

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
Attachment D – Gas Well GEW-54 Wellhead Temperature**

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**

September 24, 2013

Commentary on Data

Attachment A – Leachate Levels in Leachate Collection Sumps

Bridgeton Landfill has installed replacement sump LCS-3C but is unable to install a pump due to excessive pressures and surging conditions. A replacement for LCS-4B has been drilled but attempts to place well casing and pump in it have been temporarily abandoned until some excess pressure in the LCS is relieved. LCS-1 appears to be compromised (bent or collapsed) partially down so it is not possible to insert a full-depth pump; however, we will insert a Blackhawk pump as deep as possible to resume leachate removal.

The other leachate collection sumps appear to be operating properly with measured leachate levels below the required pumping levels.

Attachment B – Temperature Monitoring Probe Analytical Charts

The following TMPs indicated virtually identical or lower temperature profiles than previous week(s): TMP-1, -2, -3, -5, -6, -7, -10, -11, -12, -13, and -14.

TMP-4 and -9 appear to have warmed slightly in the past couple of weeks.

The 129' and 149' depth intervals in TMP-13 are no longer functioning. In addition, the 9' depth interval in TMP-13 appears to be compromised as evidenced by forensic voltage tests on the interval.

Attachment C – Gas Interceptor Wellhead Temperature Graphs

The following GIWs indicated virtually identical or slightly trending lower wellhead temperatures as recent previous week(s): GIW-1, -2, -3, -4 -5, -6, -7, -8, -9, -10, and -12. Only GIW-11, and -12 showed a recent warming trend.

Overall, GIW wellhead temperatures have been steady or intermittently increasing. The function of these wells is to remove heat from in front of the reaction and they appear to be consistently performing that function.

Attachment D - Gas Well GEW-54 Wellhead Temperature

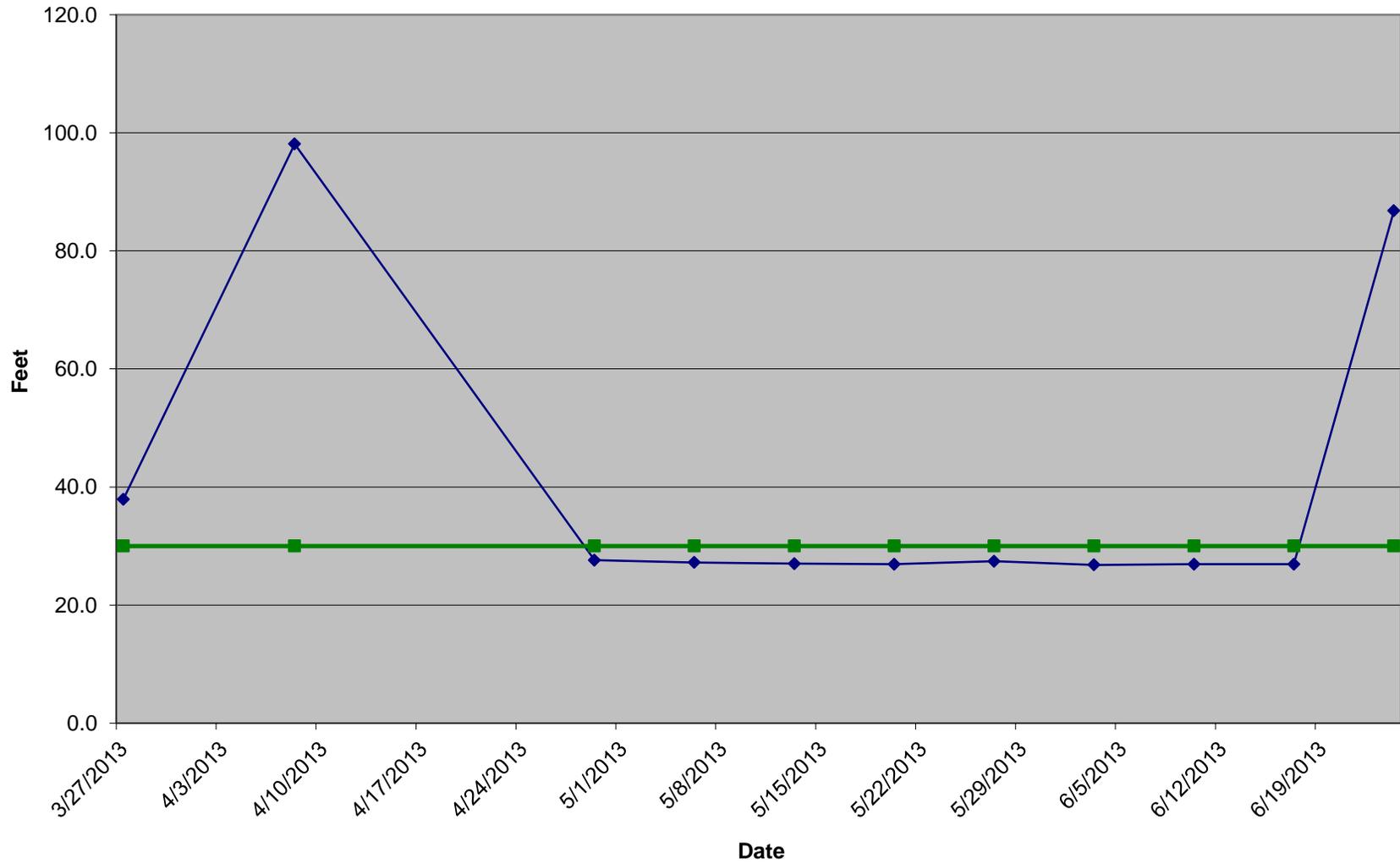
This attachment was first added to the weekly data report on July 23, 2013 to track wellhead temperature in GEW-54 which is located in the North Quarry, has historically exhibited somewhat elevated temperatures, and which, on June 18, 2013, exhibited a wellhead temperature of 155°F.

As seen in Attachment D, the most recent wellhead temperature is 146° F. The past four weekly monitoring events indicate a 143-151° F temperature range which is within the range of fluctuation experienced over the past several months.

ATTACHMENT A

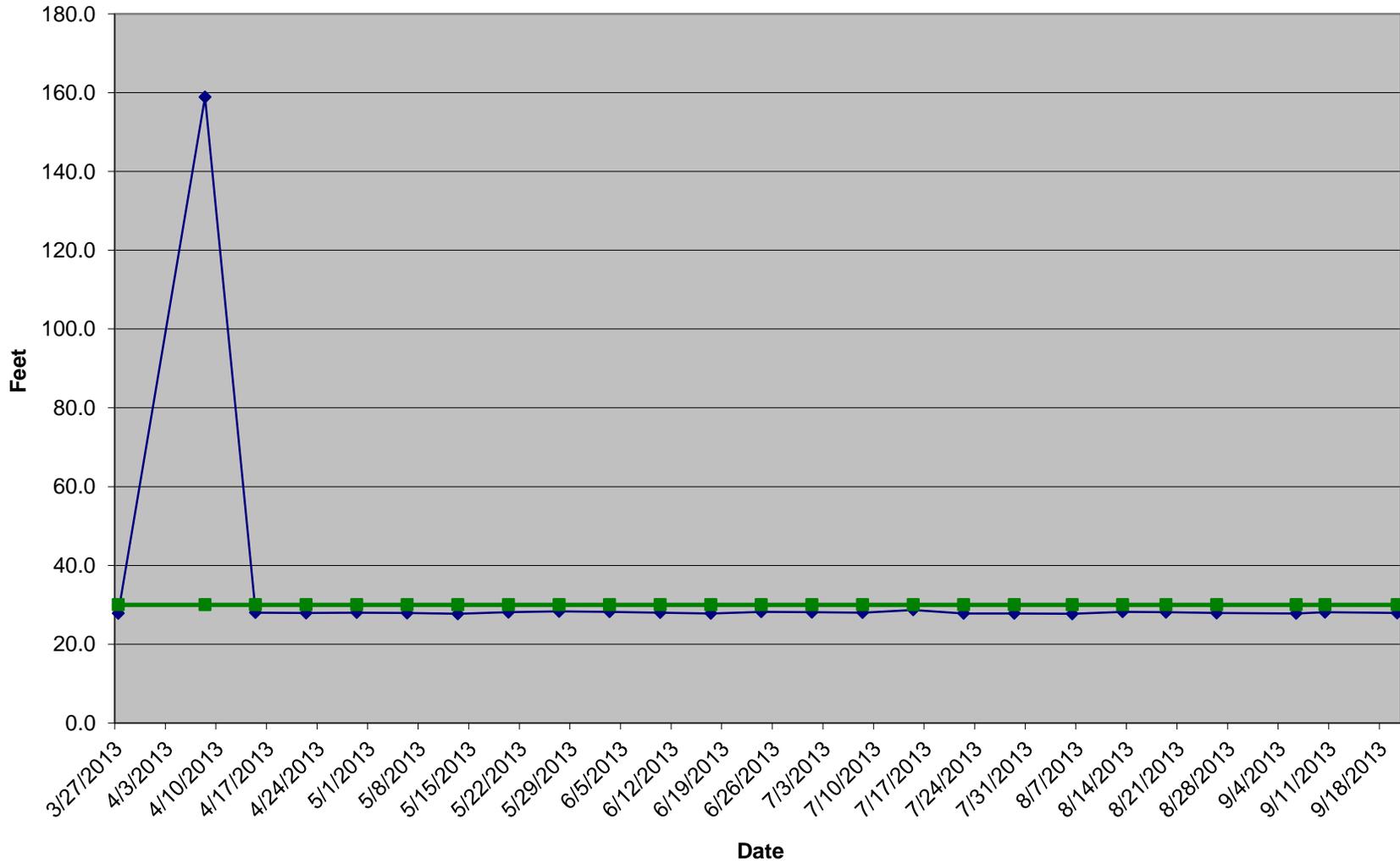
LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS

LCS-1D Liquid Level Above Quarry Floor



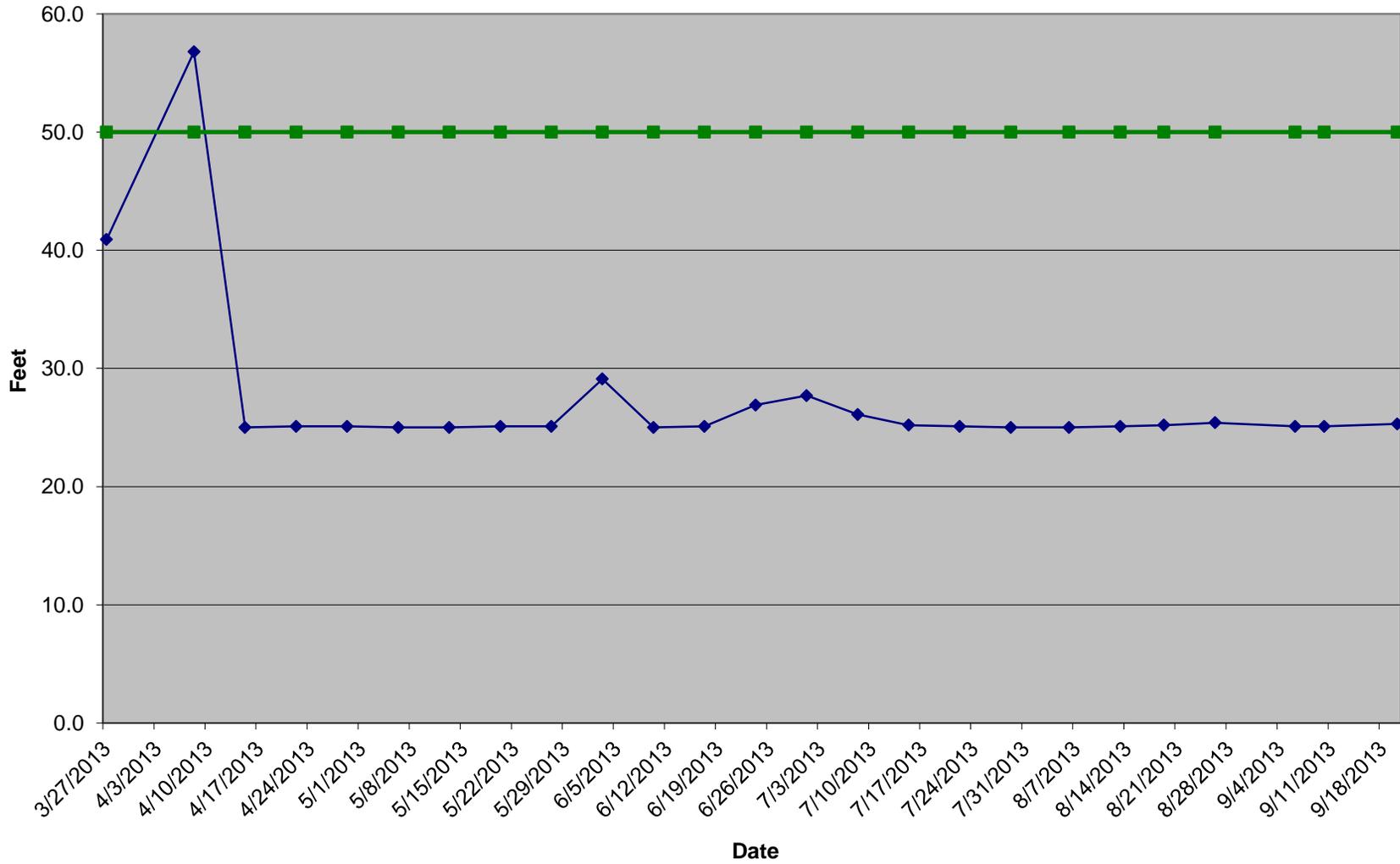
◆ Height of Liquid (Ft.) ■ Compliance Level (Ft. Above Quarry Floor)

LCS-2D Liquid Level Above Quarry Floor



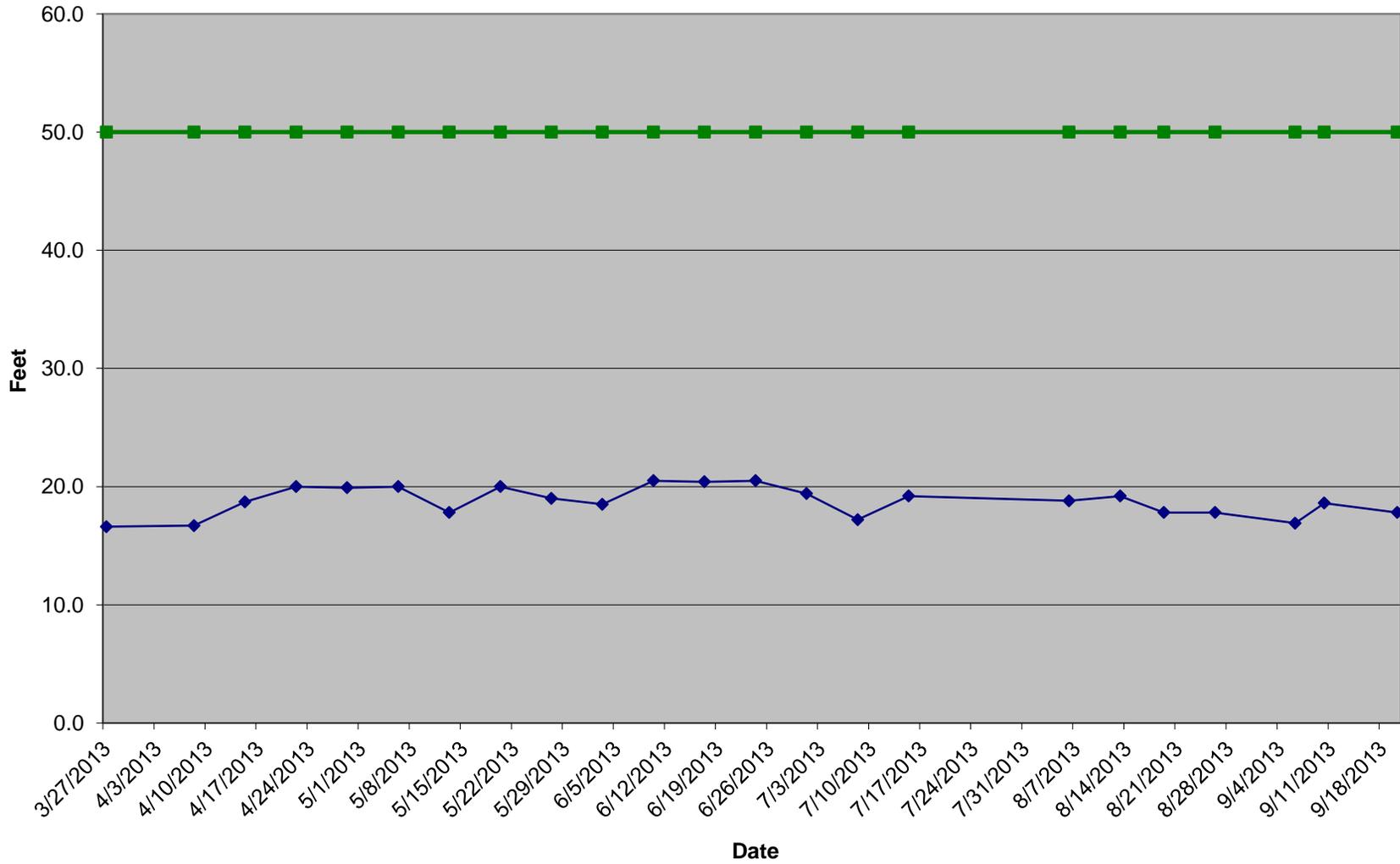
—◆— Height of Liquid (Ft.) —■— Compliance Level (Ft. Above Quarry Floor)

LCS-5A Liquid Level Above Quarry Floor



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

LCS-6B Liquid Level Above Quarry Floor

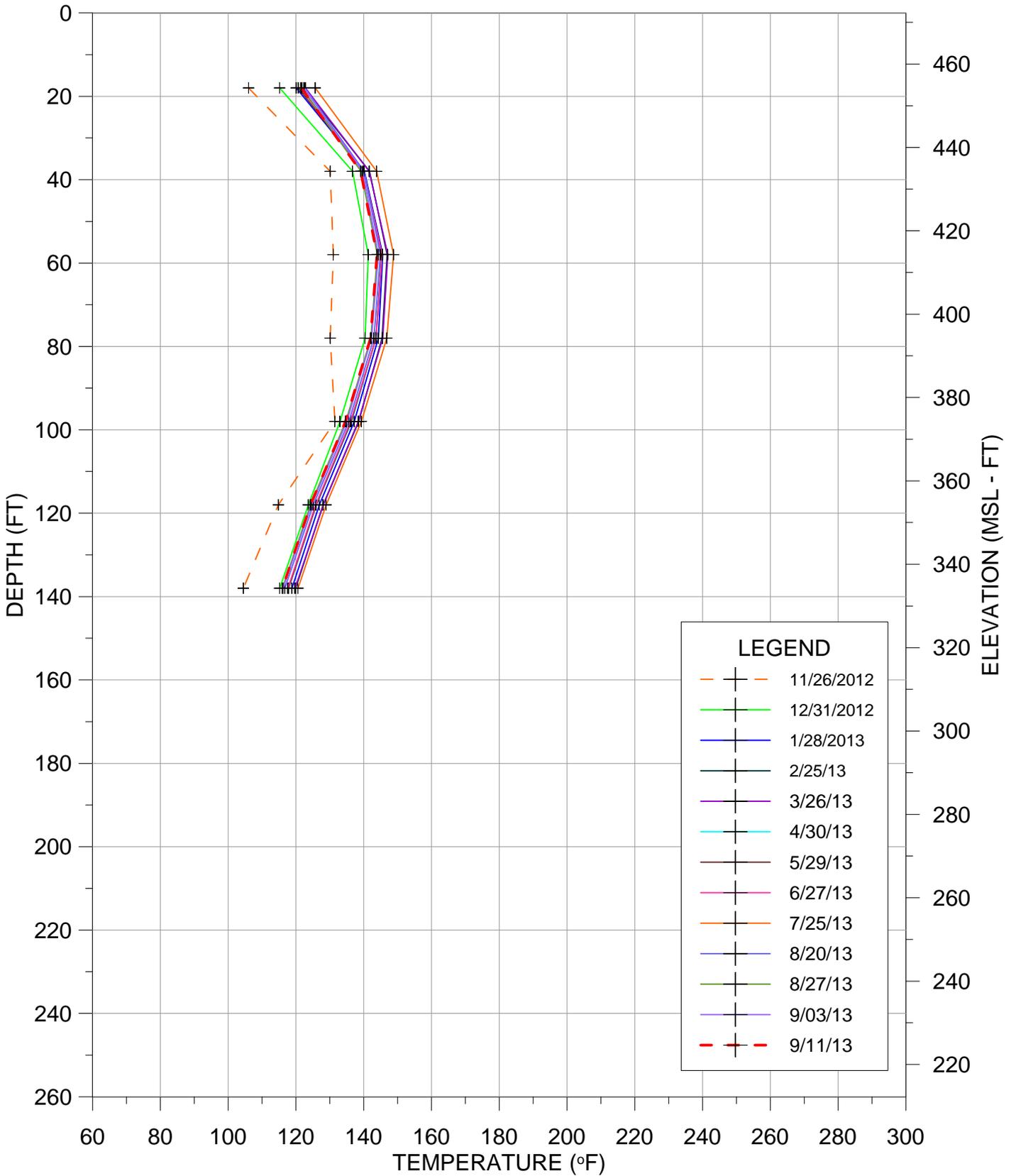


◆ Height of Liquid (Ft.) ■ Compliance Level (Ft. Above Quarry Floor)

ATTACHMENT B

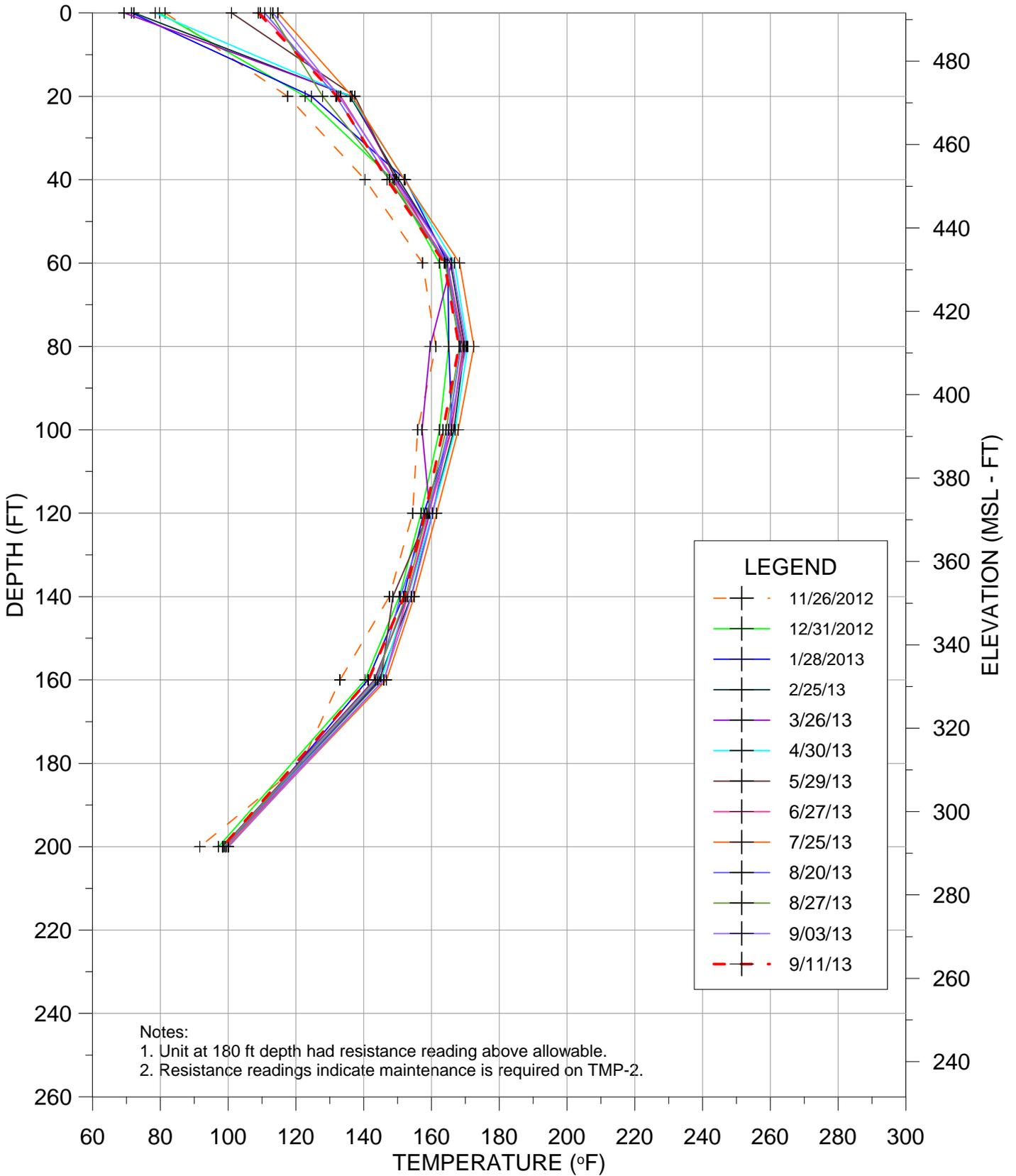
TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS

TMP-1



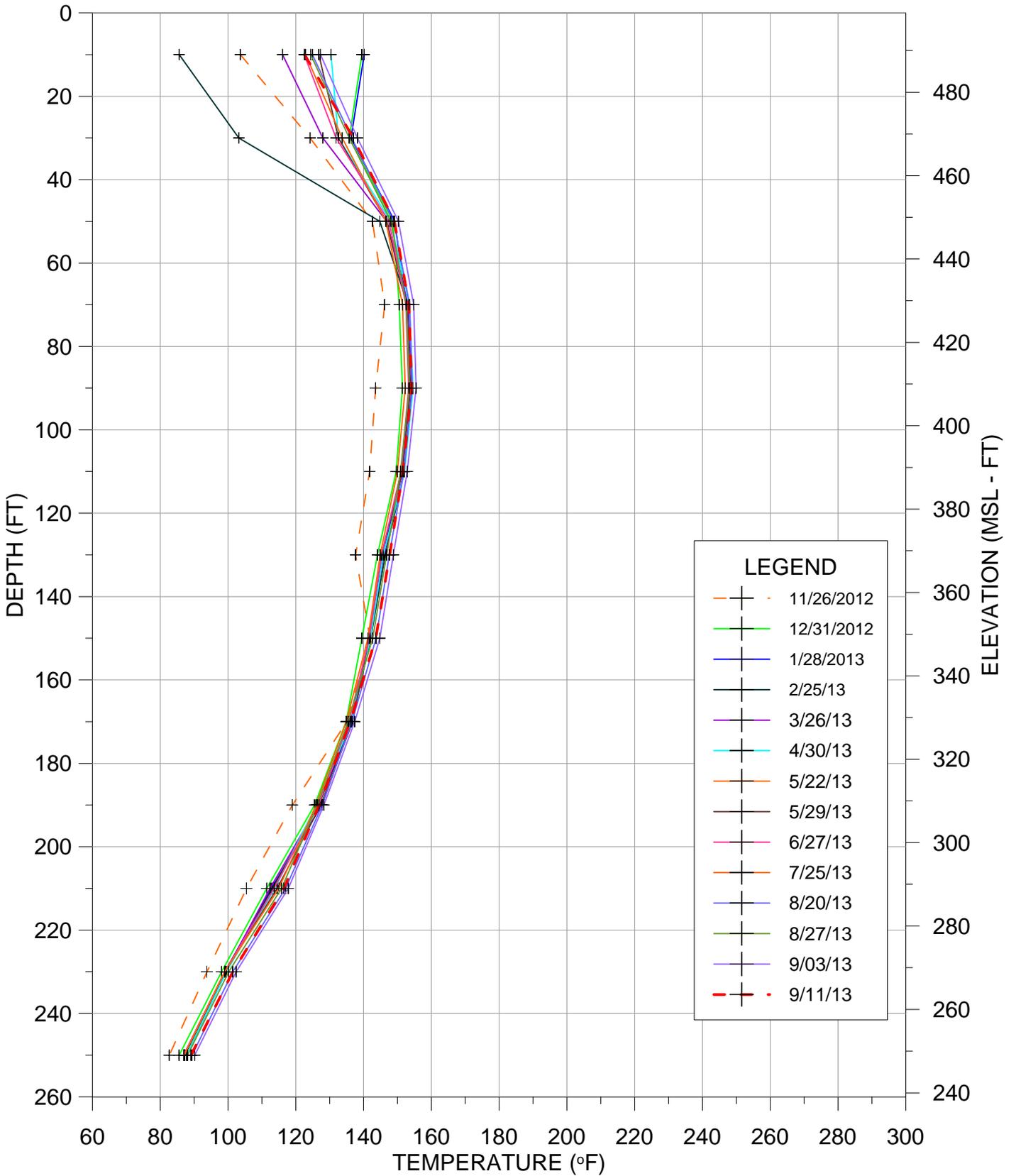
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-2



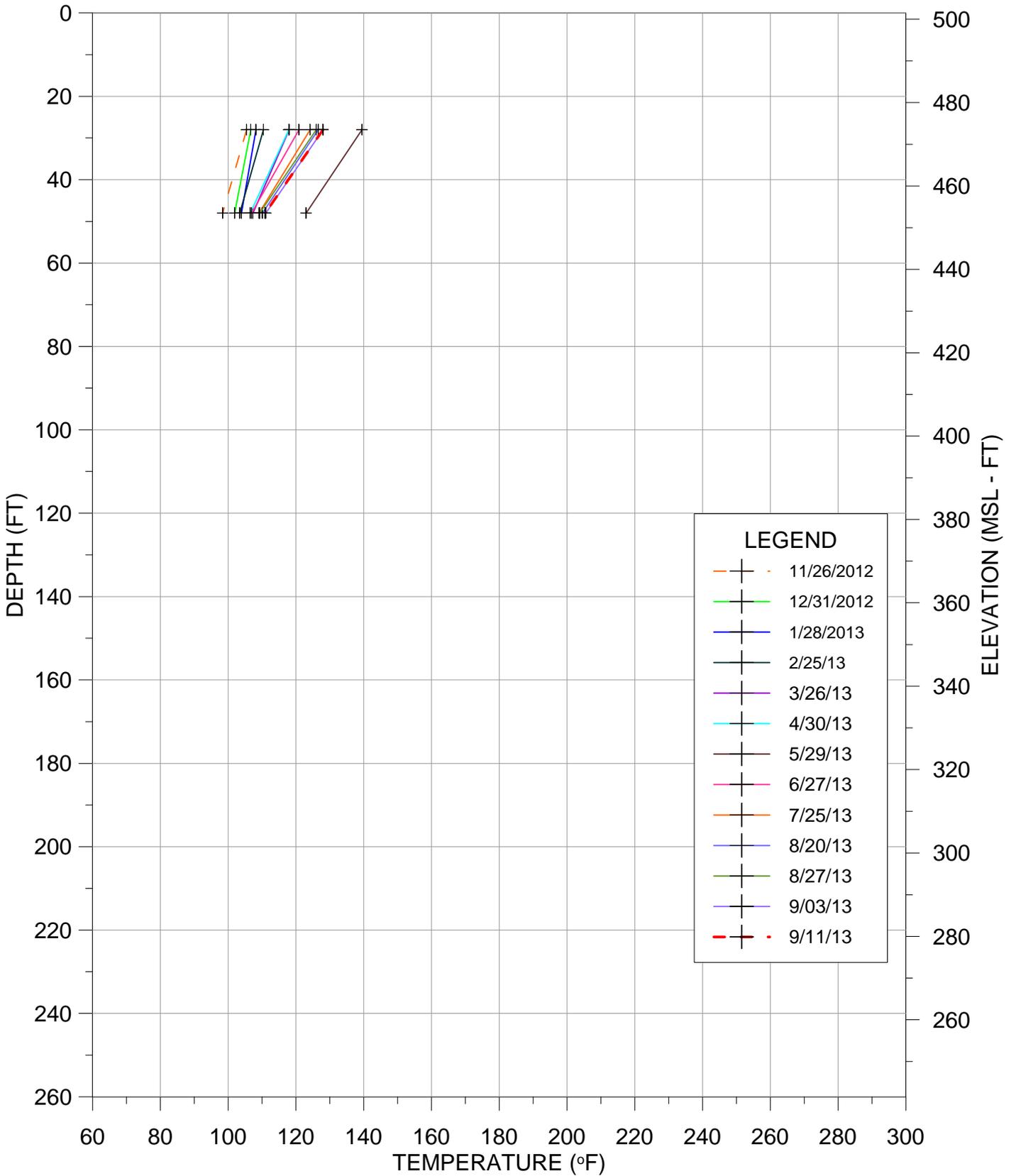
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-3



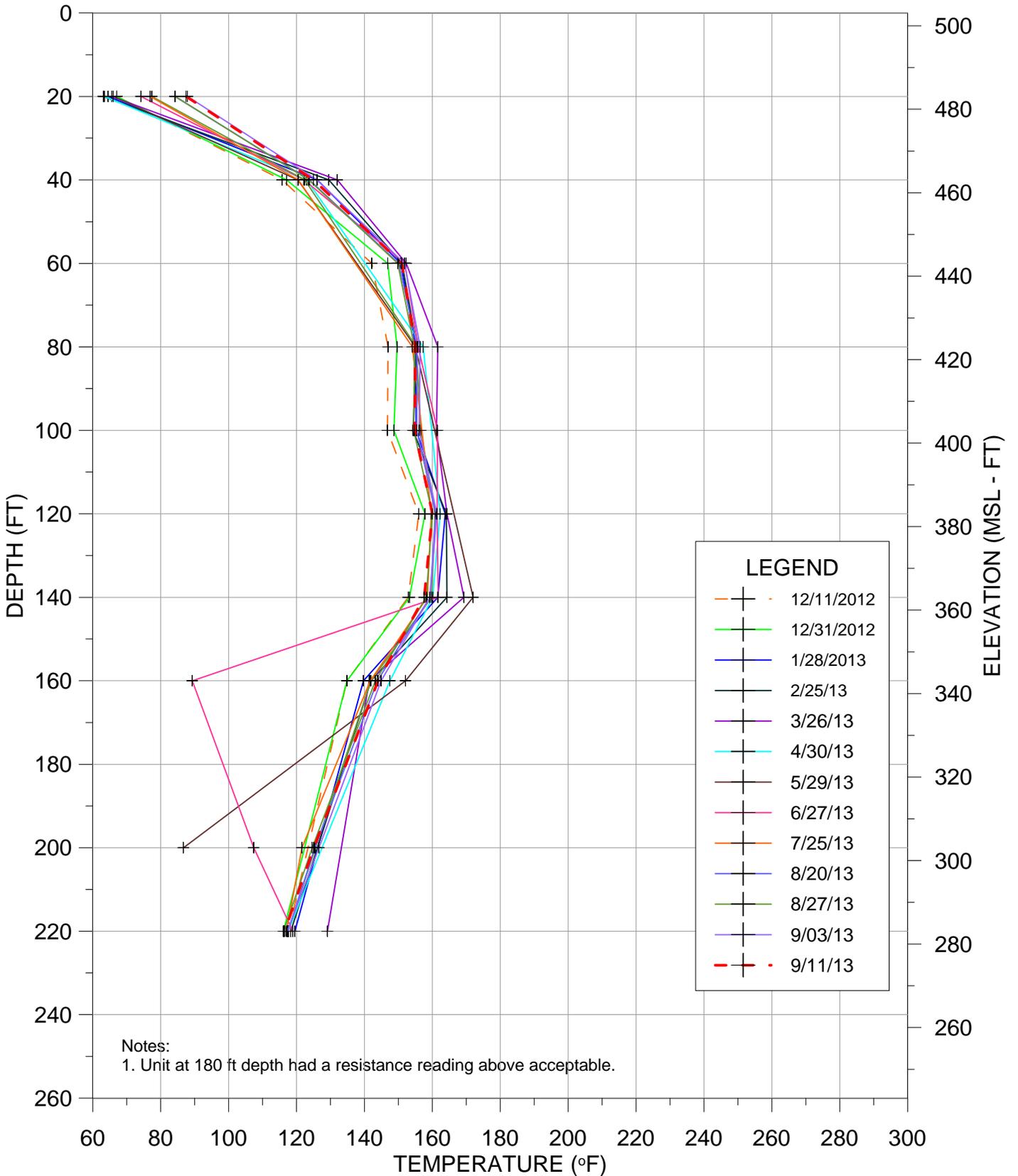
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-4



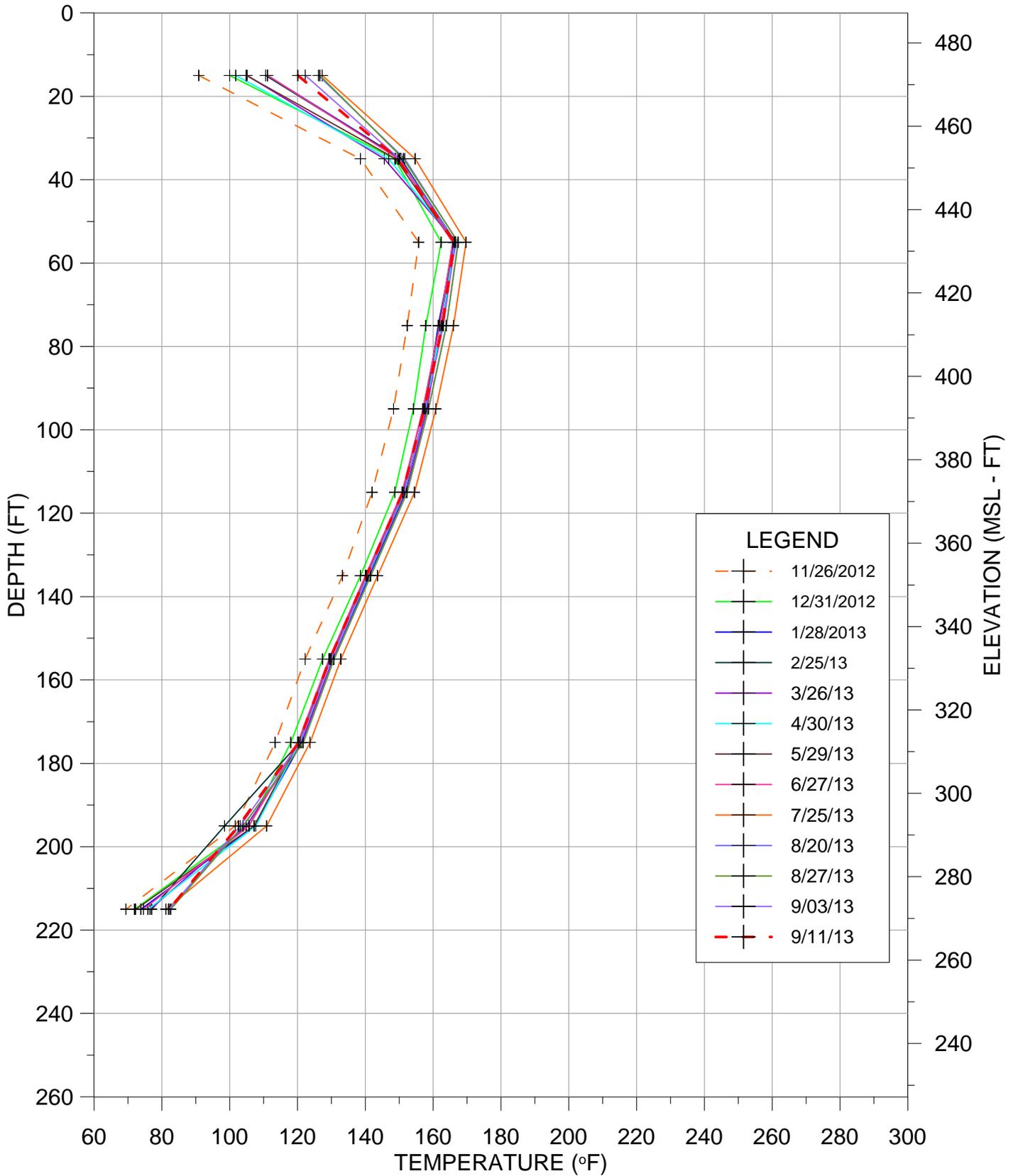
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-5



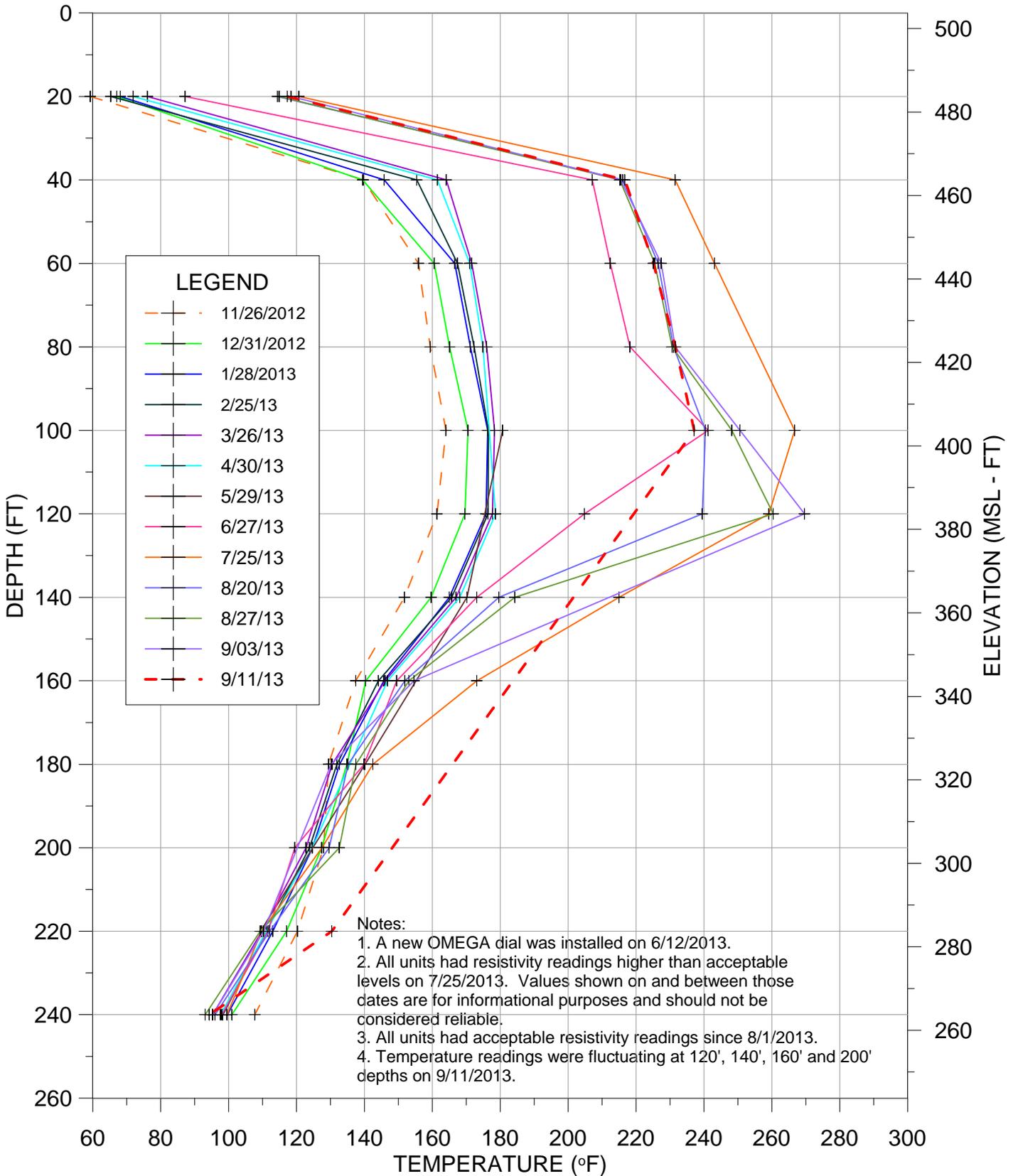
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-6



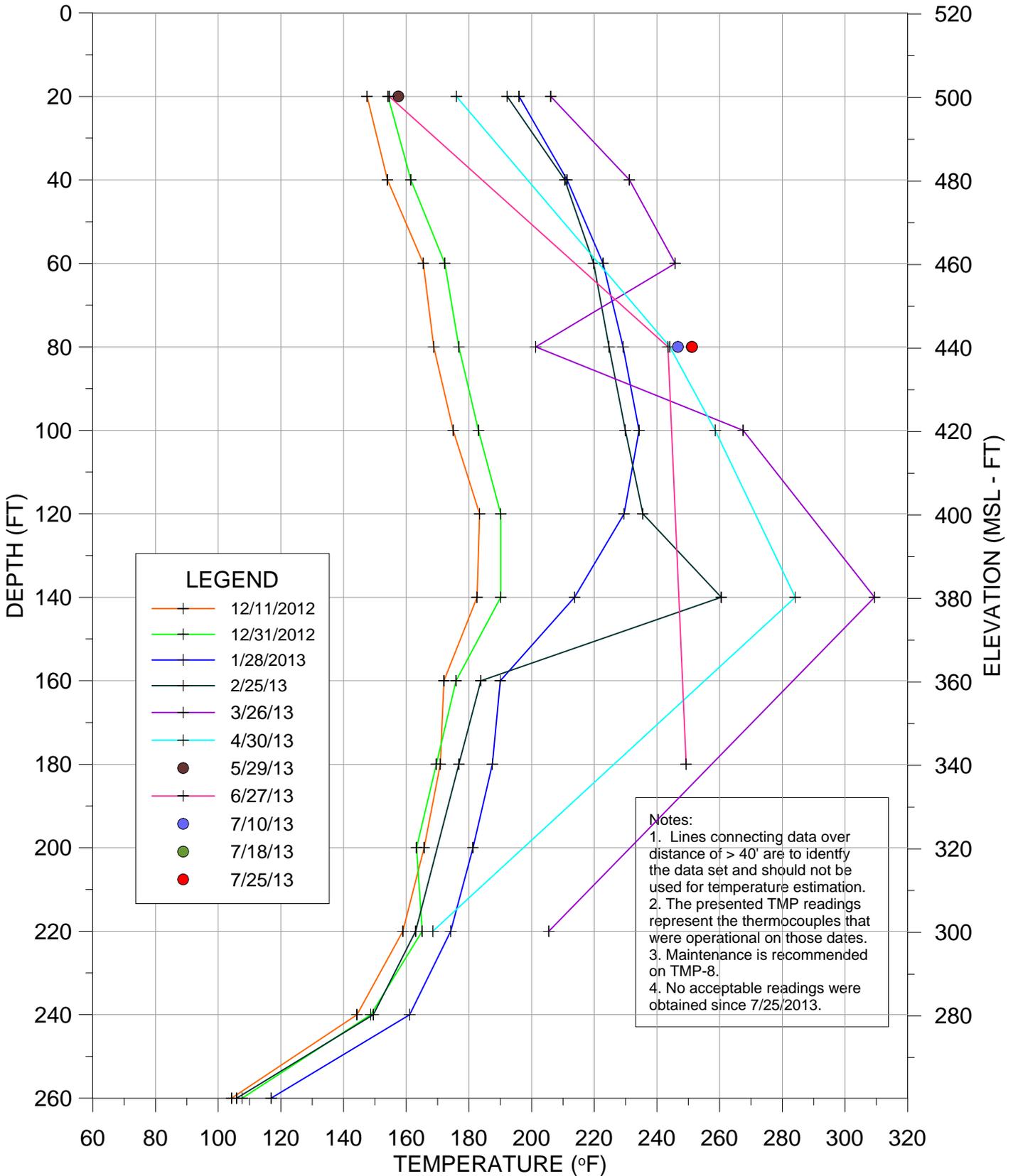
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-7R



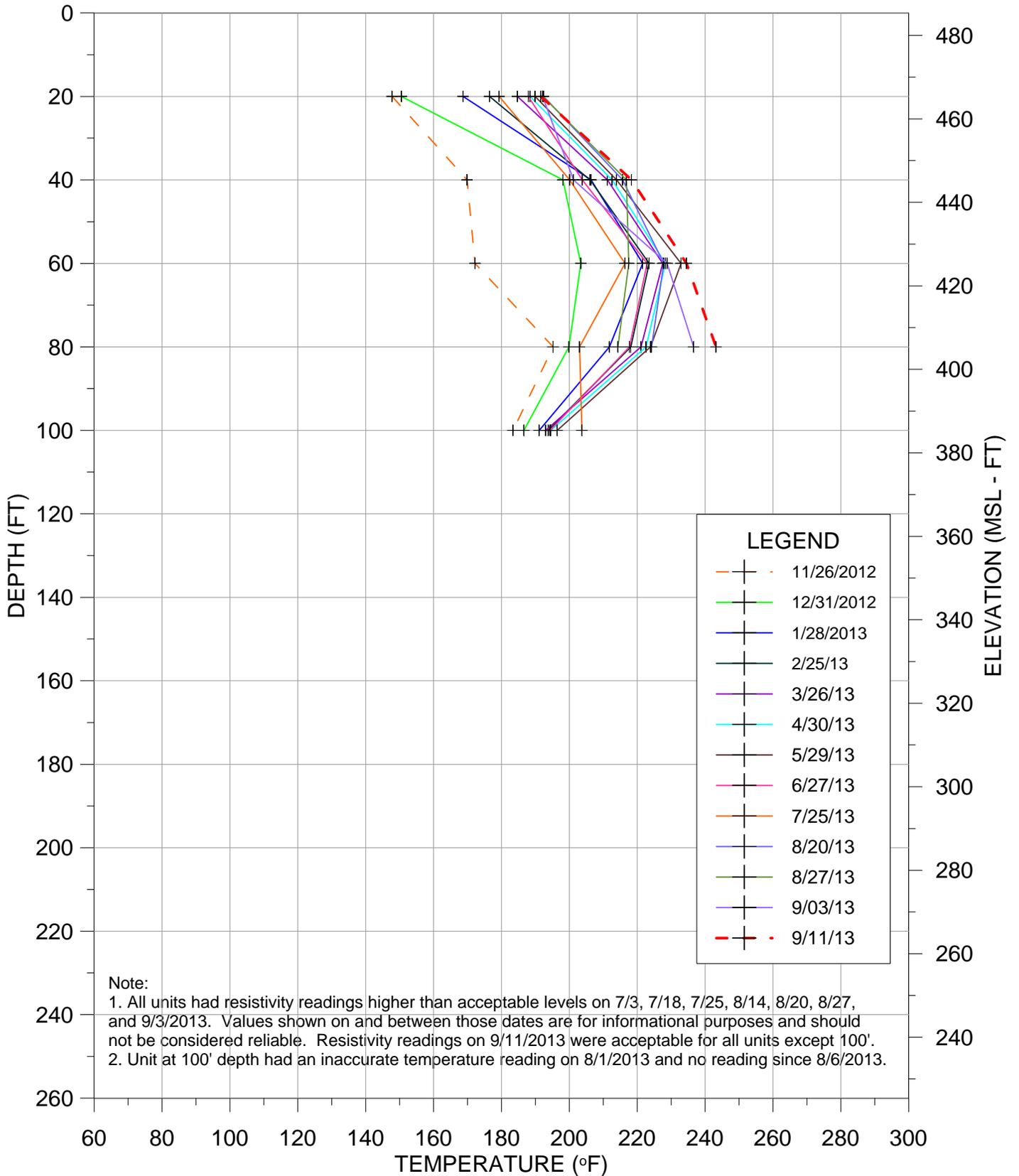
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-8



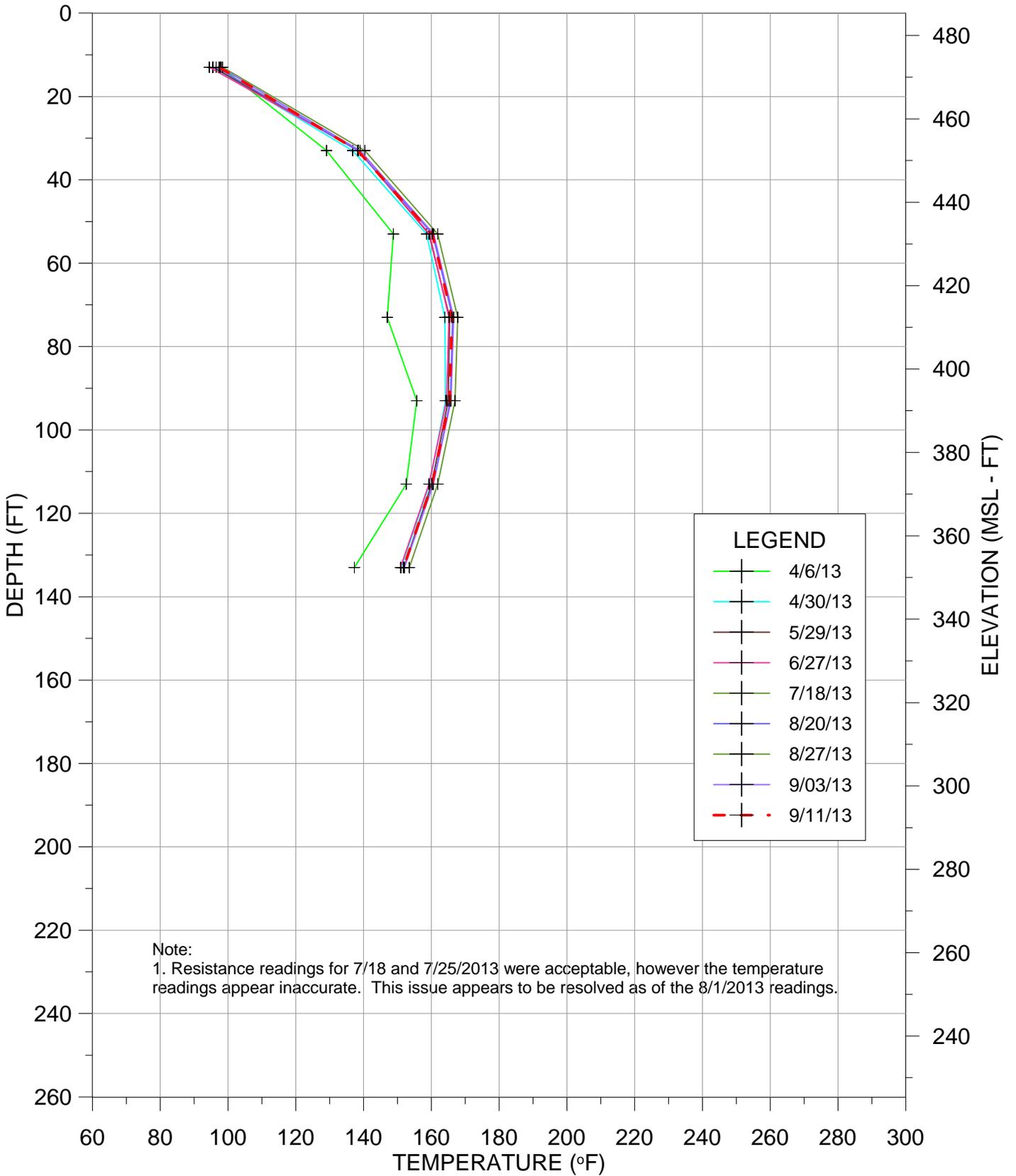
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-9



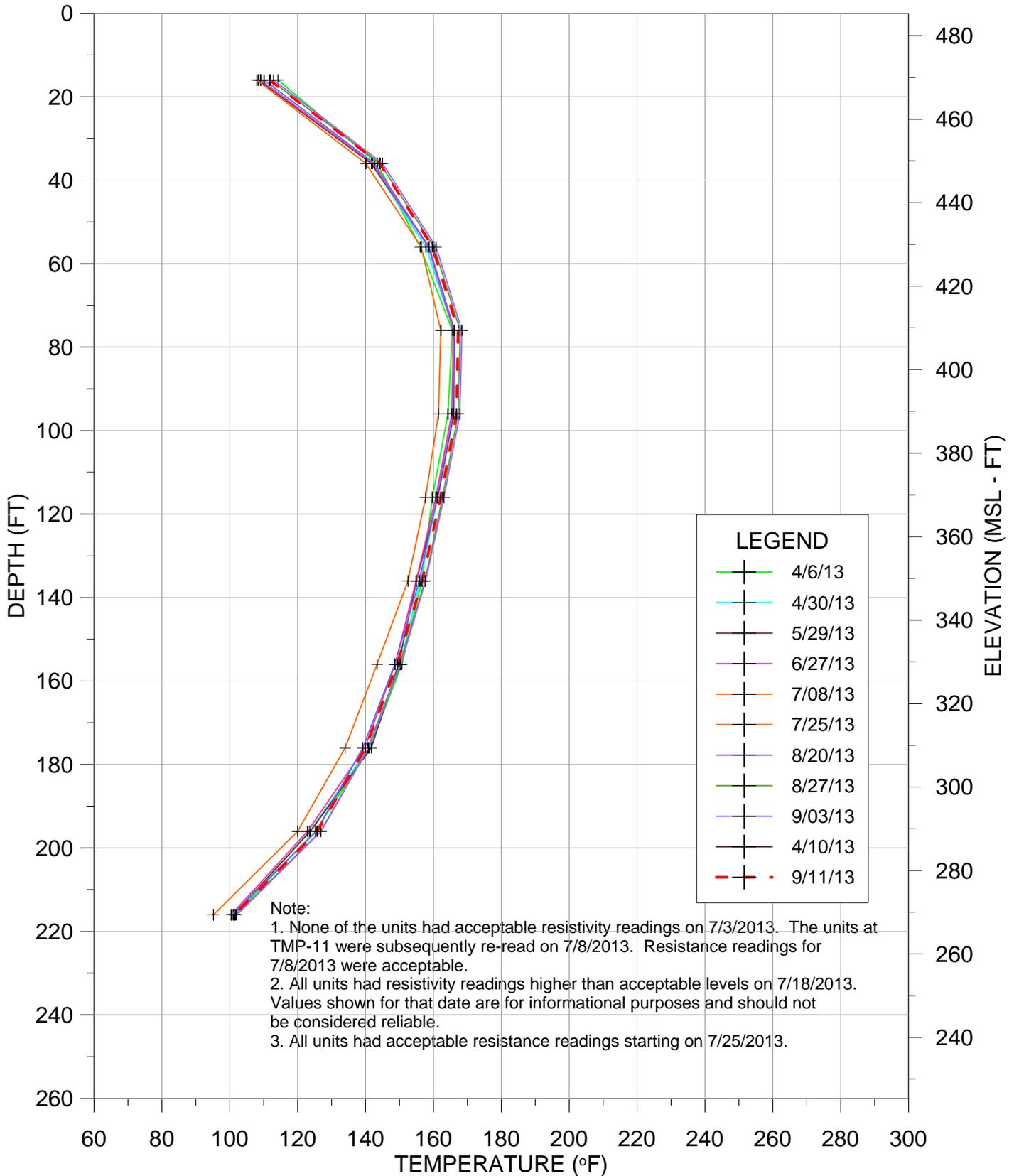
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-10



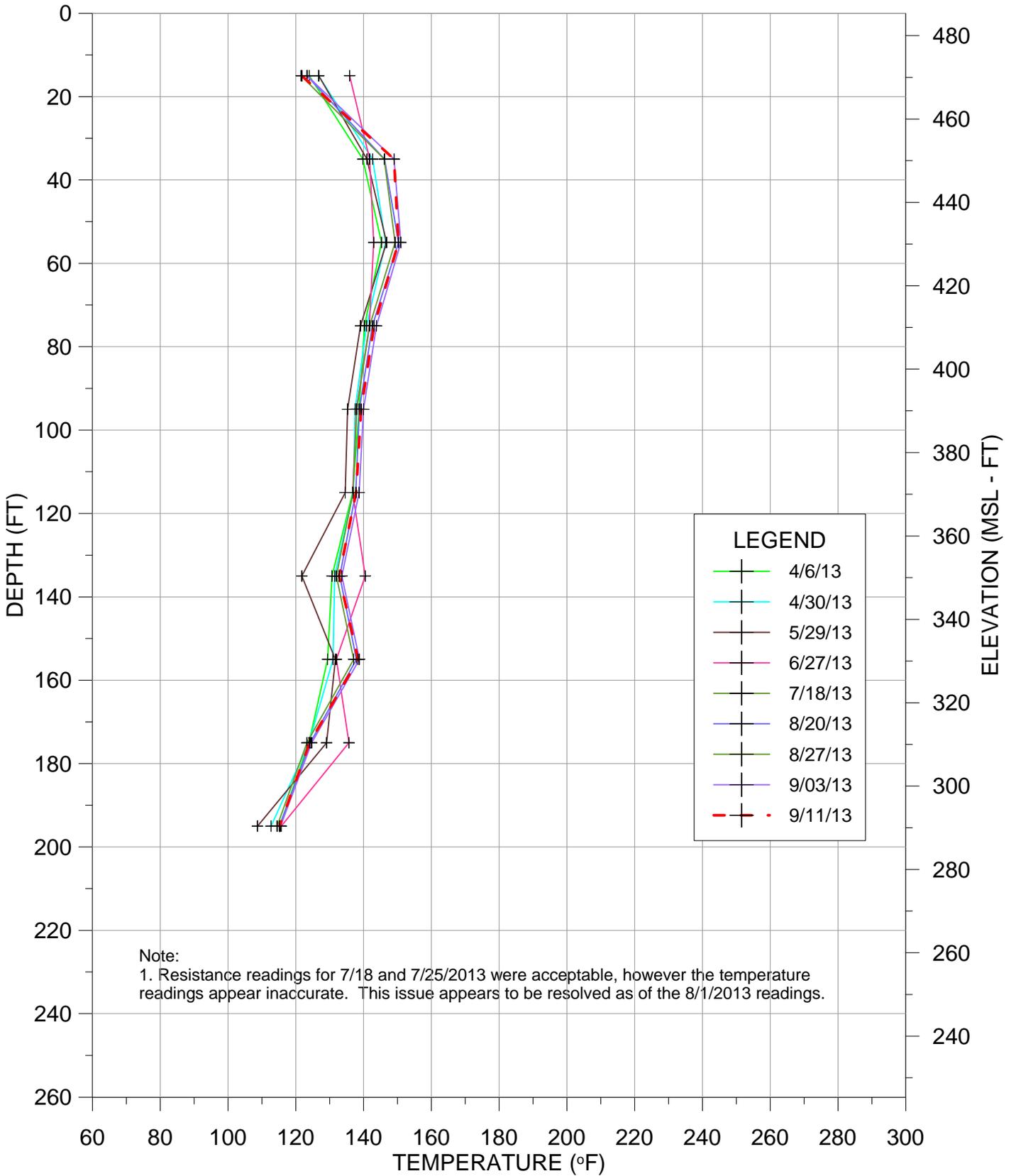
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-11



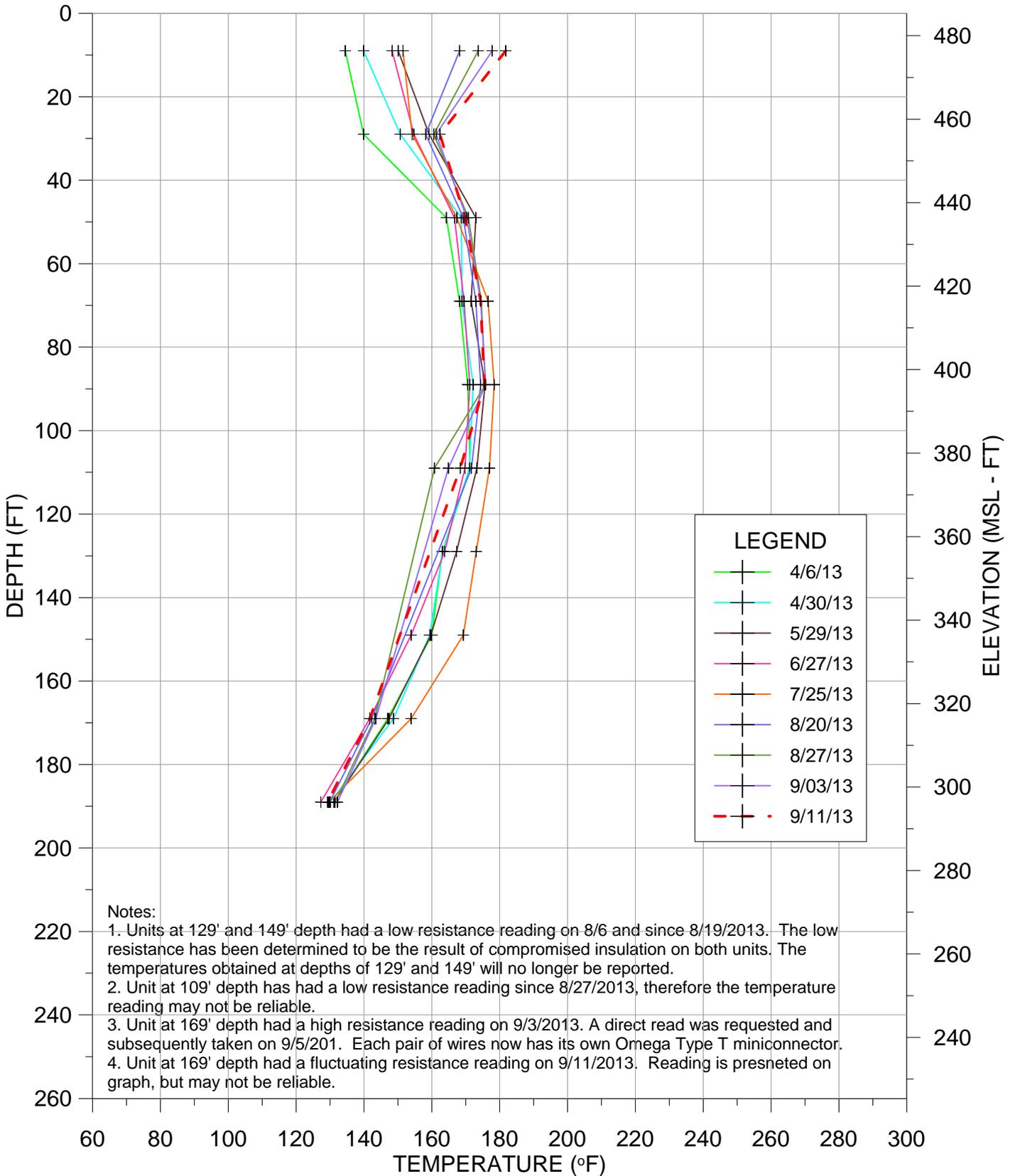
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-12



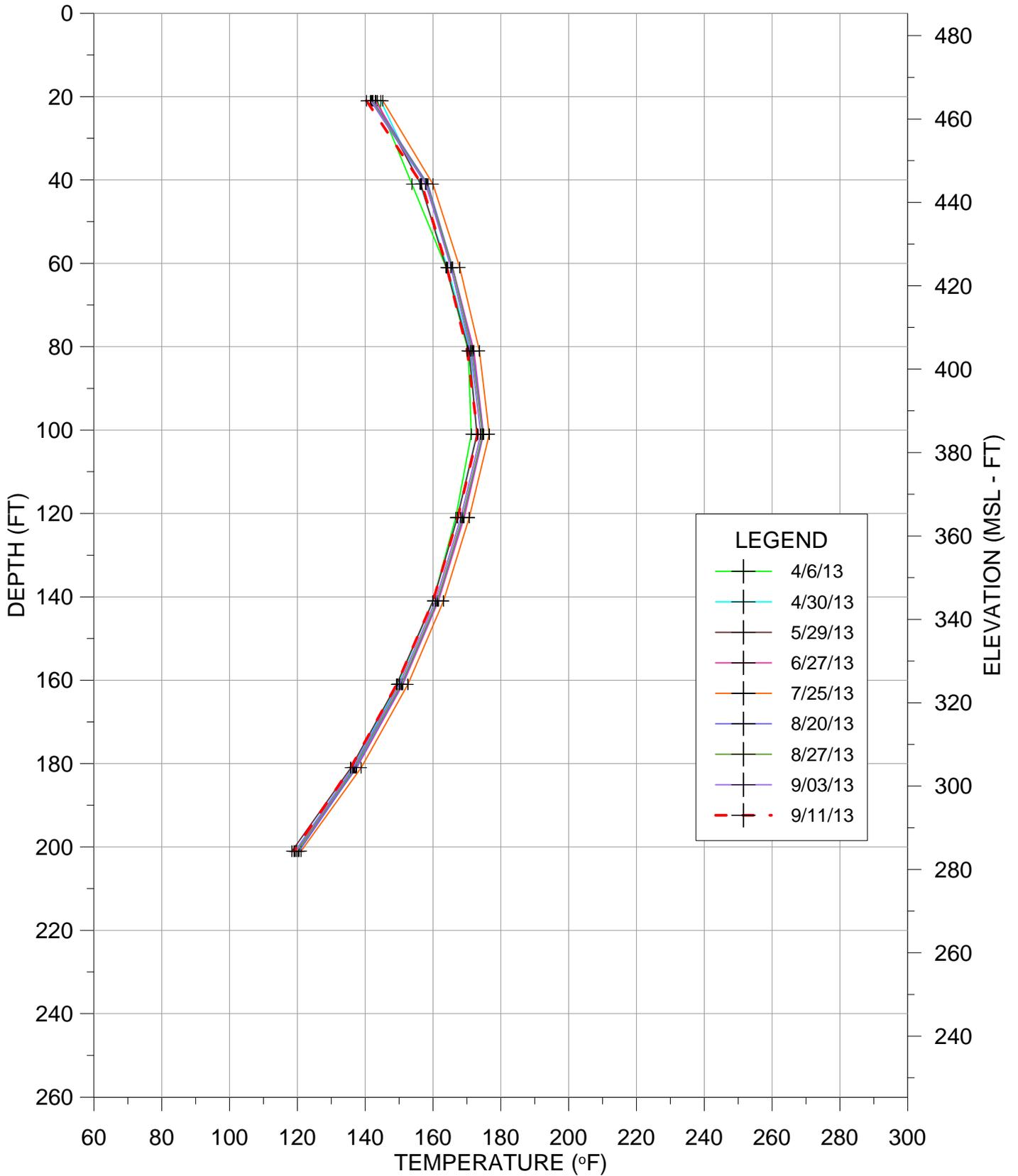
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-13



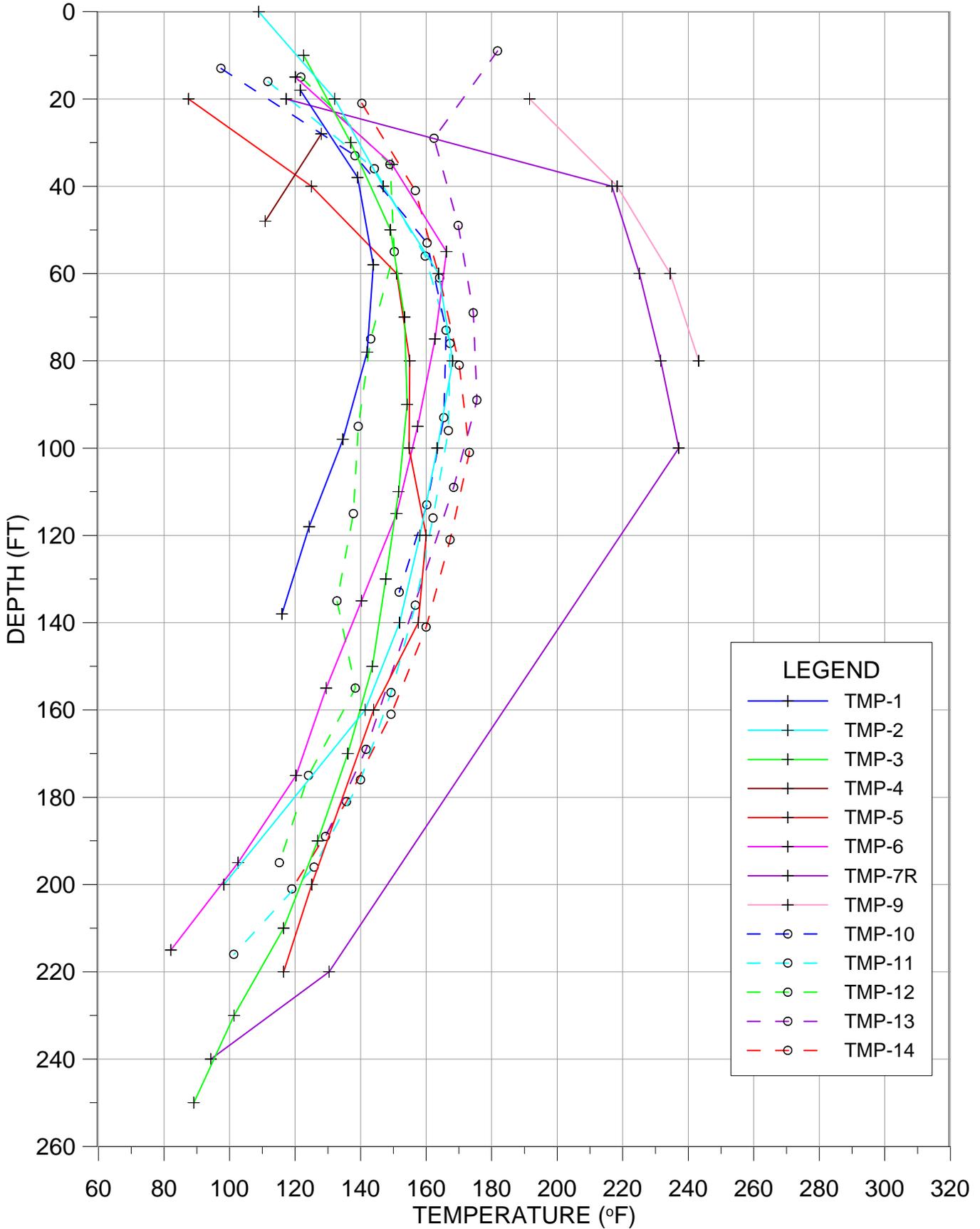
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-14



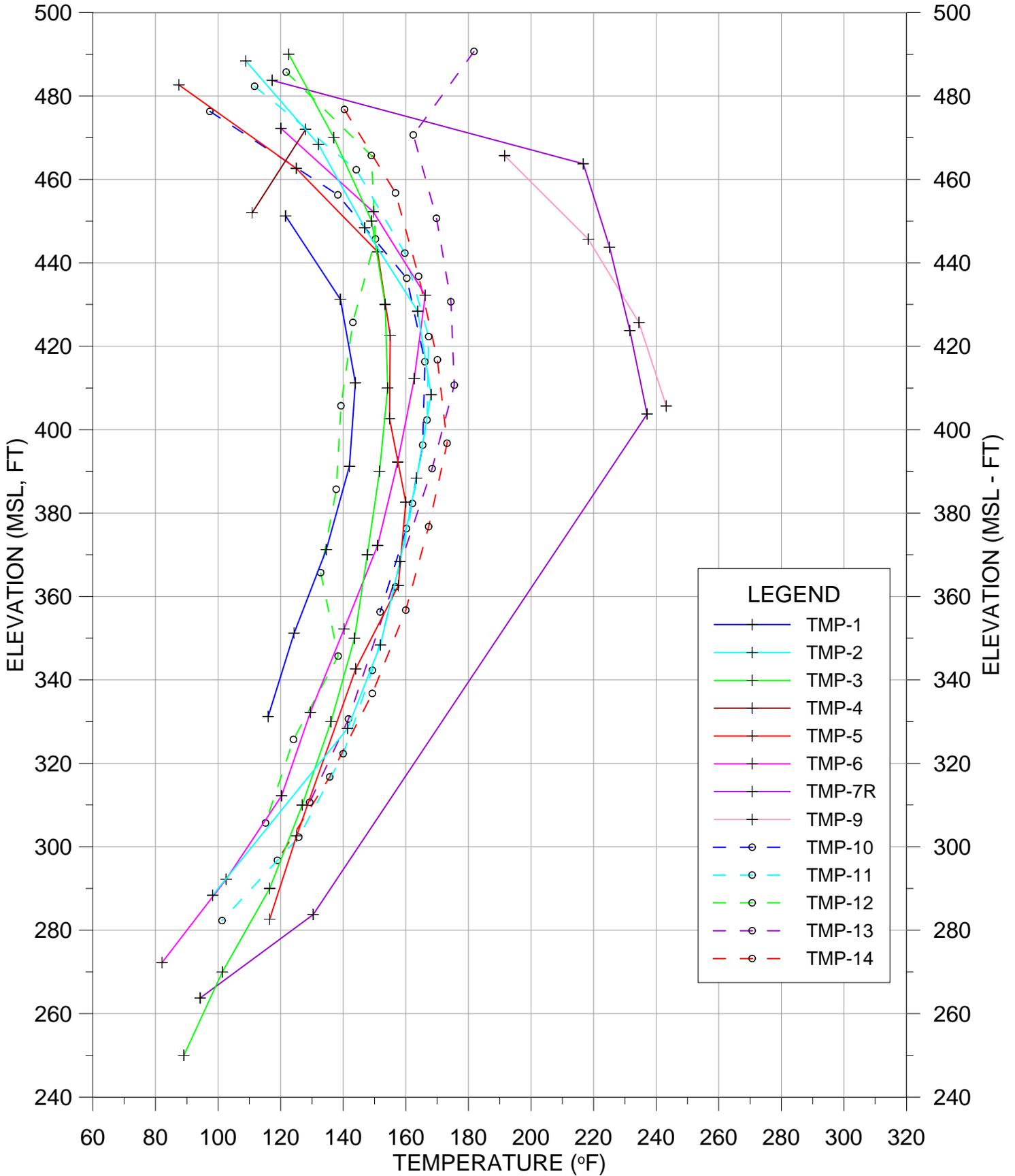
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

9/11/2013 -DEPTH



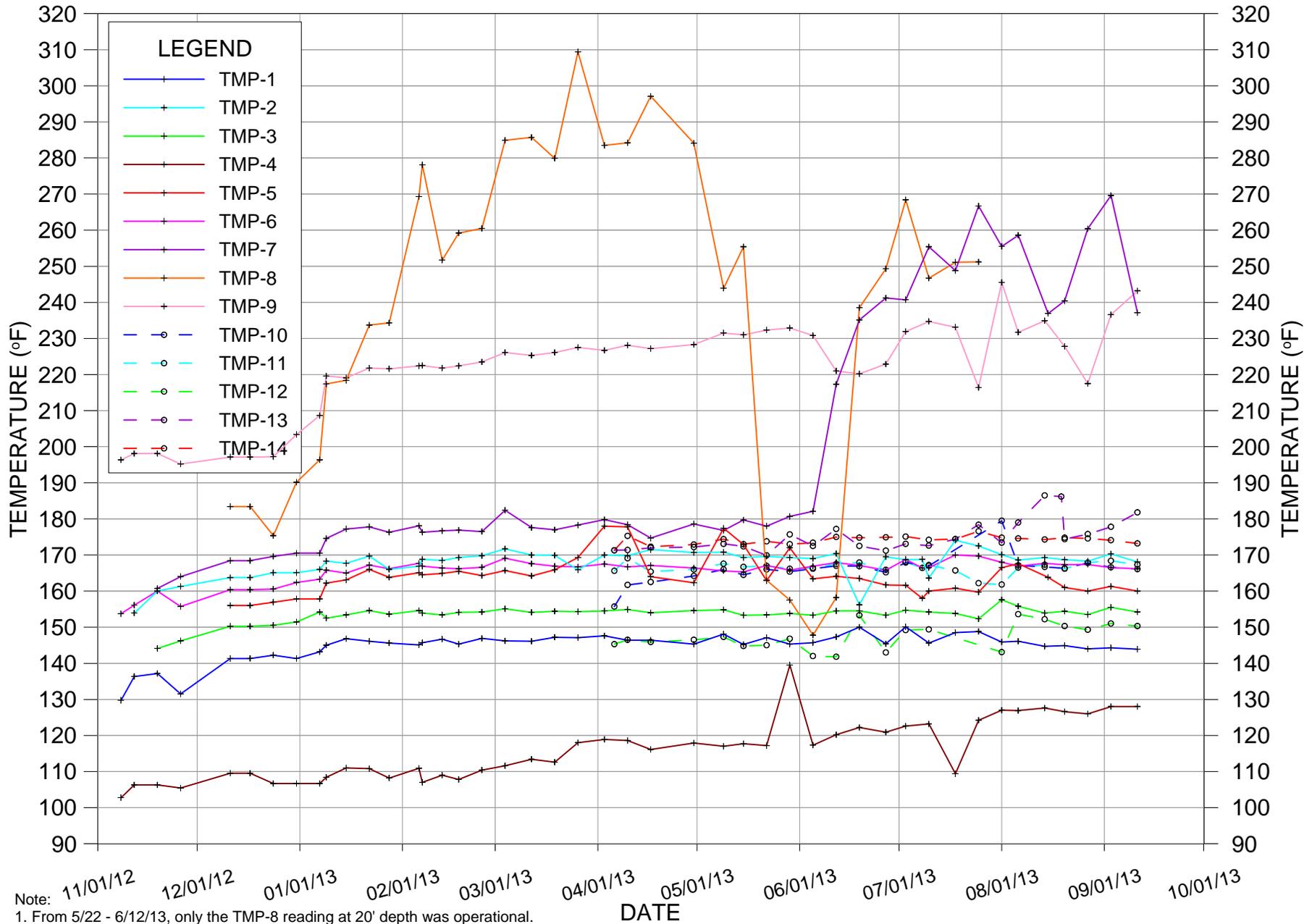
TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

9/11/2013 - ELEVATION



TEMPERATURE VS ELEVATION
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

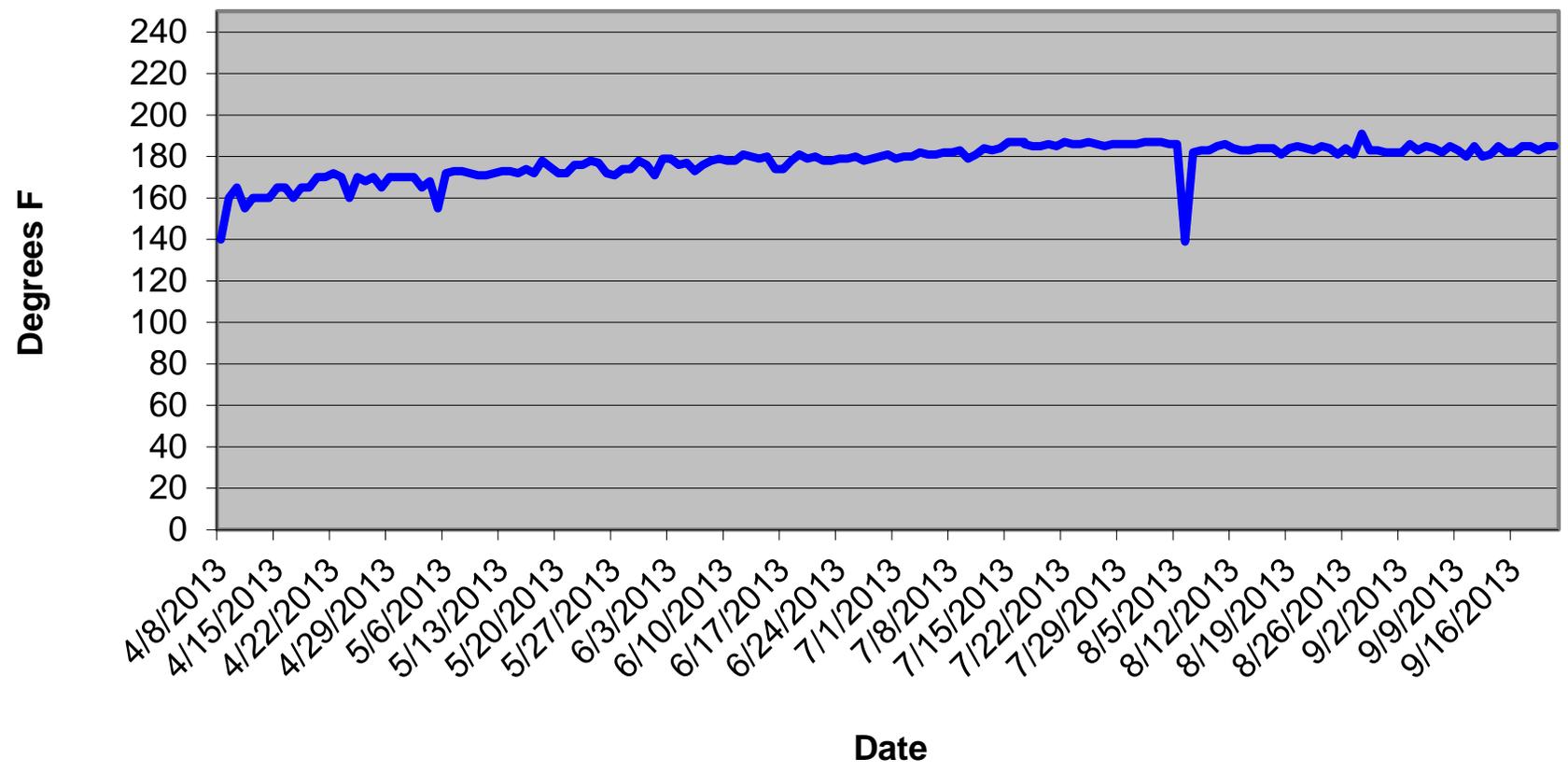
- From 5/22 - 6/12/13, only the TMP-8 reading at 20' depth was operational. No valid readings were obtained for TMP-8 since 8/1/2013.
- A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more valid readings.
- No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.
- 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

ATTACHMENT C

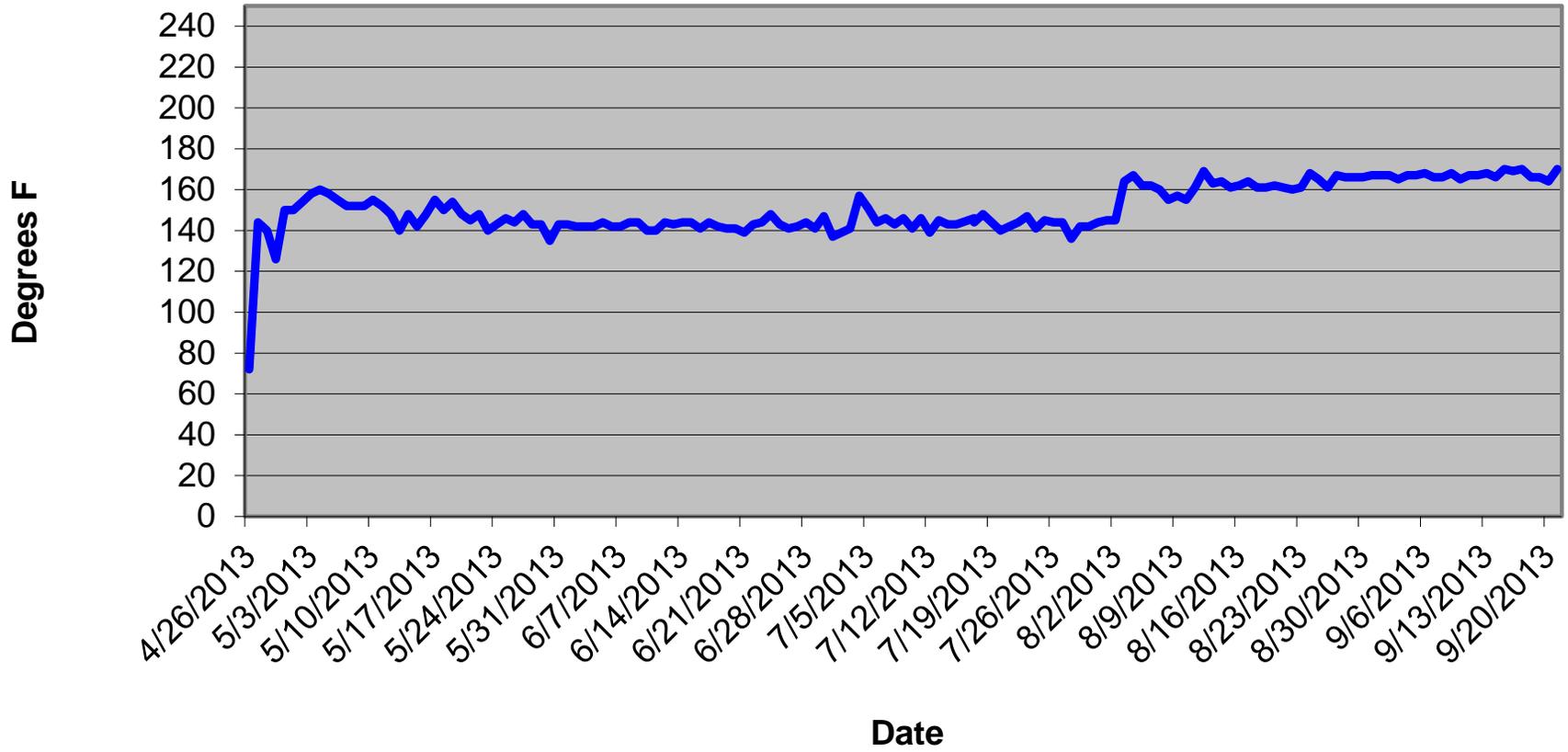
GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS

GIW-1 Wellhead Temperatures



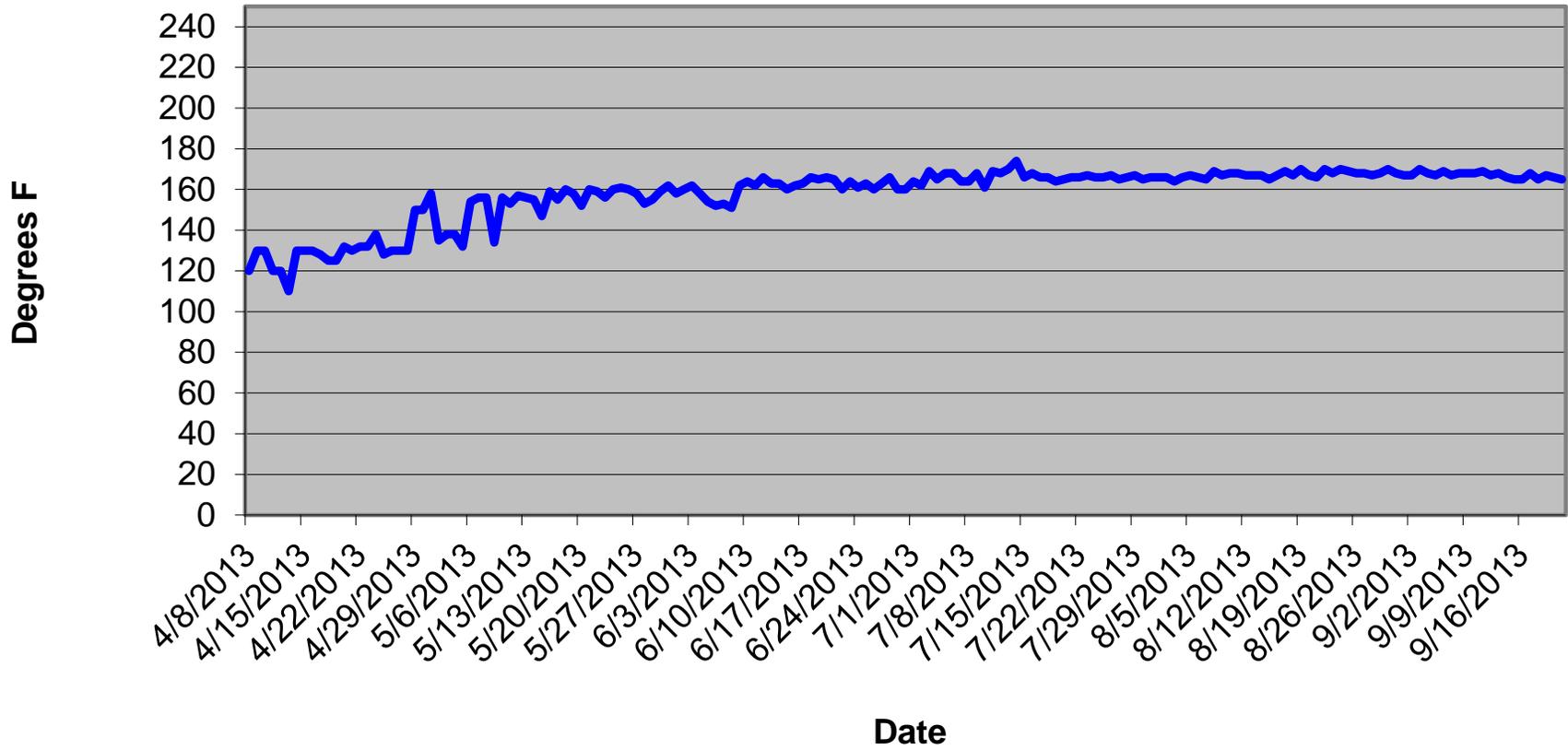
— Wellhead Temp. (F)

GIW-2 Wellhead Temperatures



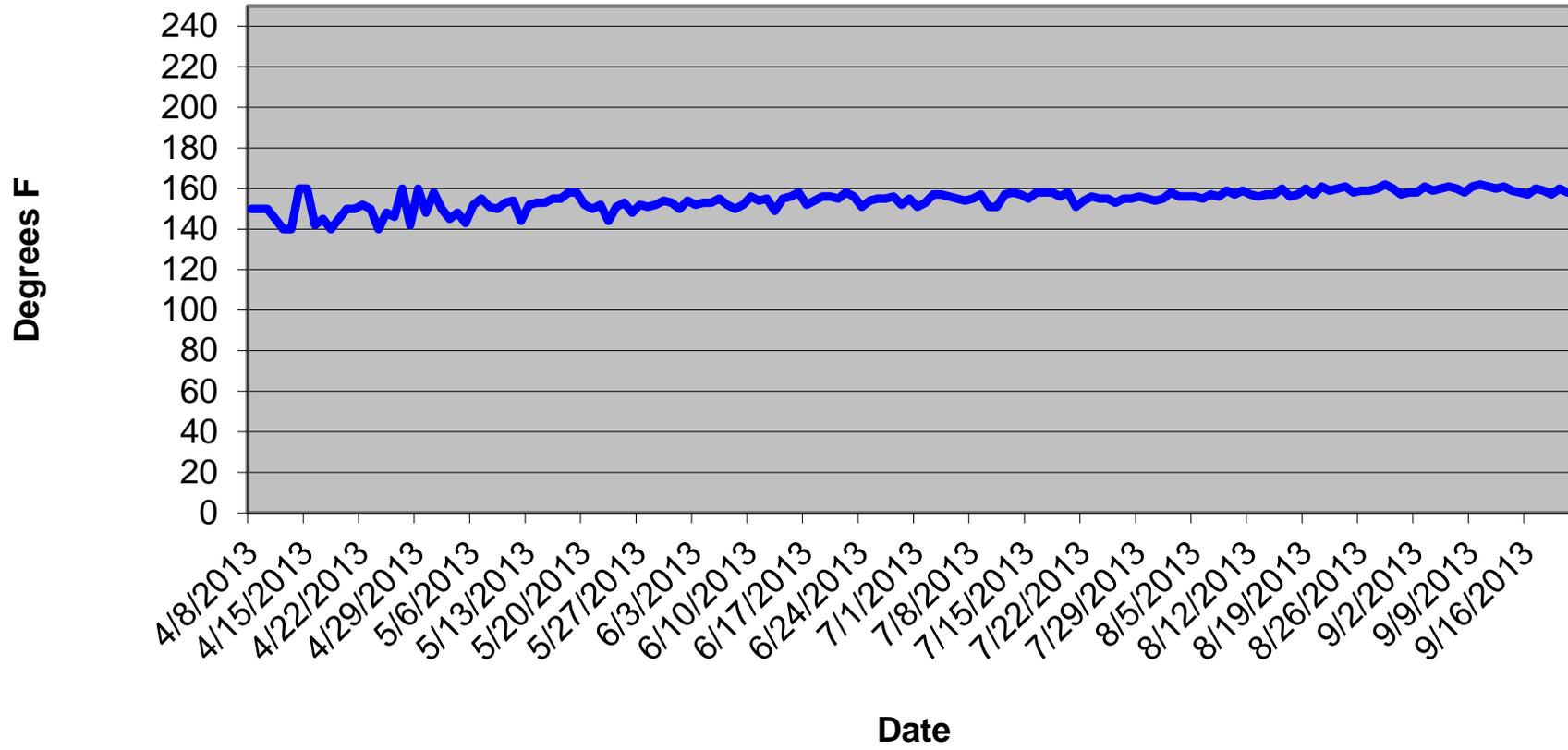
Wellhead Temp. (F)

GIW-3 Wellhead Temperatures



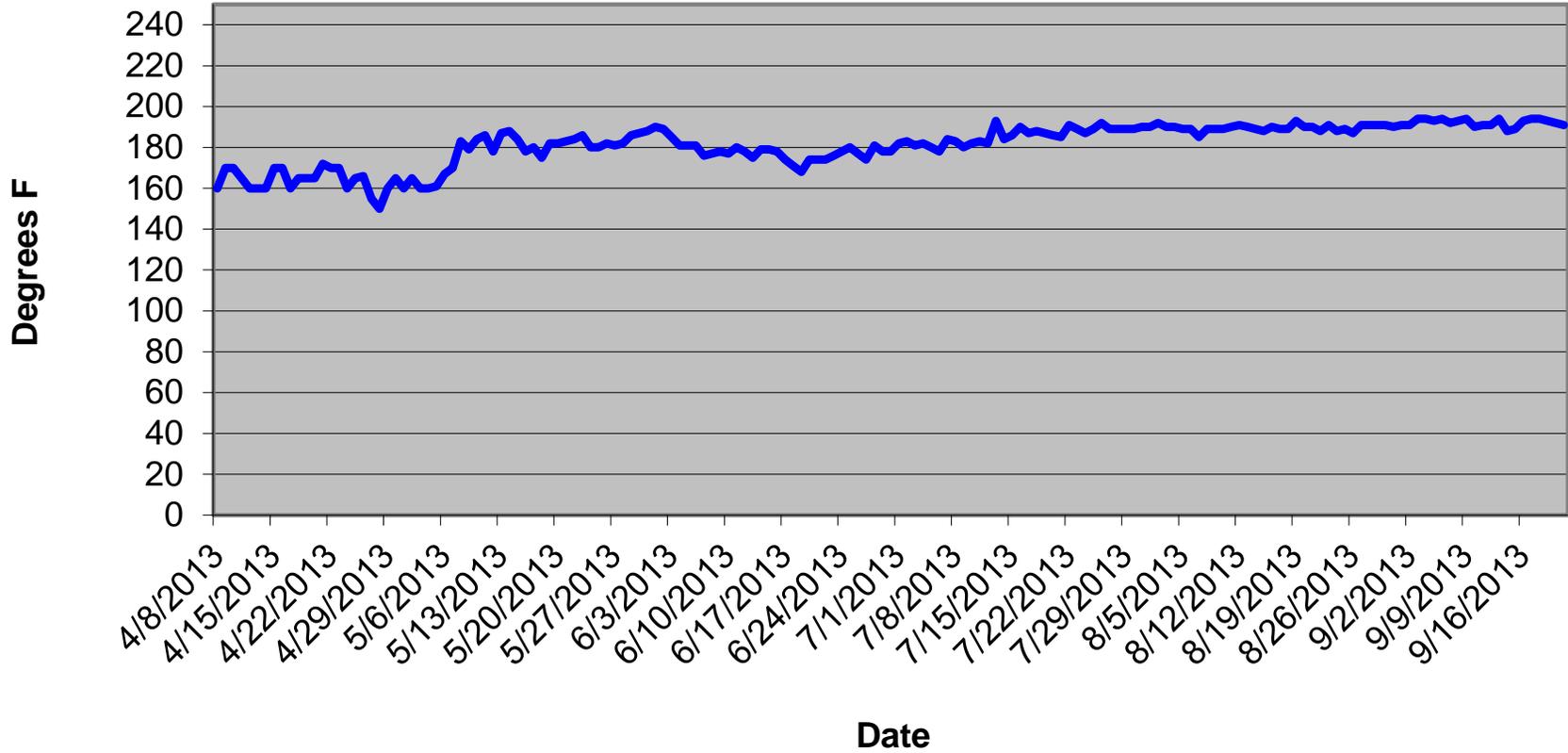
Wellhead Temp. (F)

GIW-4 Wellhead Temperatures



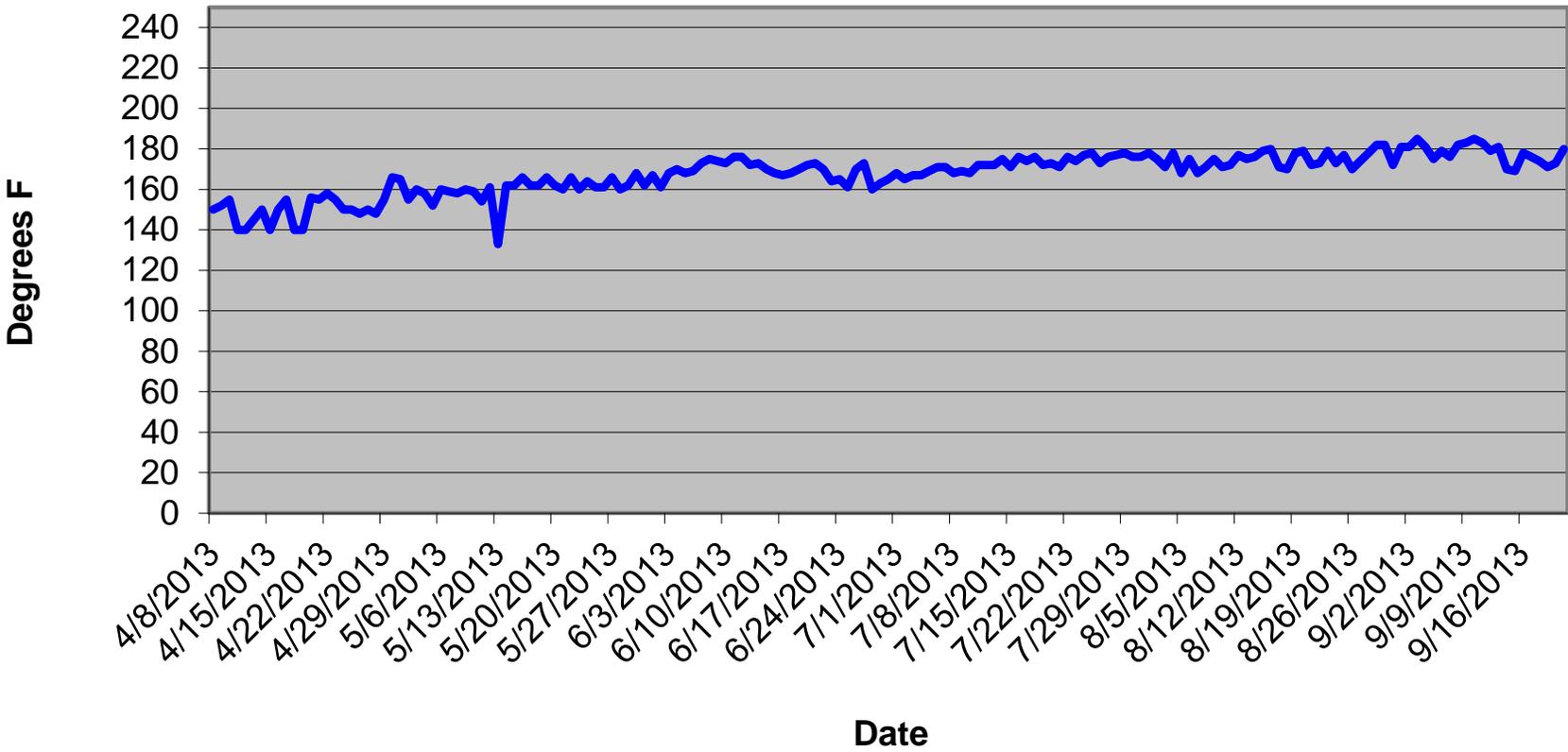
Wellhead Temp. (F)

GIW-5 Wellhead Temperatures



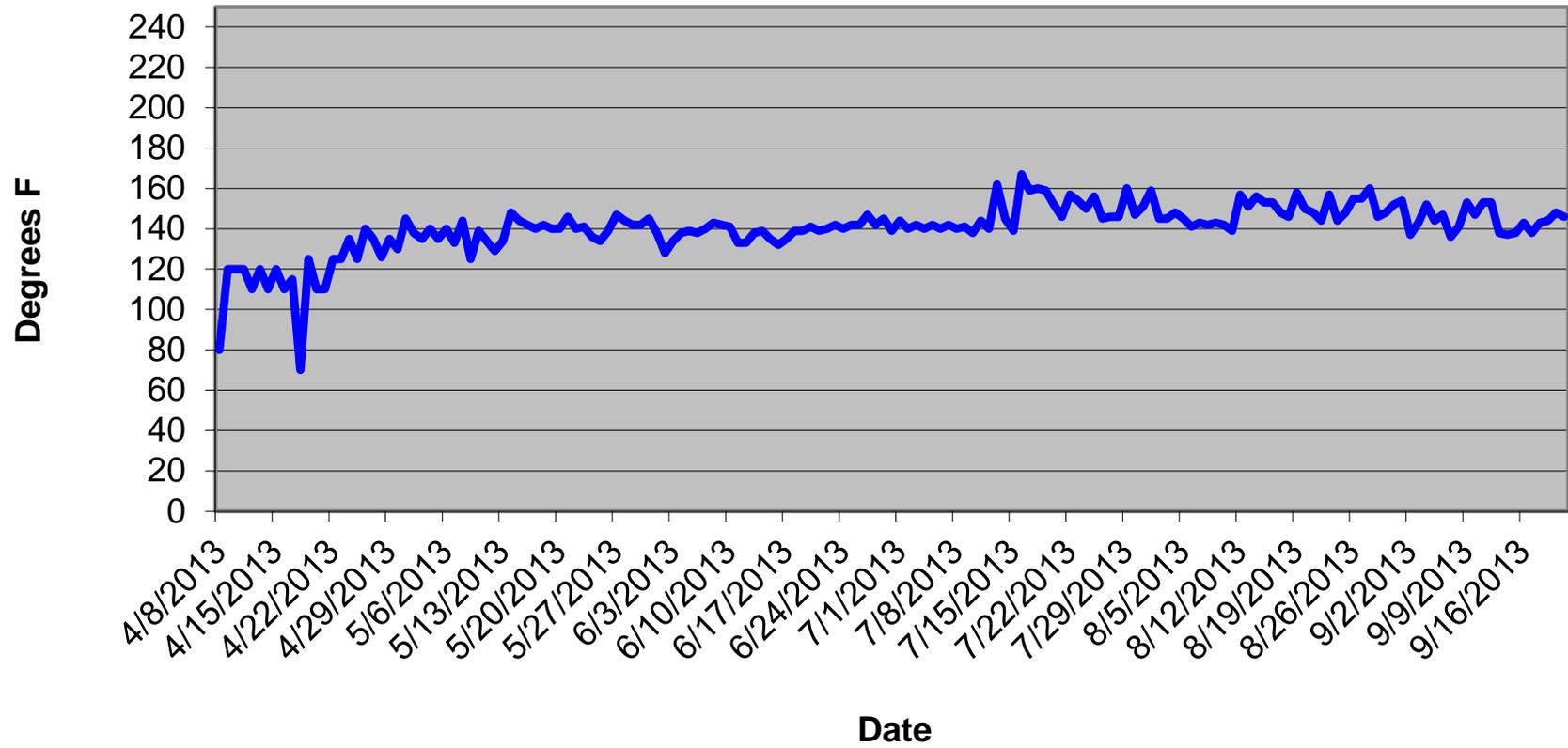
Wellhead Temp. (F)

GIW-6 Wellhead Temperatures



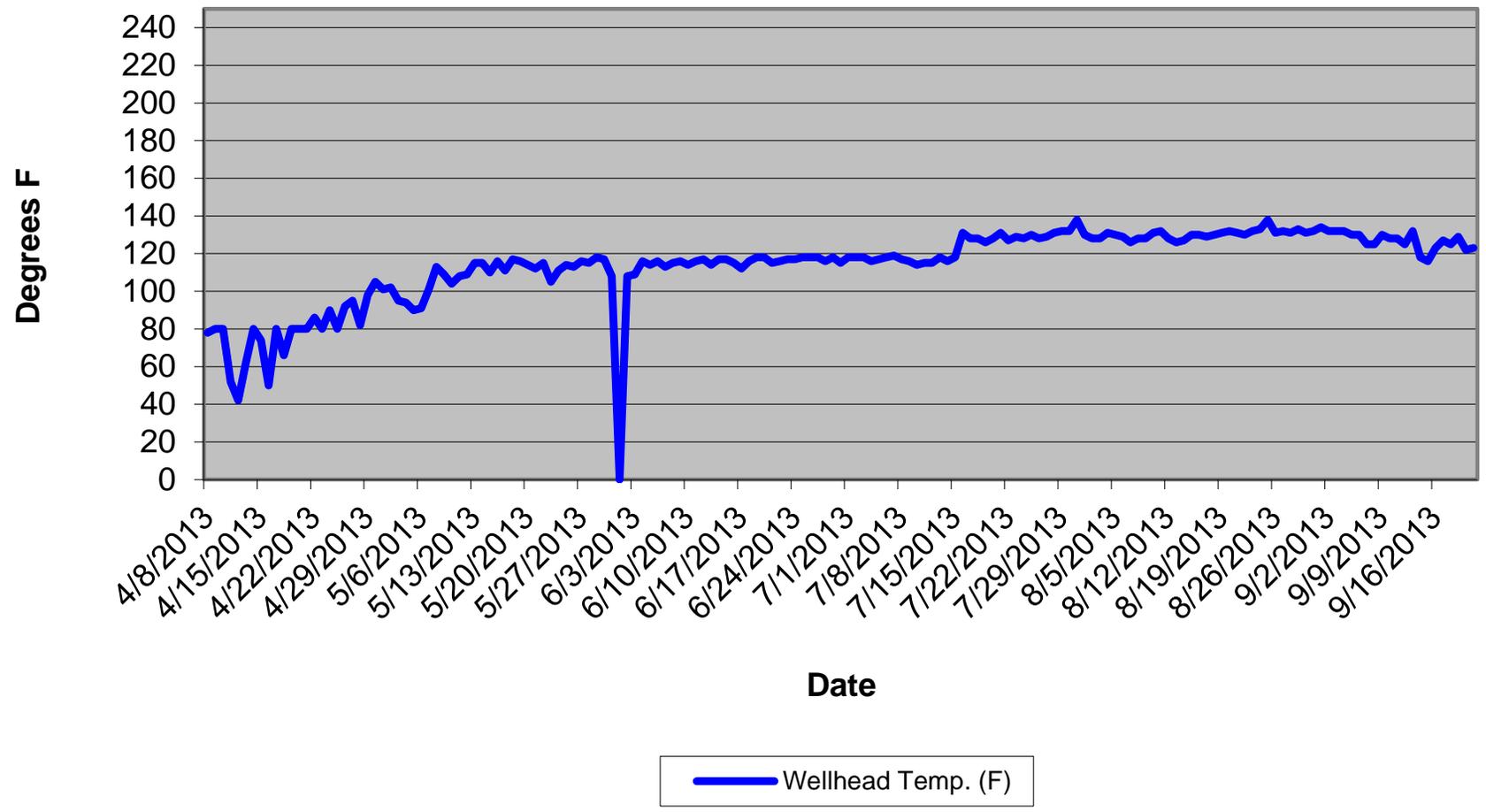
Wellhead Temp. (F)

GIW-7 Wellhead Temperatures

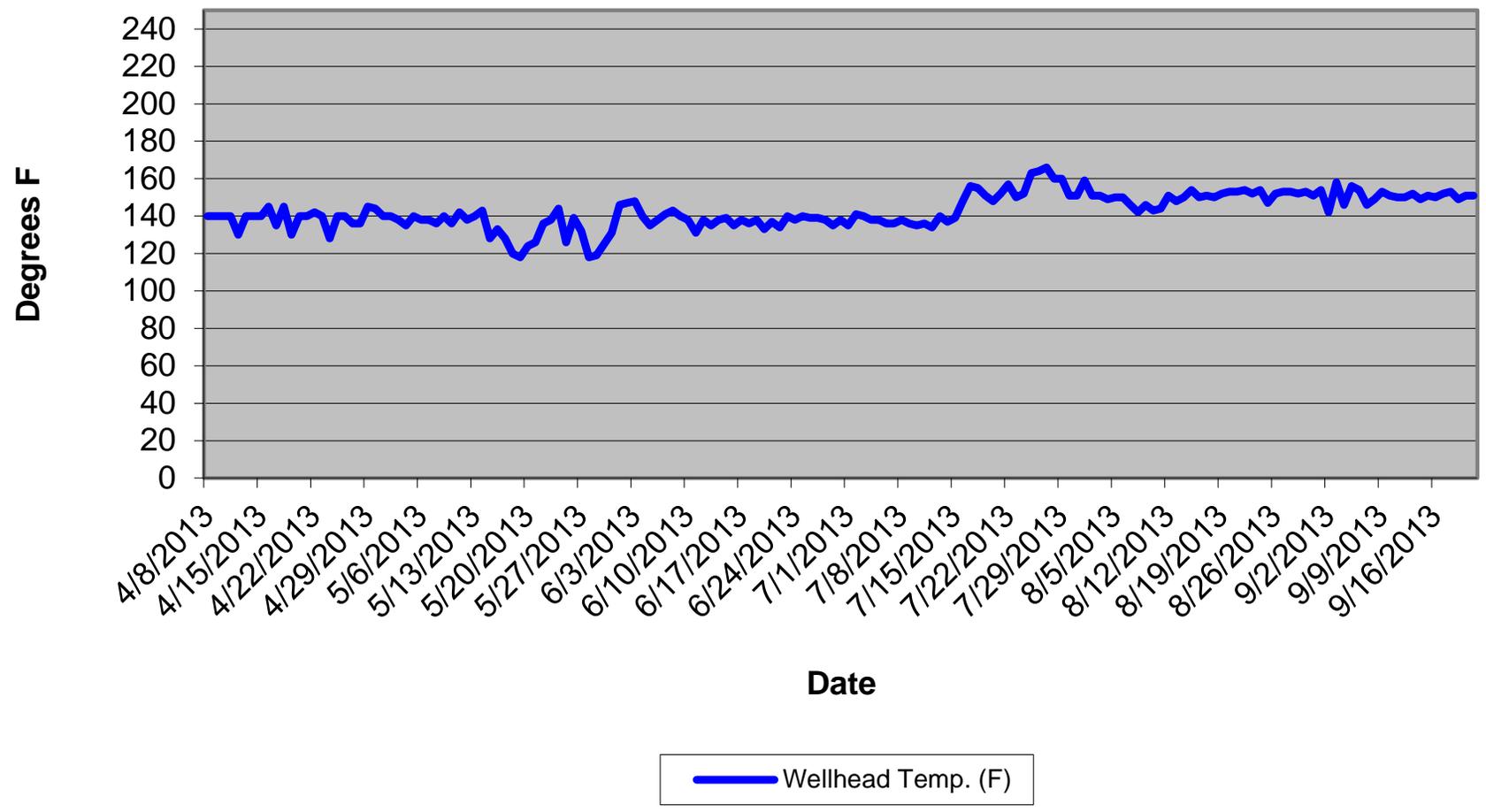


Wellhead Temp. (F)

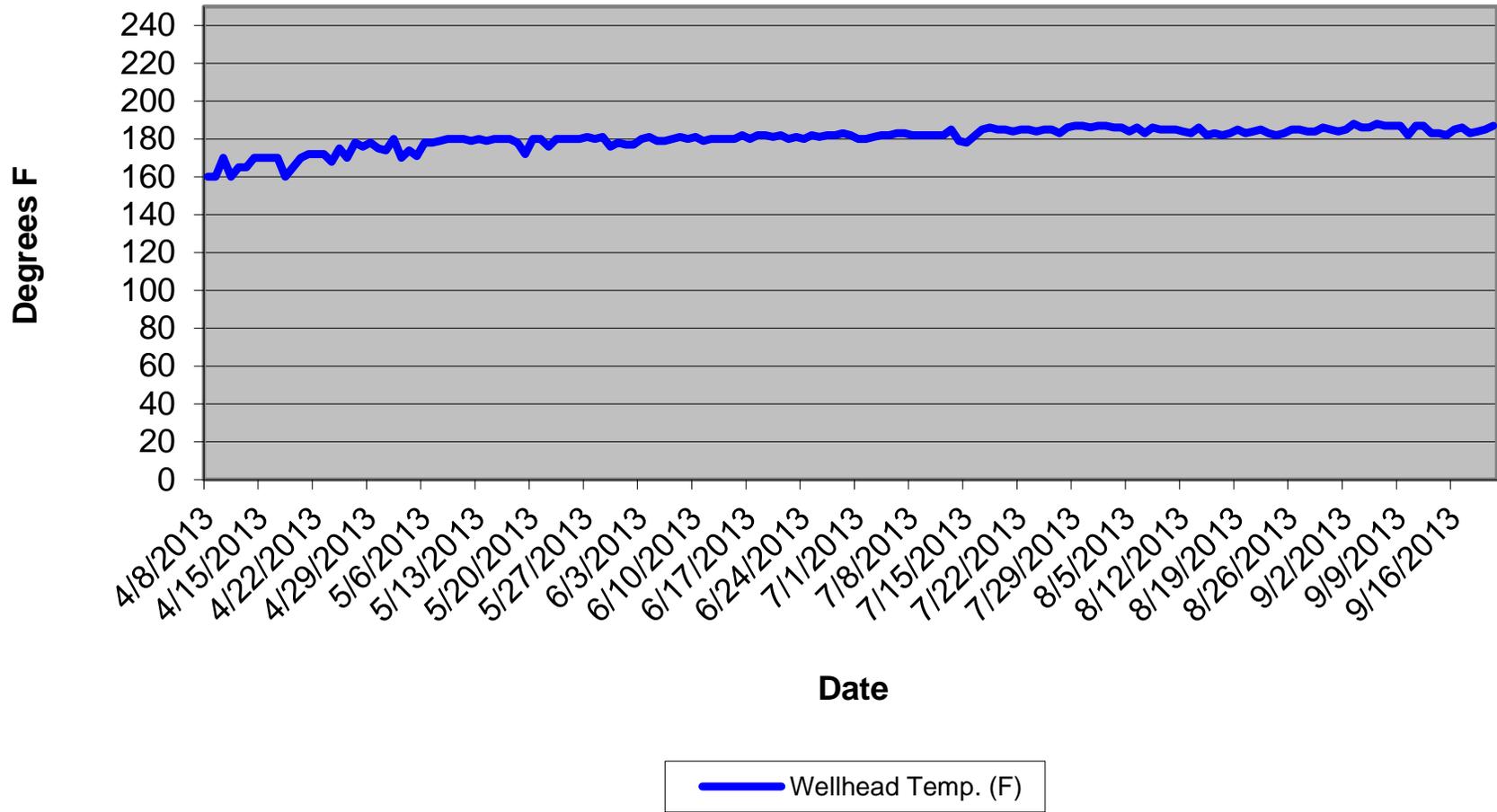
GIW-8 Wellhead Temperatures



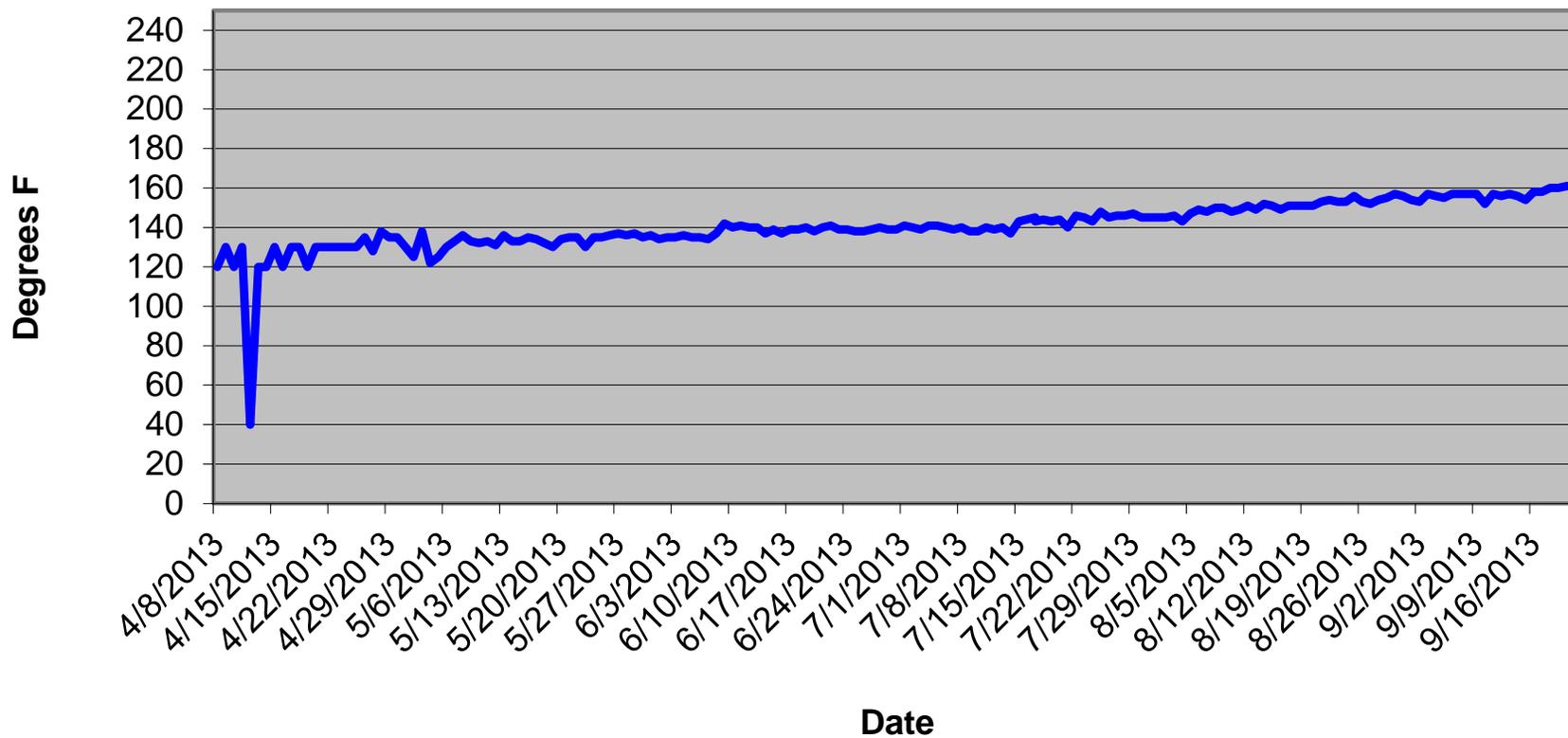
GIW-9 Wellhead Temperatures



GIW-10 Wellhead Temperatures

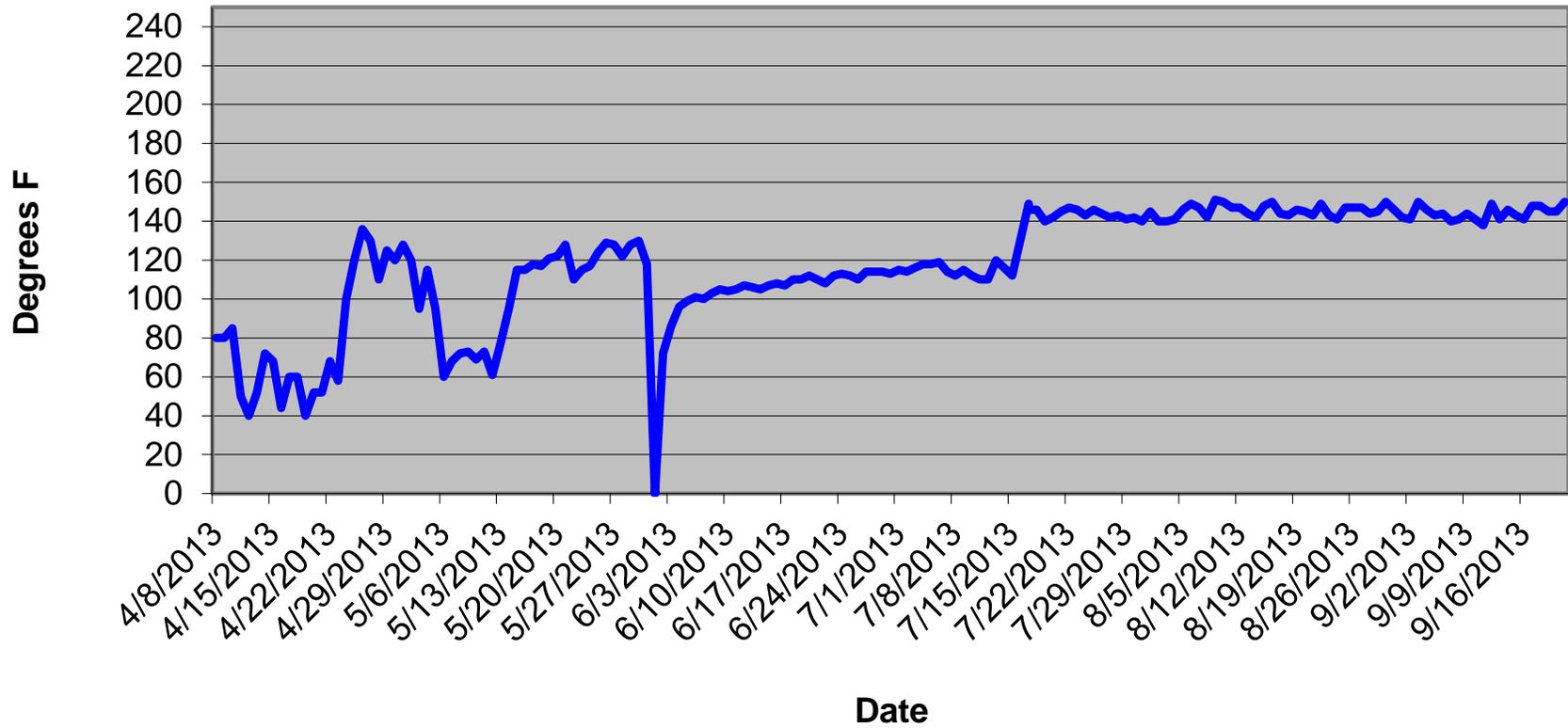


GIW-11 Wellhead Temperatures



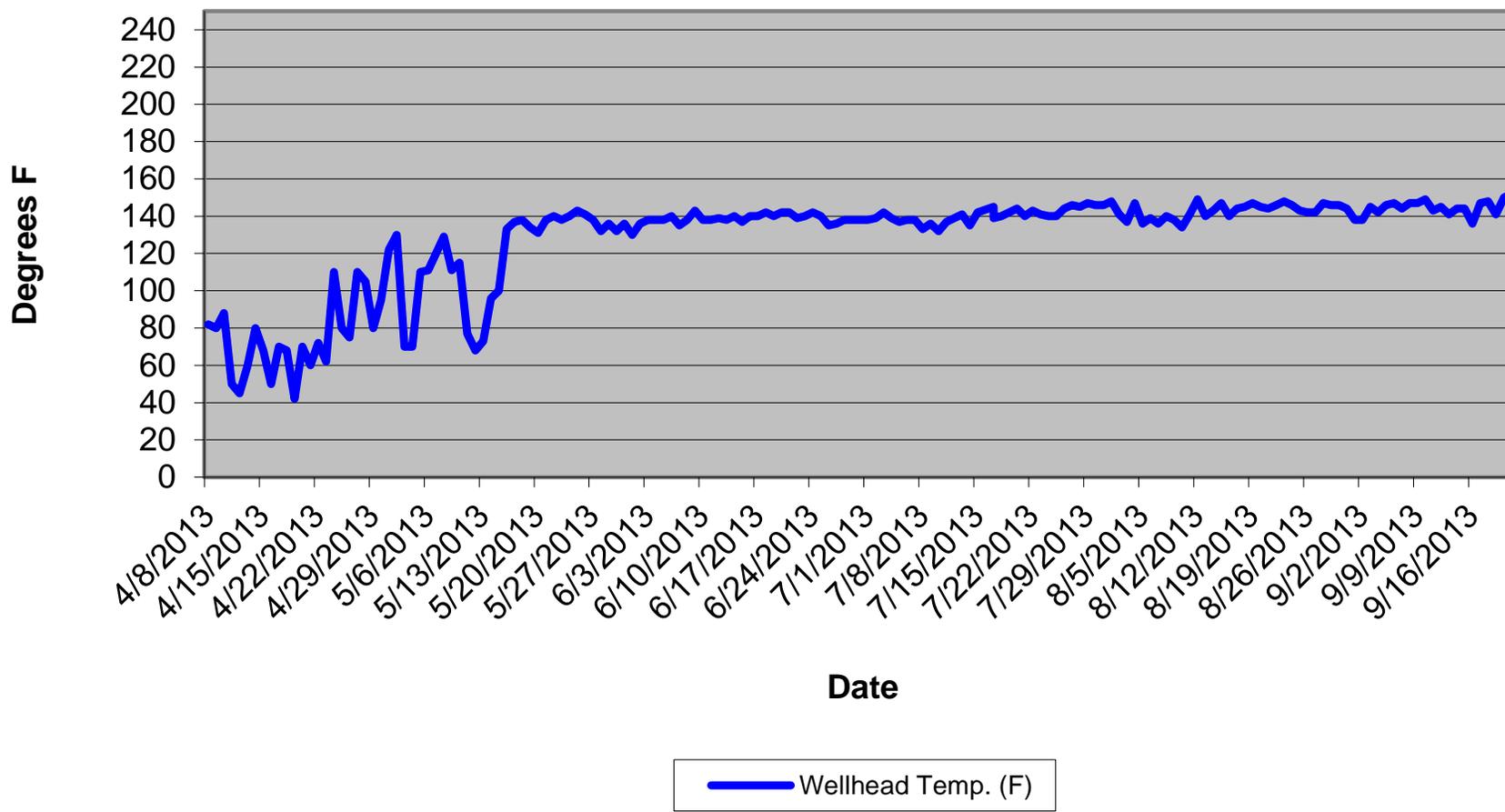
Wellhead Temp. (F)

GIW-12 Wellhead Temperatures



Wellhead Temp. (F)

GIW-13 Wellhead Temperatures



ATTACHMENT D

GAS WELL GEW-54 WELLHEAD TEMPERATURE

Weekly Wellhead Temperature Monitoring of GEW-54 (North Quarry)

<u>Date</u>	<u>Time</u>	<u>Temperature Reading</u>
7/22/13	5:11 PM	149° F
7/30/13	9:30 AM	148° F
8/05/13	8:51 PM	152° F
8/12/13	11:57 AM	144° F
8/19/13	7:23 AM	143° F
8/26/13	7:45 AM	143° F
9/02/13	12:30 PM	146° F
9/09/13	11:12 AM	143° F
9/17/13	8:07 AM	151° F
9/23/13	8:10 AM	146° F