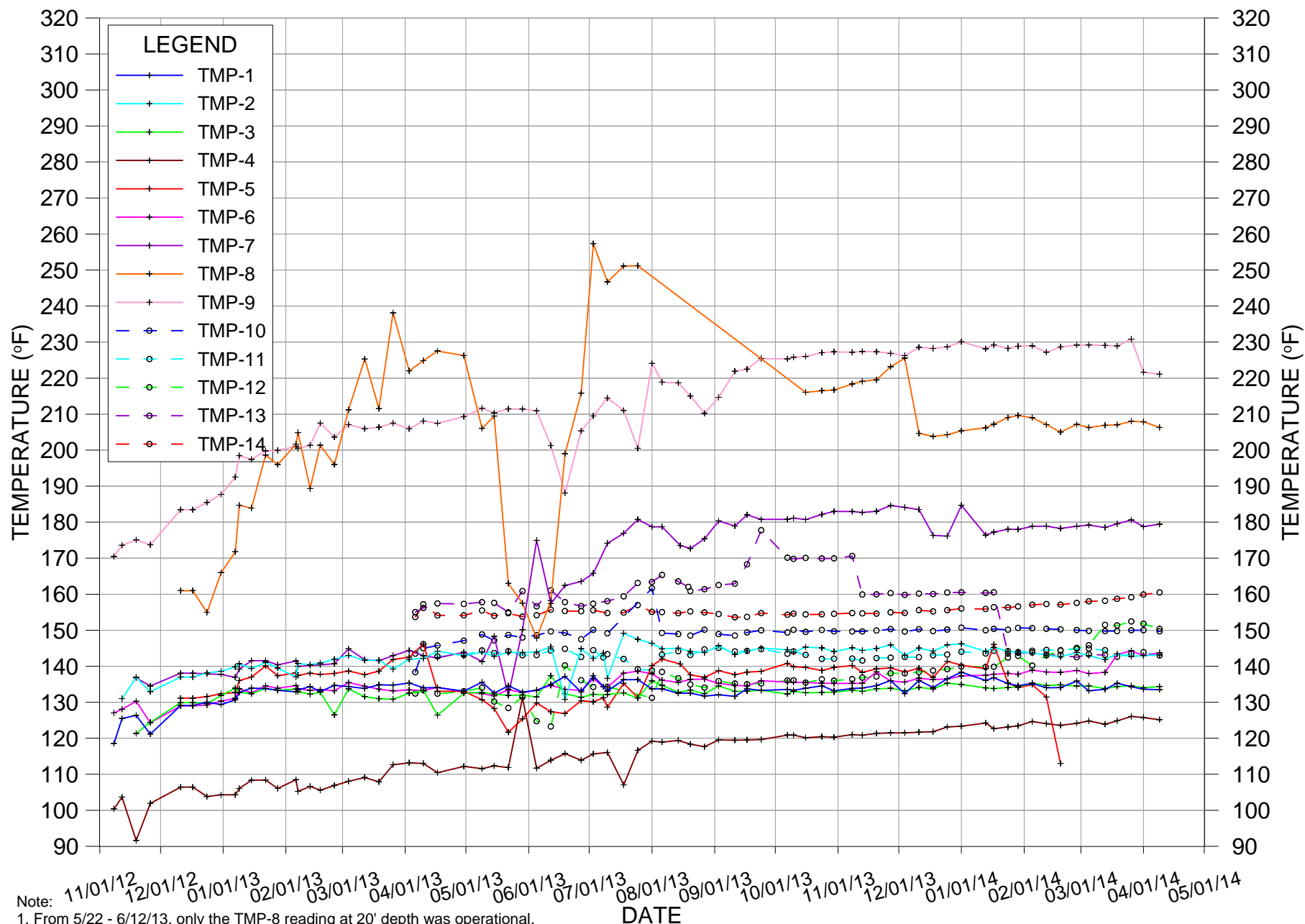
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

04/16/2014 - ELEVATION



TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

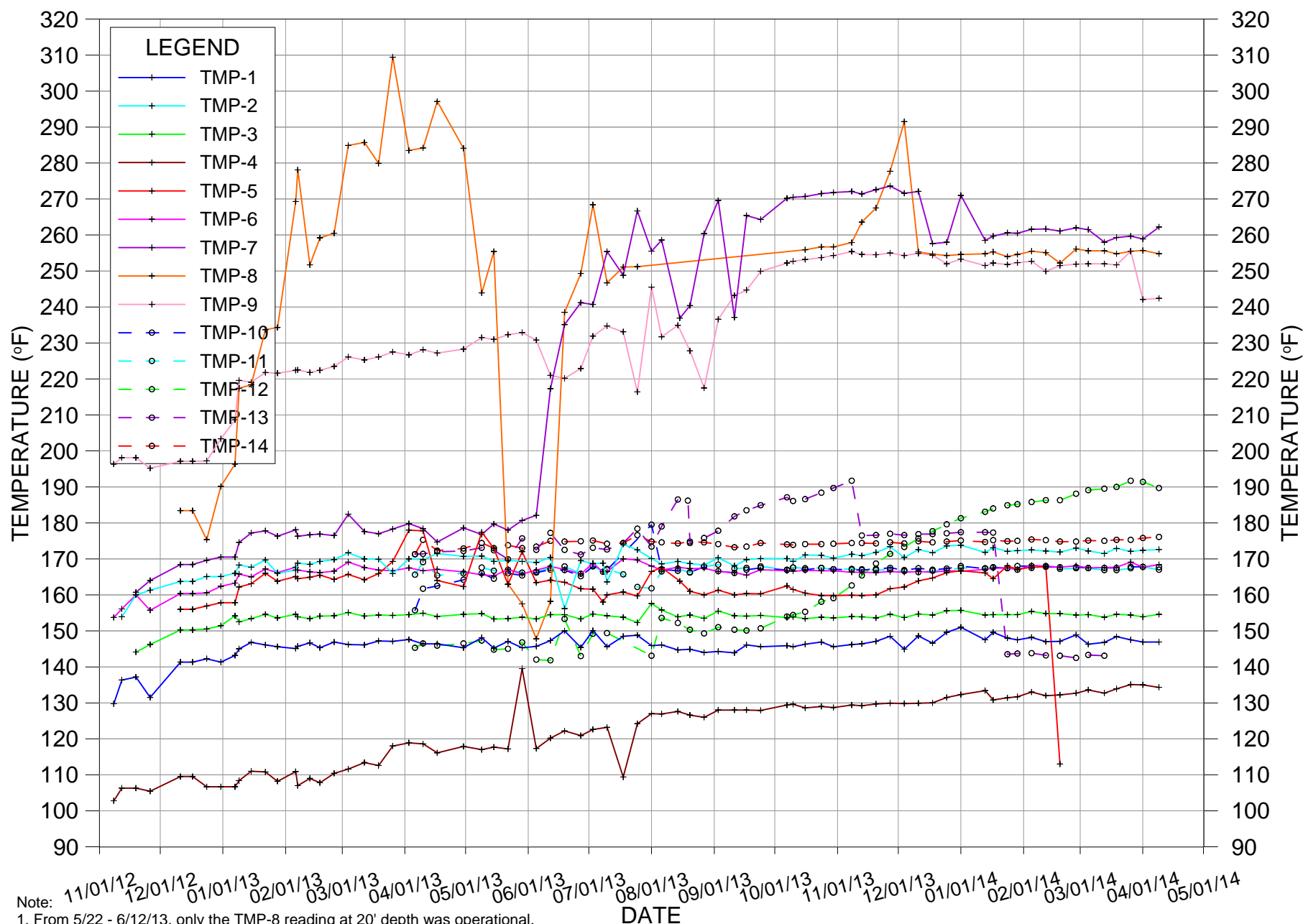
AVERAGE TEMPERATURES



- Note:
- 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.
 - A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more valid readings.
 - No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.
 - 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



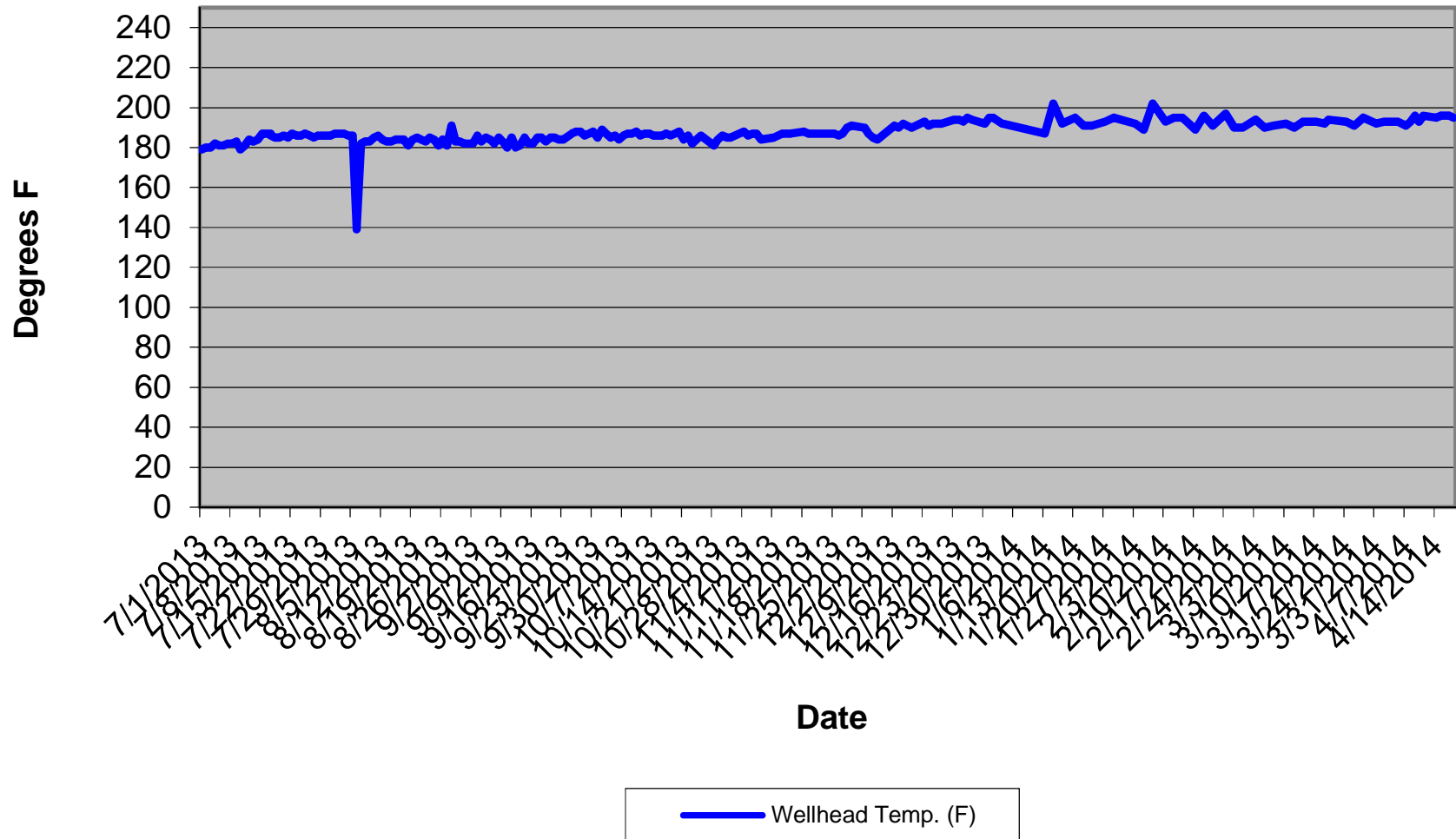
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TEMPERATURE VS TIME
BRIDGETON LANDFILL

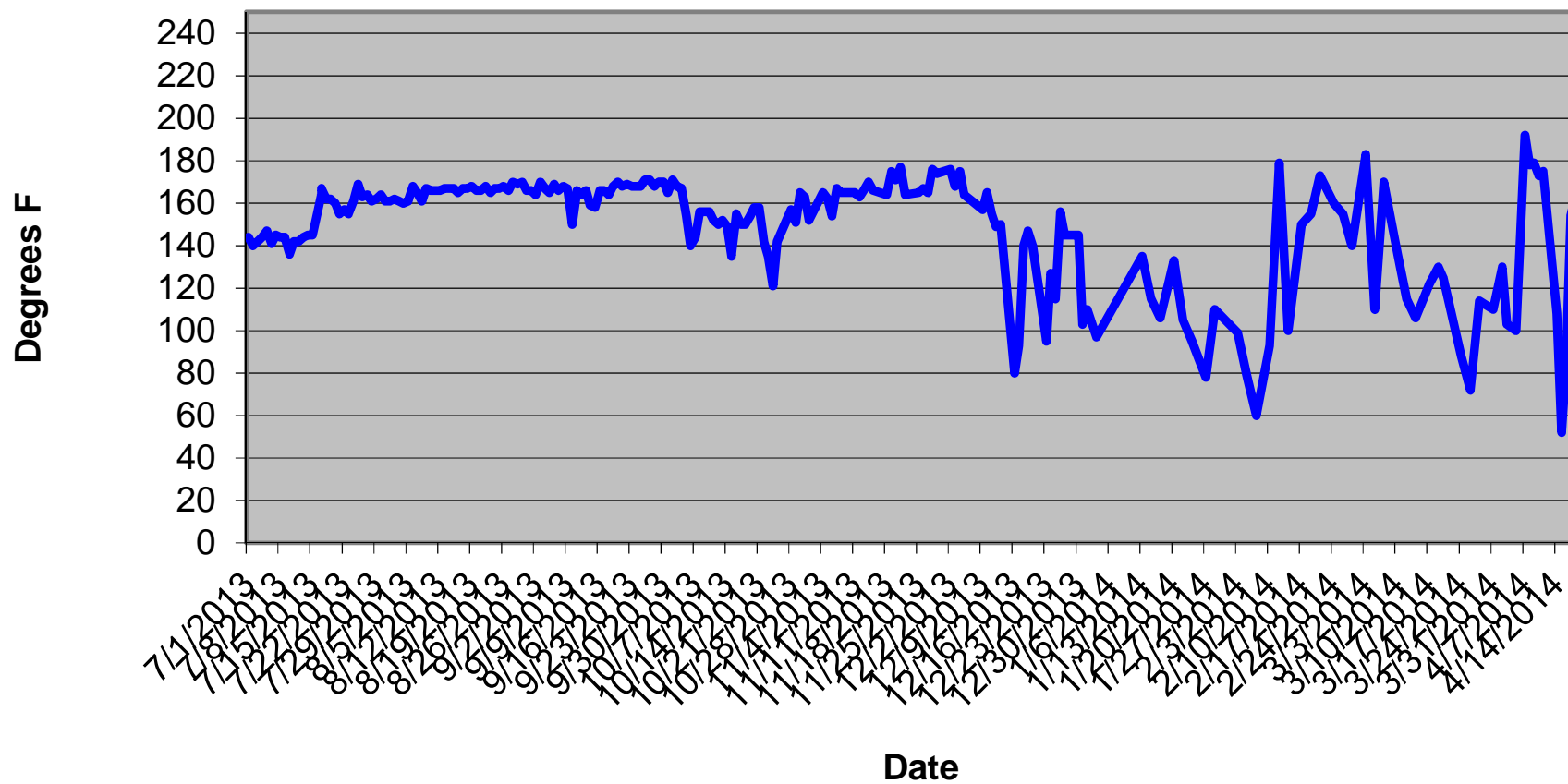
ATTACHMENT C

GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS

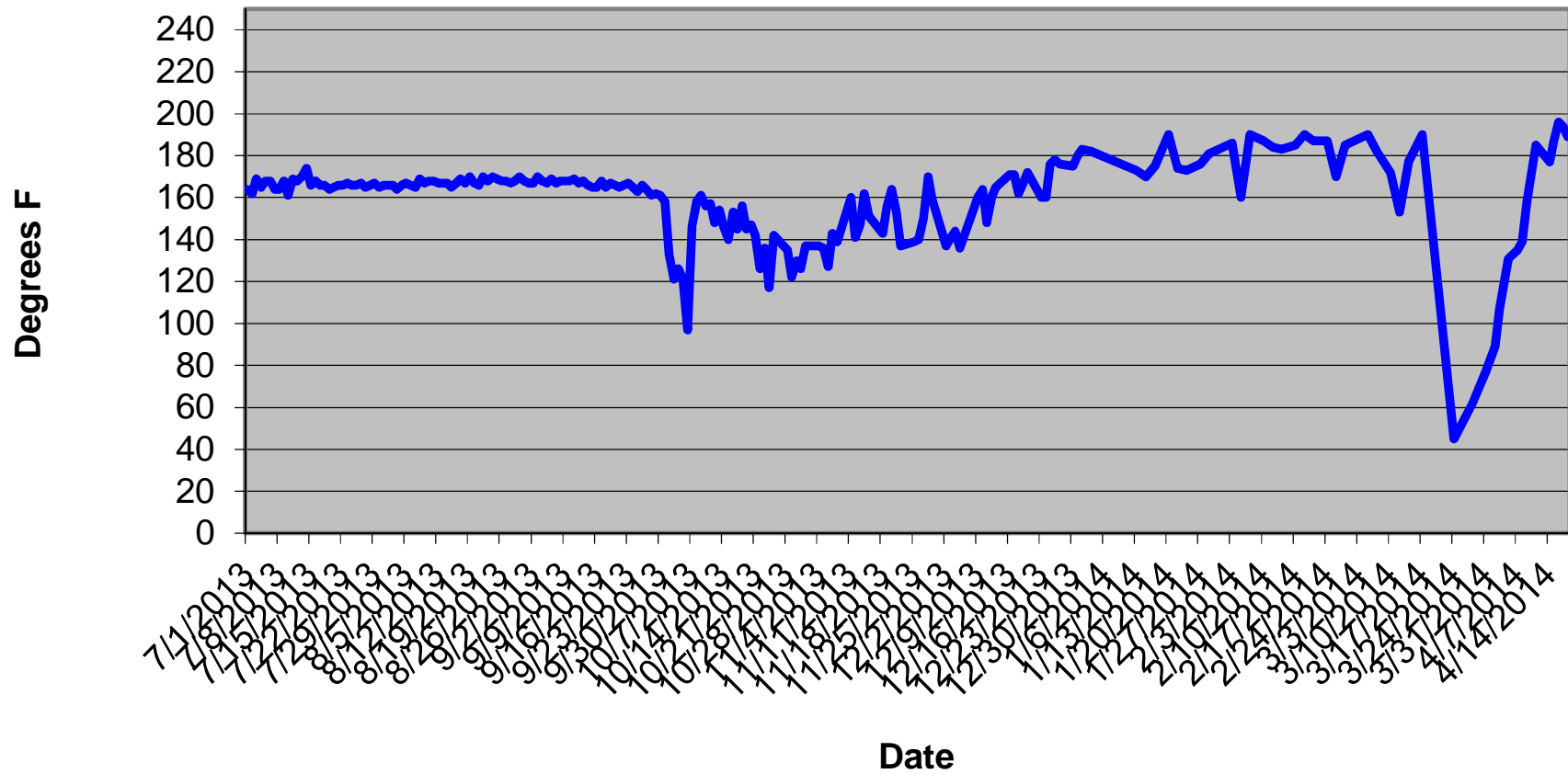
GIW-1 Wellhead Temperatures



GIW-2 Wellhead Temperatures

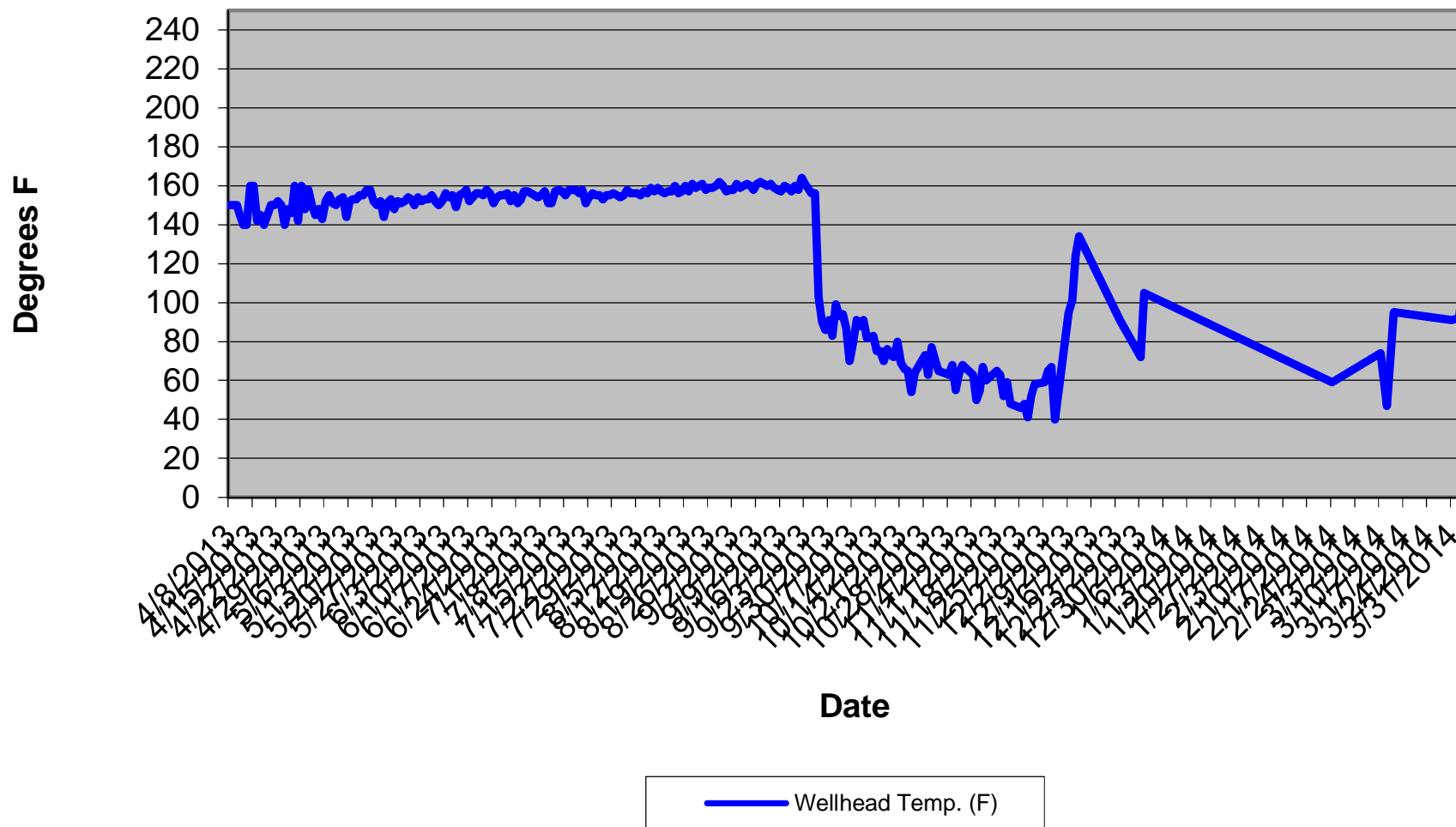


GIW-3 Wellhead Temperatures

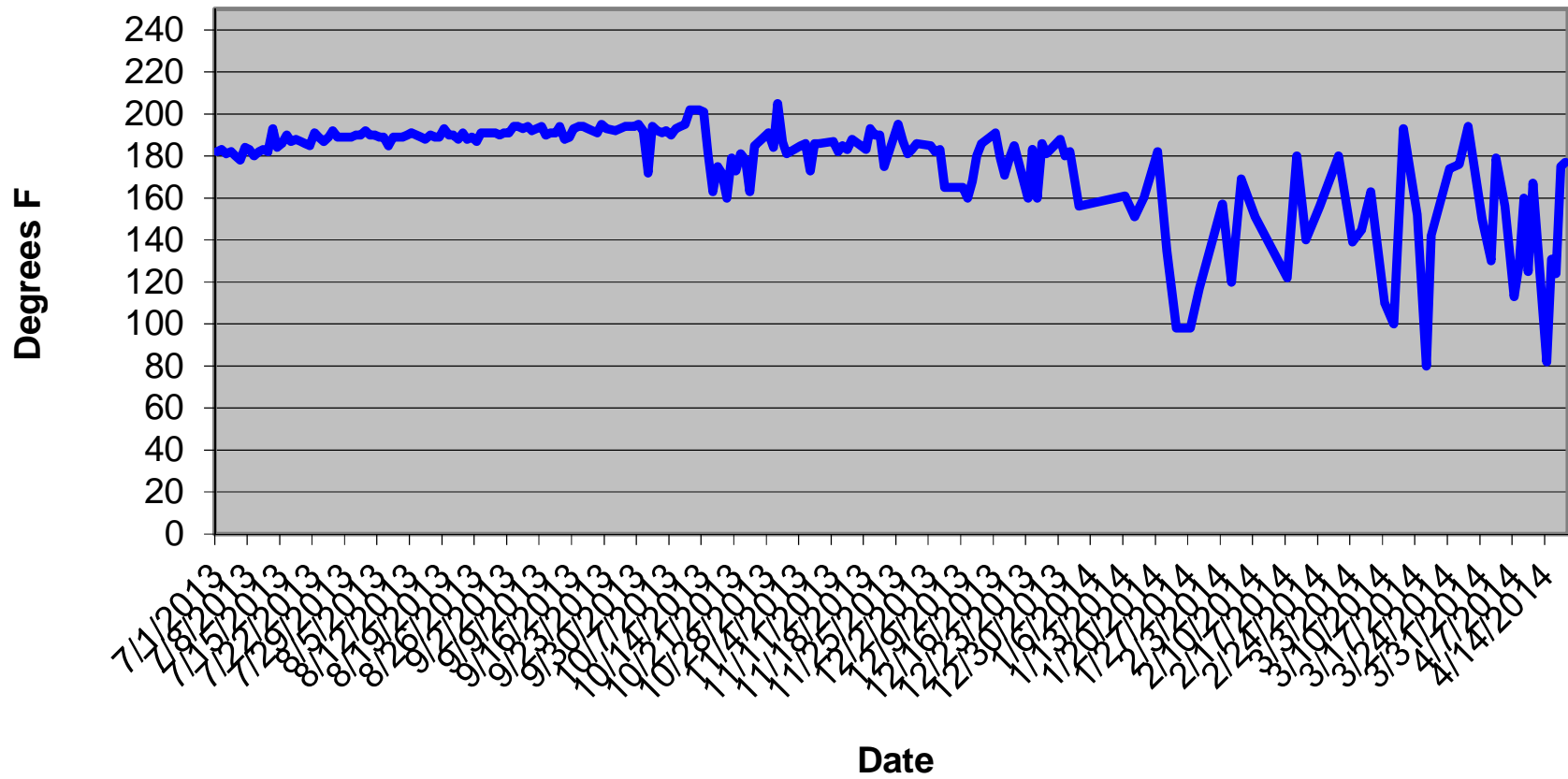


Wellhead Temp. (F)

GIW-4 Wellhead Temperatures

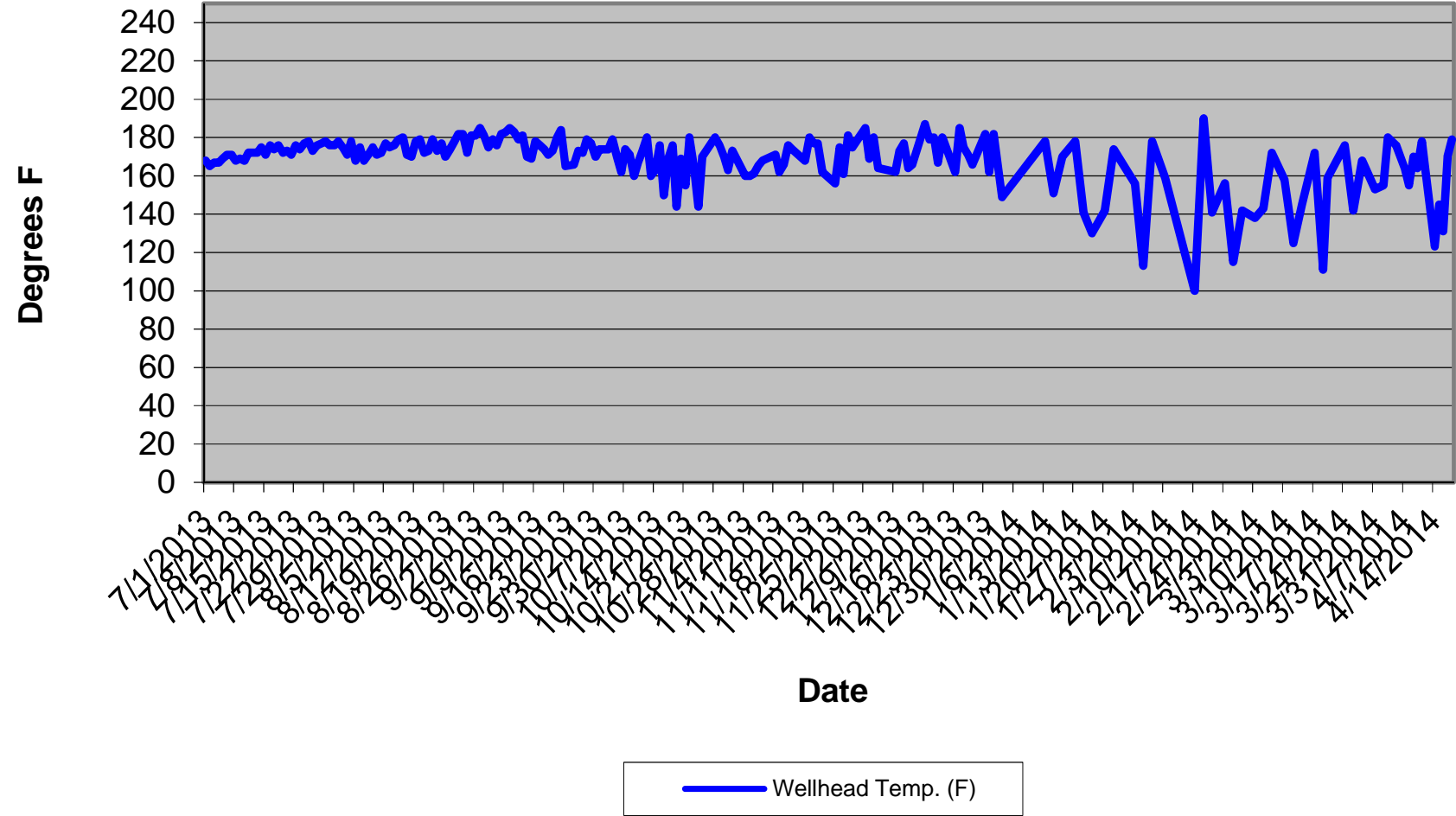


GIW-5 Wellhead Temperatures

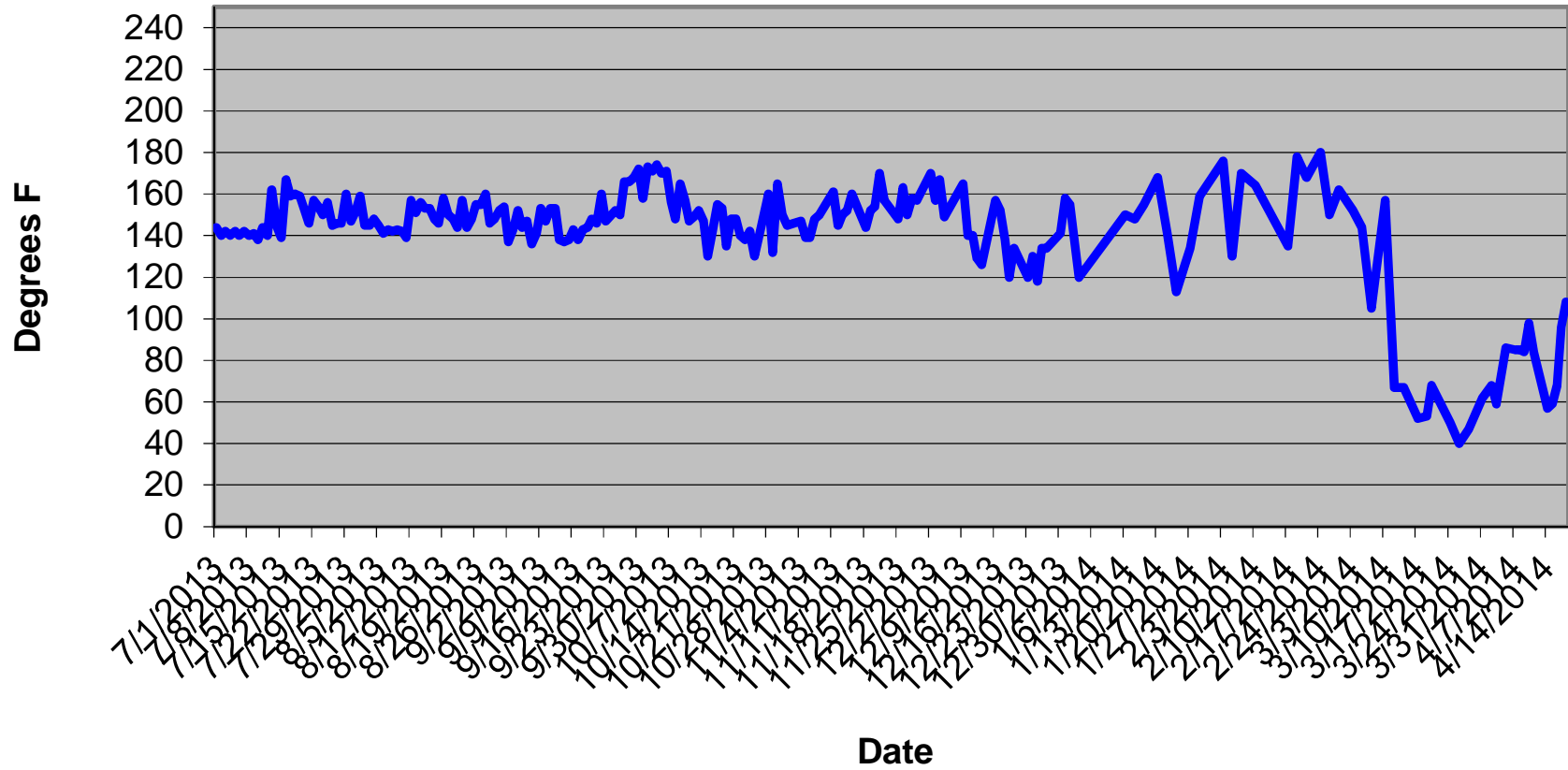


Wellhead Temp. (F)

GIW-6 Wellhead Temperatures

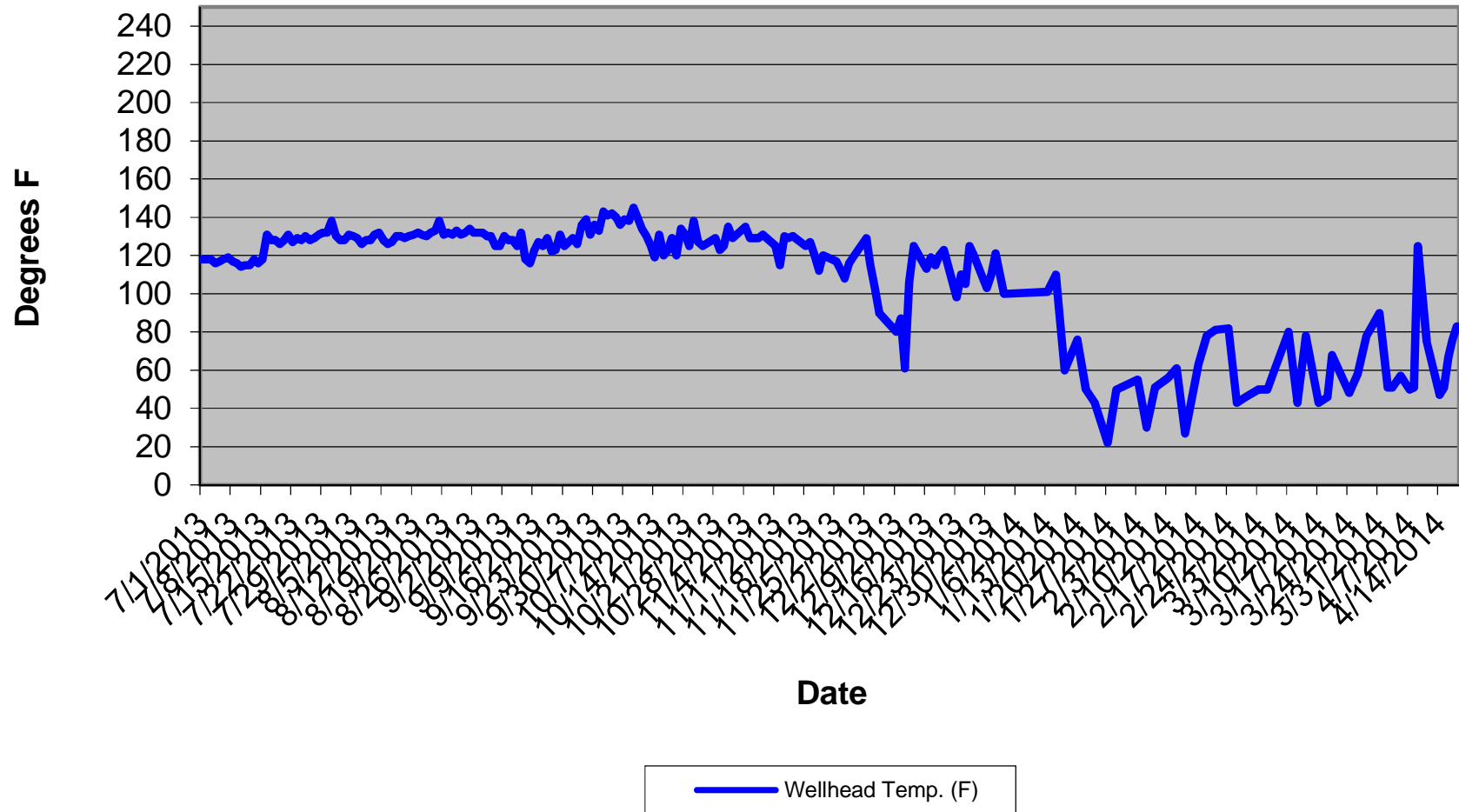


GIW-7 Wellhead Temperatures

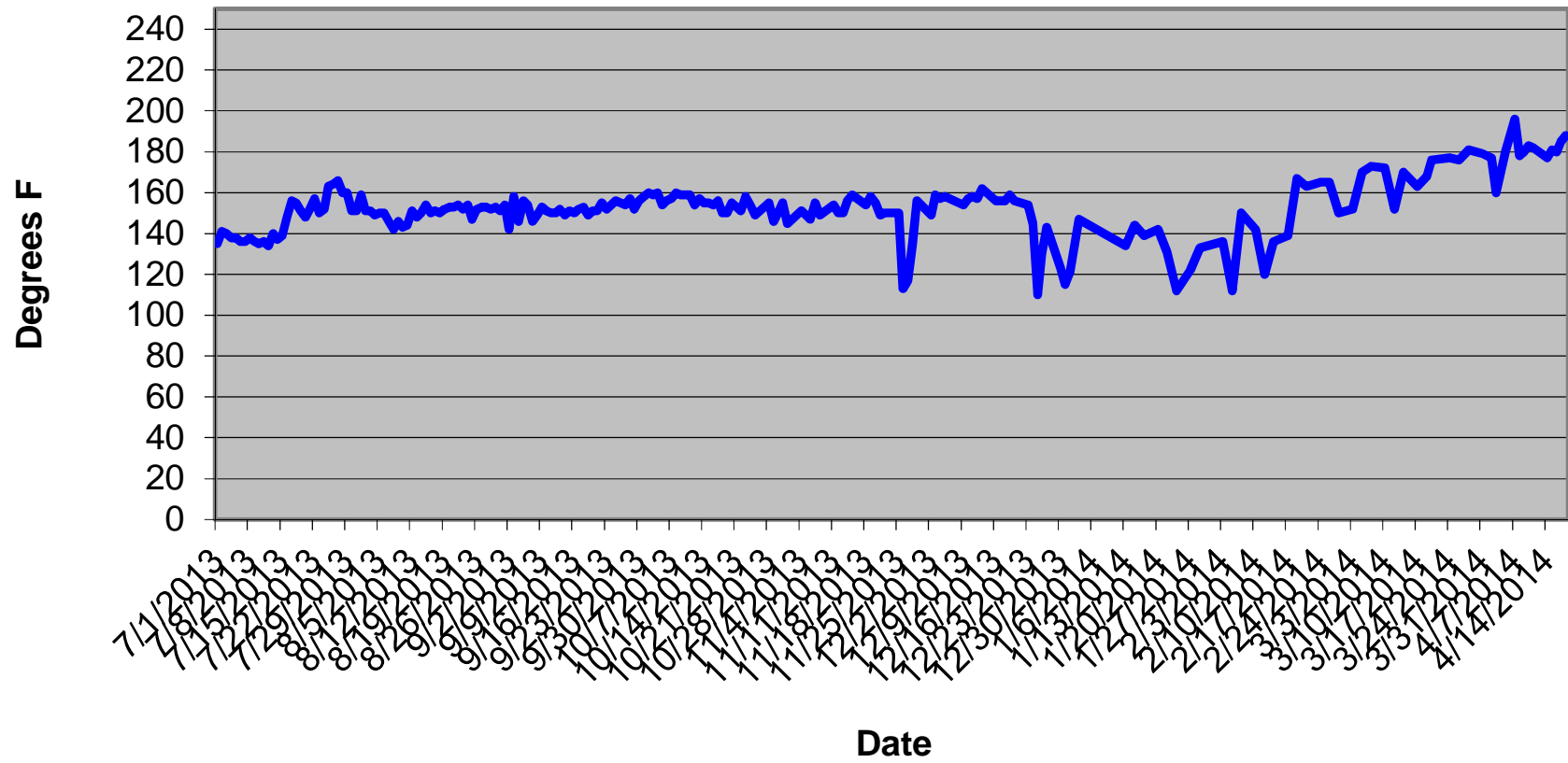


Wellhead Temp. (F)

GIW-8 Wellhead Temperatures

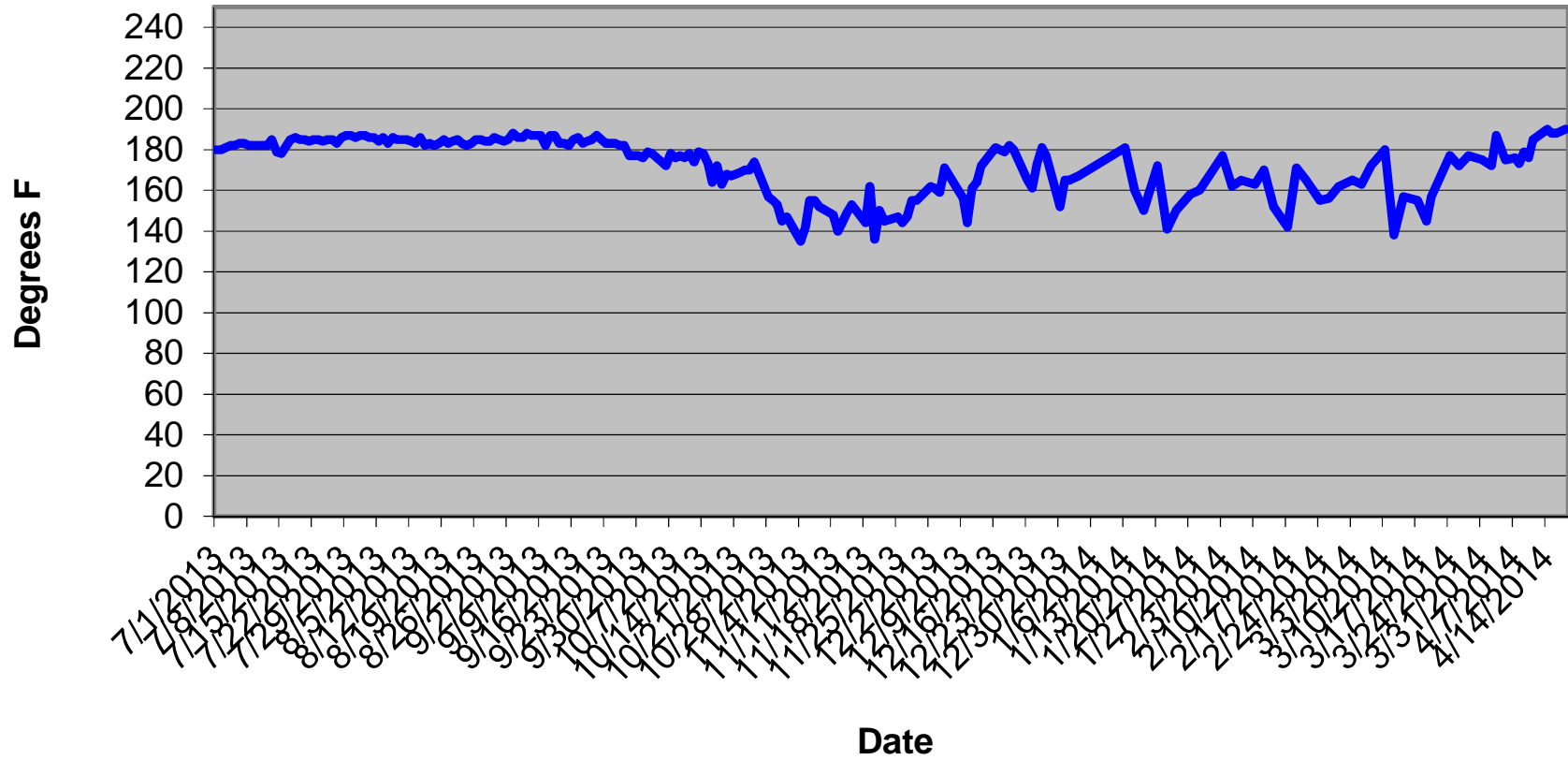


GIW-9 Wellhead Temperatures



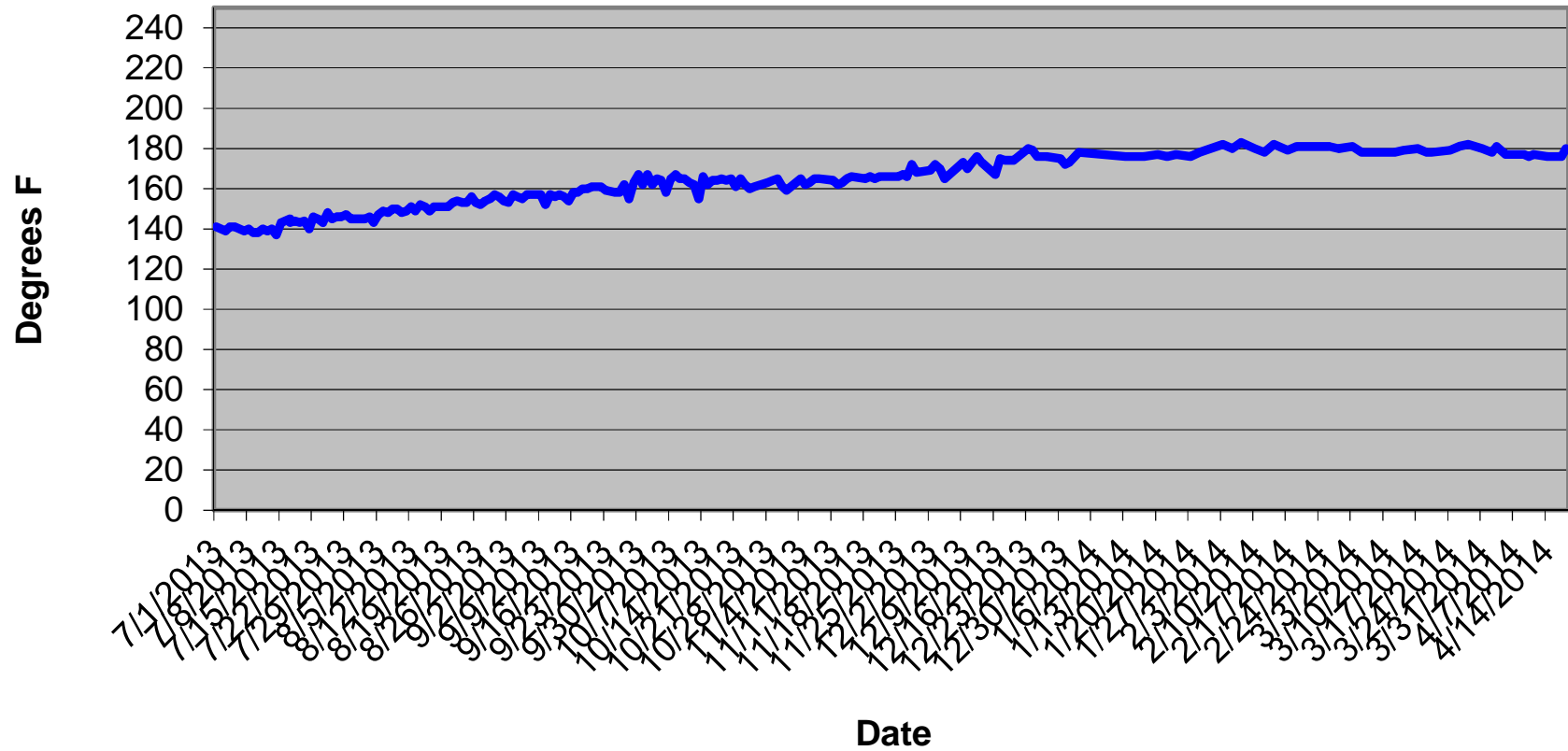
Wellhead Temp. (F)

GIW-10 Wellhead Temperatures



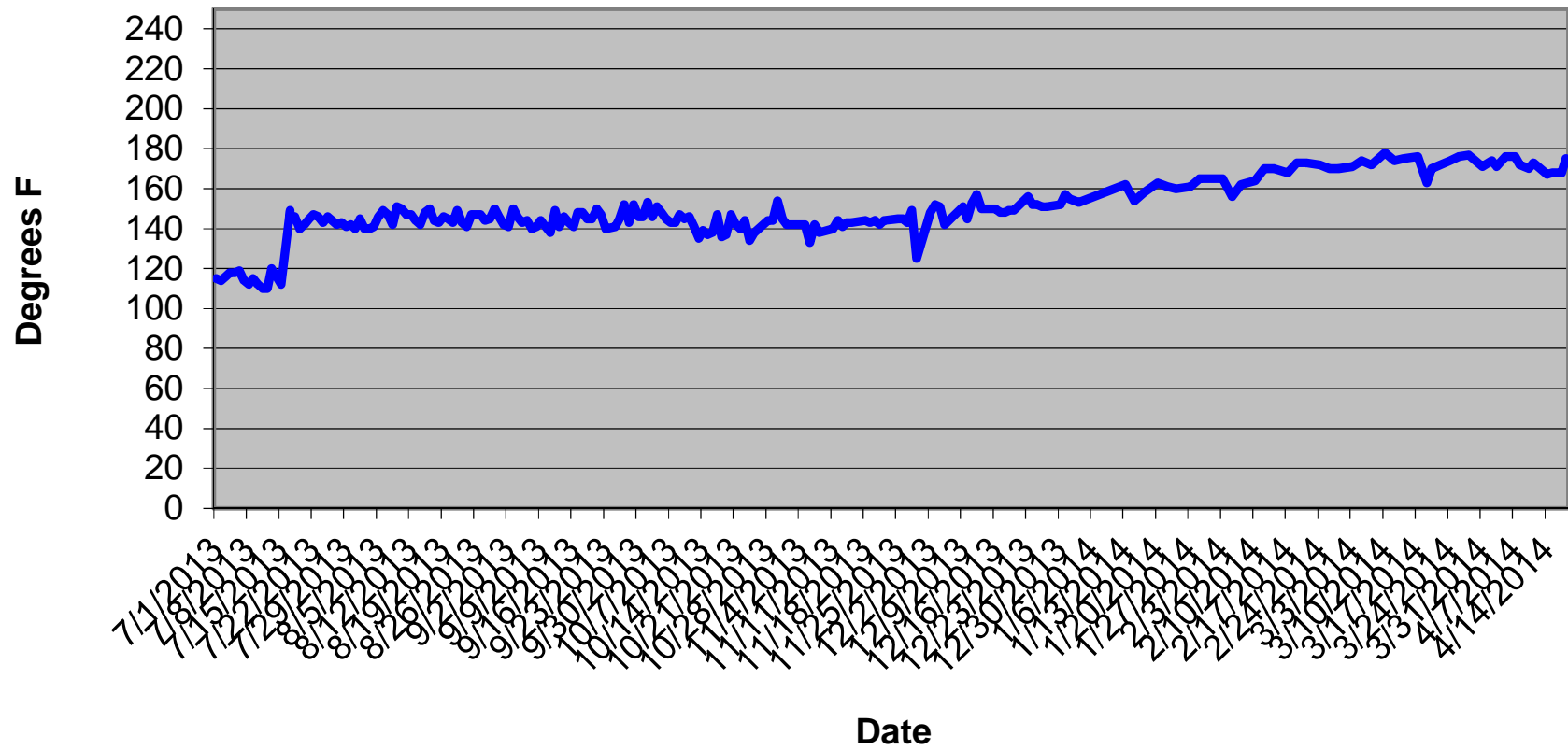
Wellhead Temp. (F)

GIW-11 Wellhead Temperatures



Wellhead Temp. (F)

GIW-12 Wellhead Temperatures



Wellhead Temp. (F)

GIW-13 Wellhead Temperatures

