

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**

December 3, 2013

Commentary on Data

Attachment A – Leachate Levels in Leachate Collection Sumps

A progressive-cavity pump was installed in LCS-1 last week and is awaiting a manufacturer's representative to assist with the start up. In addition, plans call for installation of a progressive-cavity pump in LCS-3 as soon as practical. This should improve leachate removal and allow resumption of liquid level monitoring.

LCS-4B still exhibits excess pressure and liquid ejection, so has not been fitted with a pump; however, the conditions are resulting in leachate removal from that location.

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-6, -9, -11, -13, and -14.

TMP-1, -2, -3, -4, -5, -7, -10, -12 exhibit slightly warmer temperatures than the previous weeks.

Attachment C – Gas Interceptor Wellhead Temperature Graphs

The lower seasonal ambient temperatures seem to be creating more fluctuation in wellhead gas temperatures. Only GIW-1 and GIW-11 show any sense of a recent warming trend.

The water circulation cooling loop is still temporarily in place in GIW-4; therefore, the graph for GIW-4 indicates the temporarily cooled wellhead gas temperature. We will continue this trial cooling for a short period, while continuing temperature monitoring, and then reinstall the pump to restore GIW-4 to its previous state.

Attachment D – Gas Well GEW-54 Wellhead Temperature

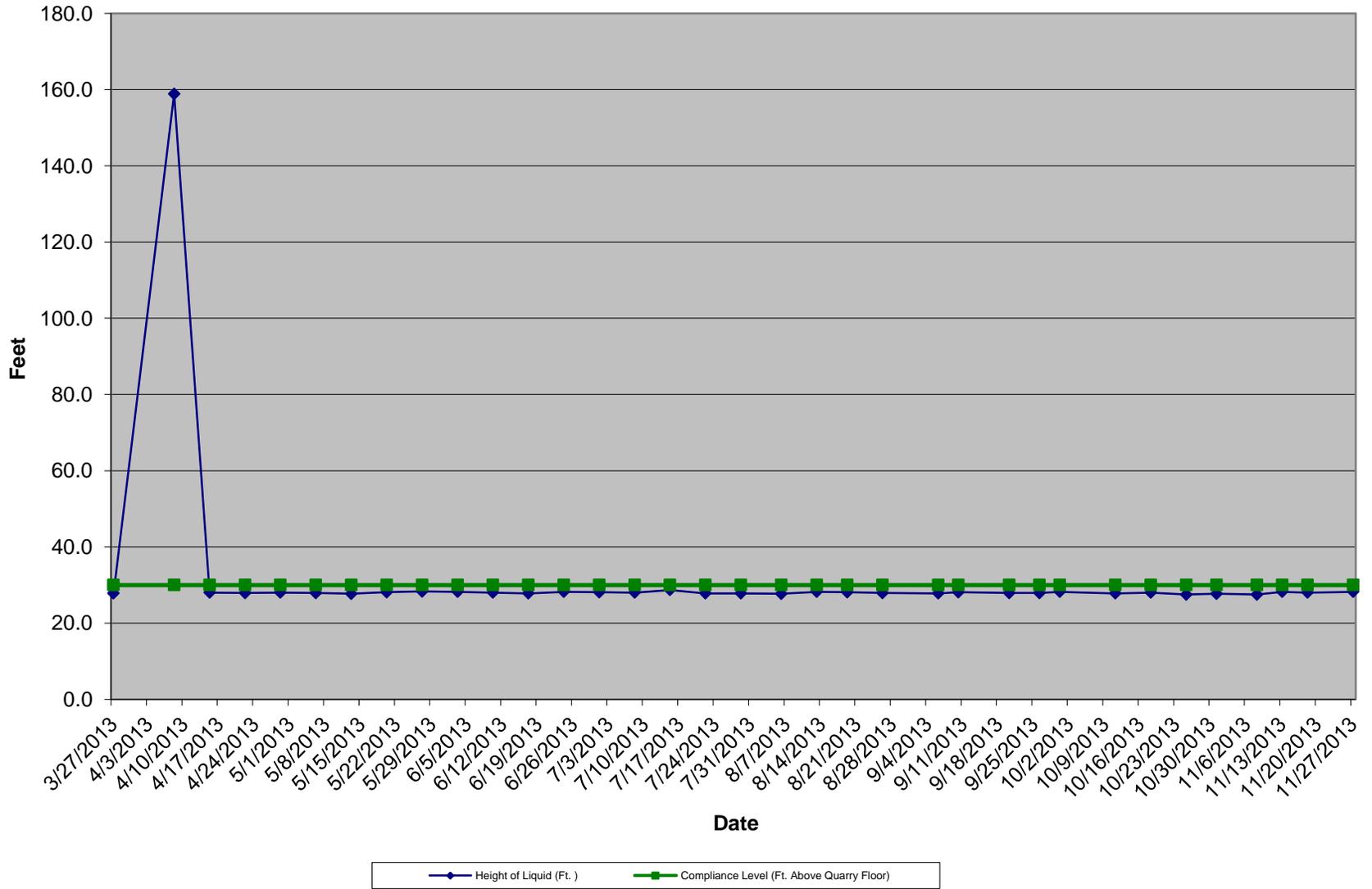
Weekly, typically Monday mornings, a temperature reading has been taken using a Fluke thermometer inserted into the gas flow stream of GEW-54. The most recent temperature reading was 136° F (see Attachment D). The past four weekly Monday morning monitoring events indicate a 133-137° F temperature range which is below the agreed temperature (140° F) that requires continued weekly reading and monthly carbon monoxide sampling.

Therefore, Bridgeton Landfill may elect to discontinue the special weekly GEW-54 temperature reading and reporting in the Weekly Data Submittal until such time that the wellhead temperature is over 140° F. Also, Bridgeton Landfill may discontinue the monthly carbon monoxide sampling at GEW-54 and reporting in the Monthly Data Submittals until such time that the wellhead temperature is over 140° F.

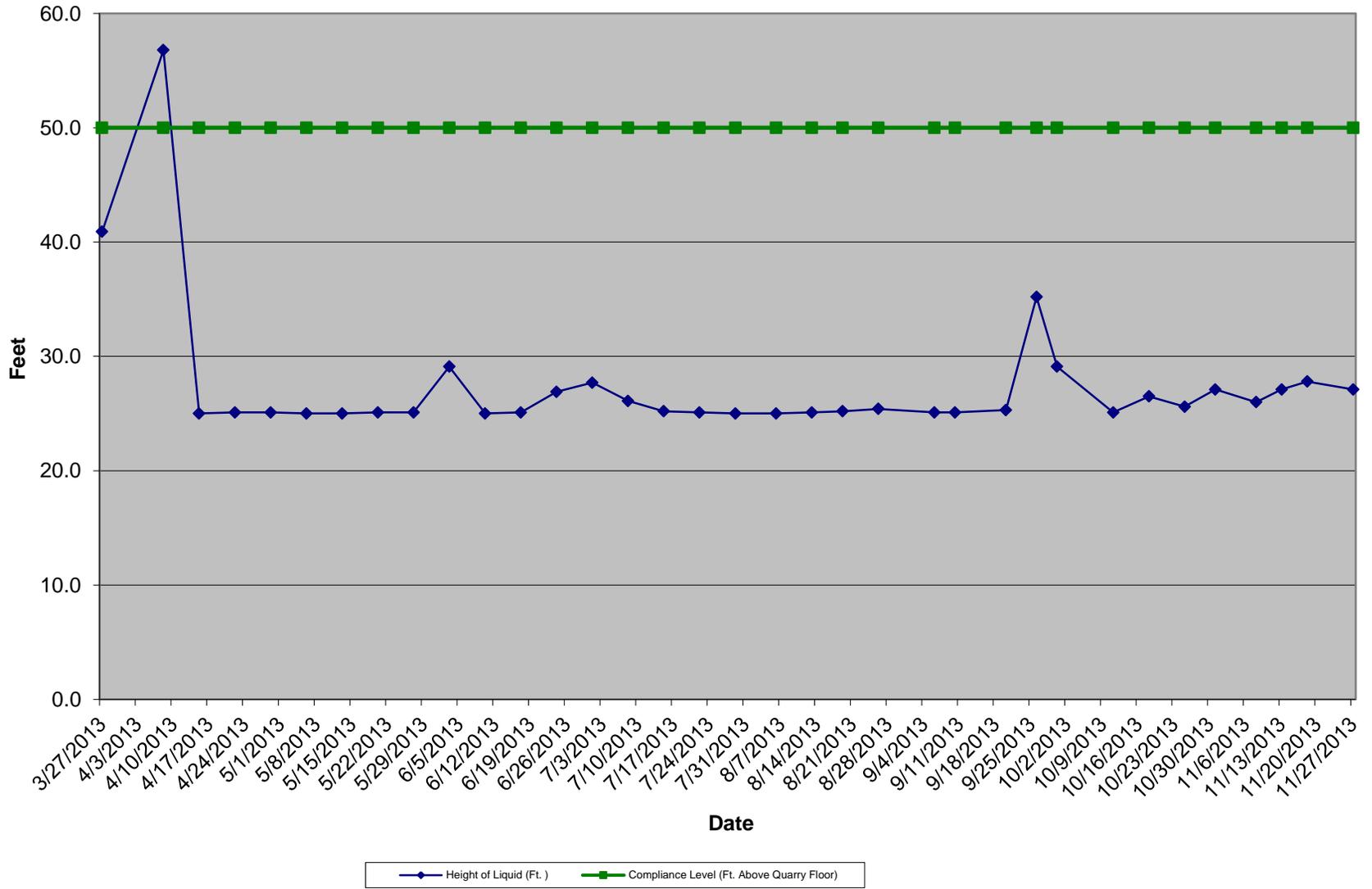
ATTACHMENT A

LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS

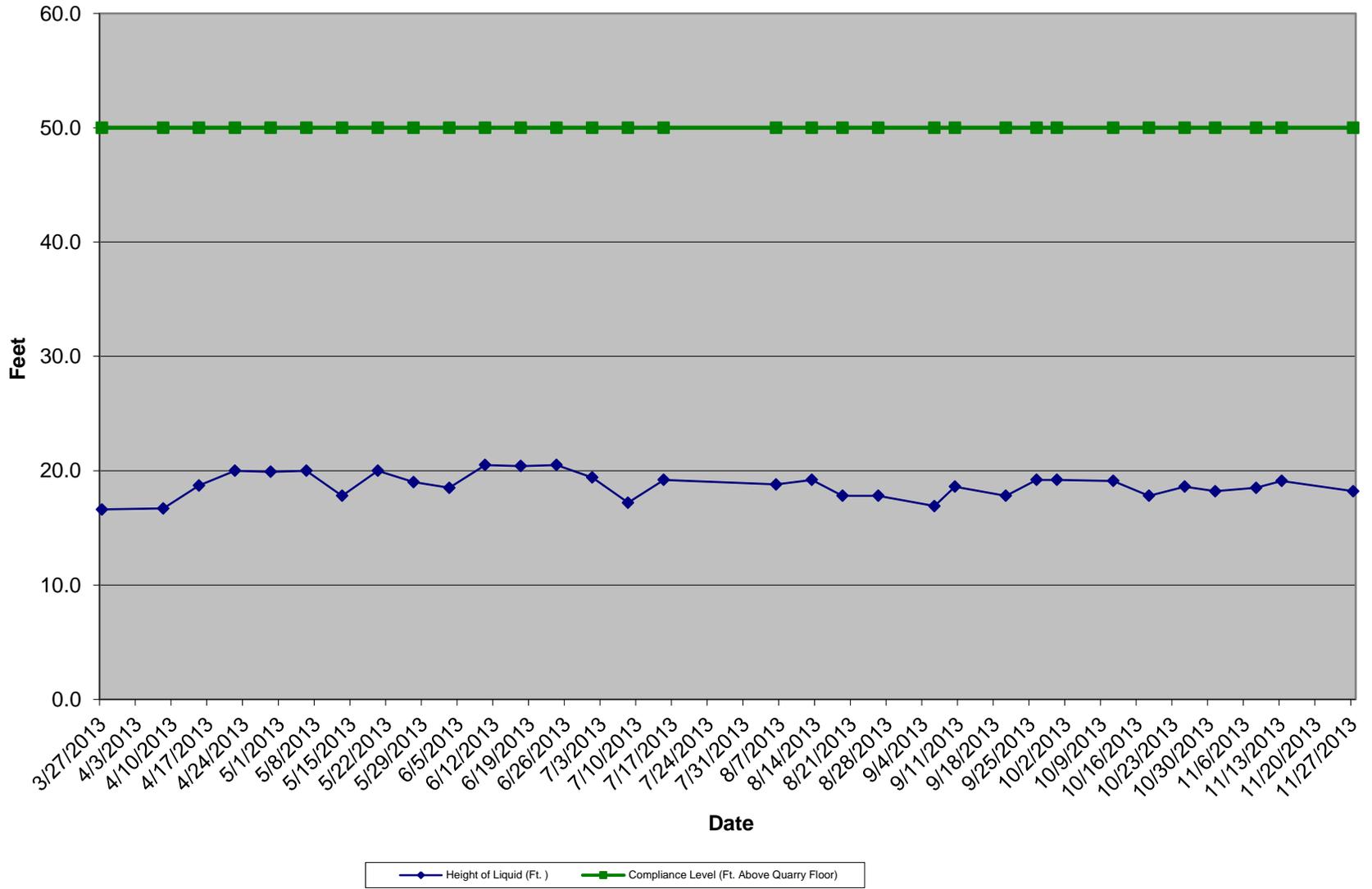
LCS-2D Liquid Level Above Quarry Floor



LCS-5A Liquid Level Above Quarry Floor



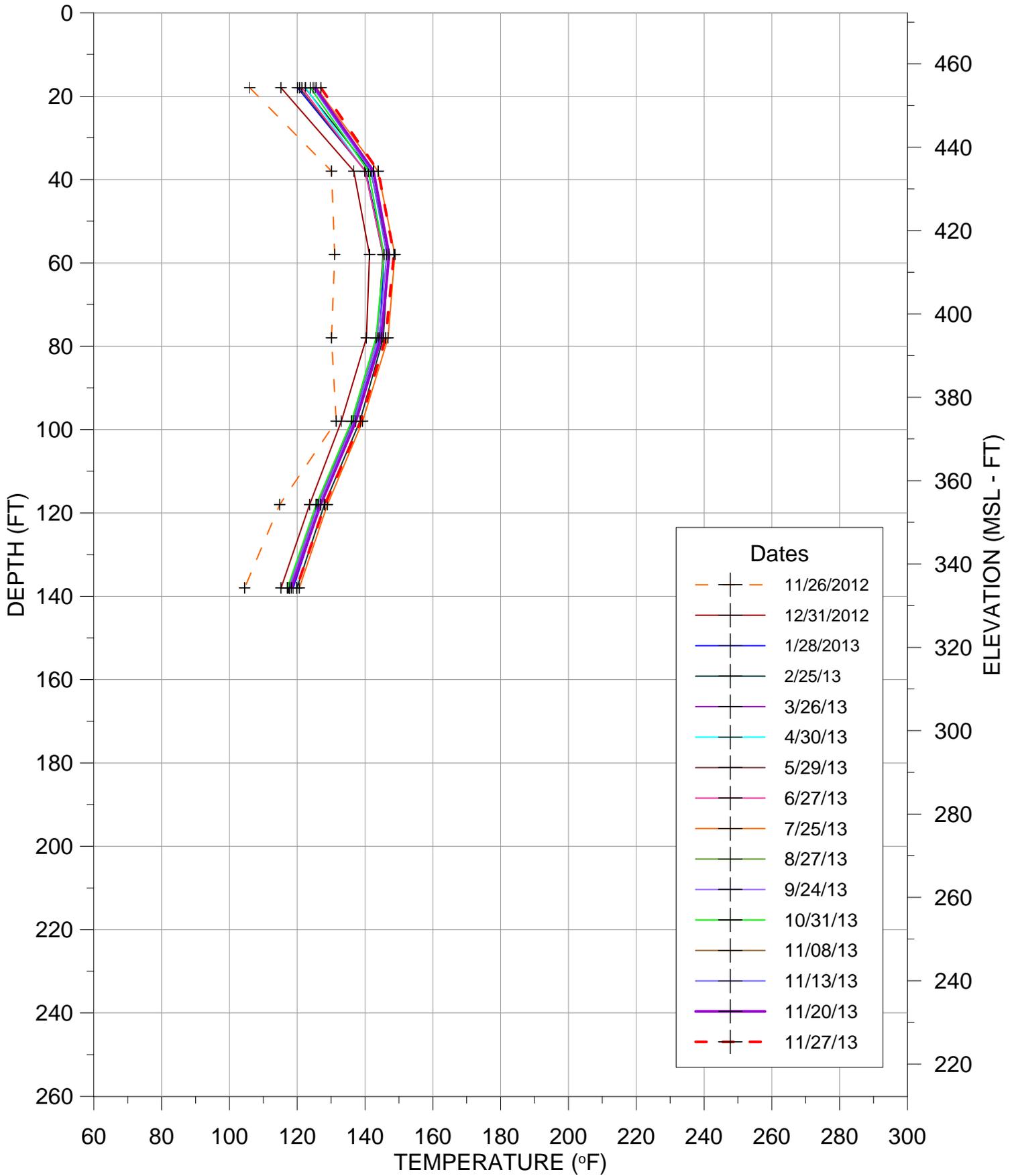
LCS-6B Liquid Level Above Quarry Floor



ATTACHMENT B

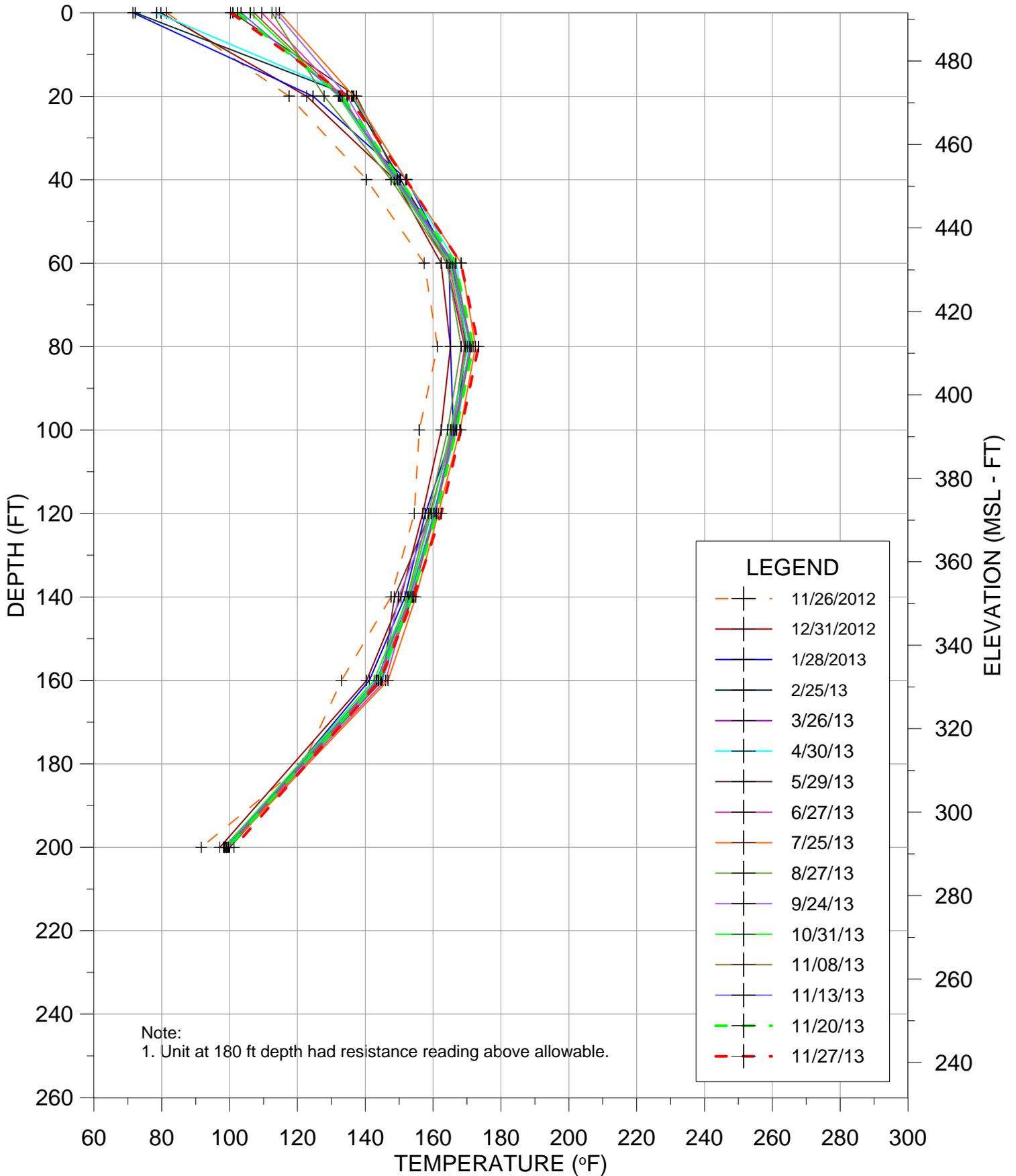
TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS

TMP-1



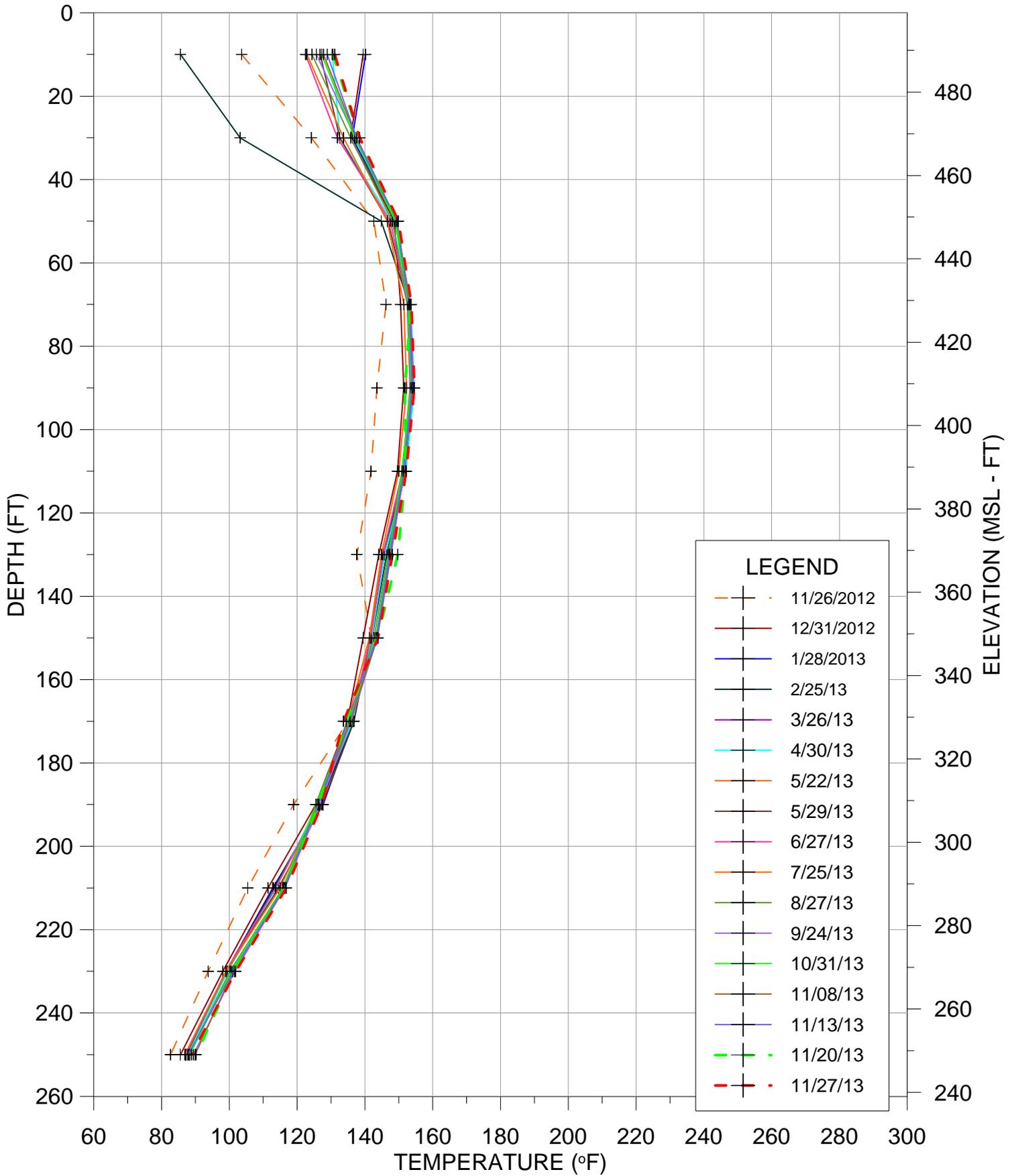
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-2



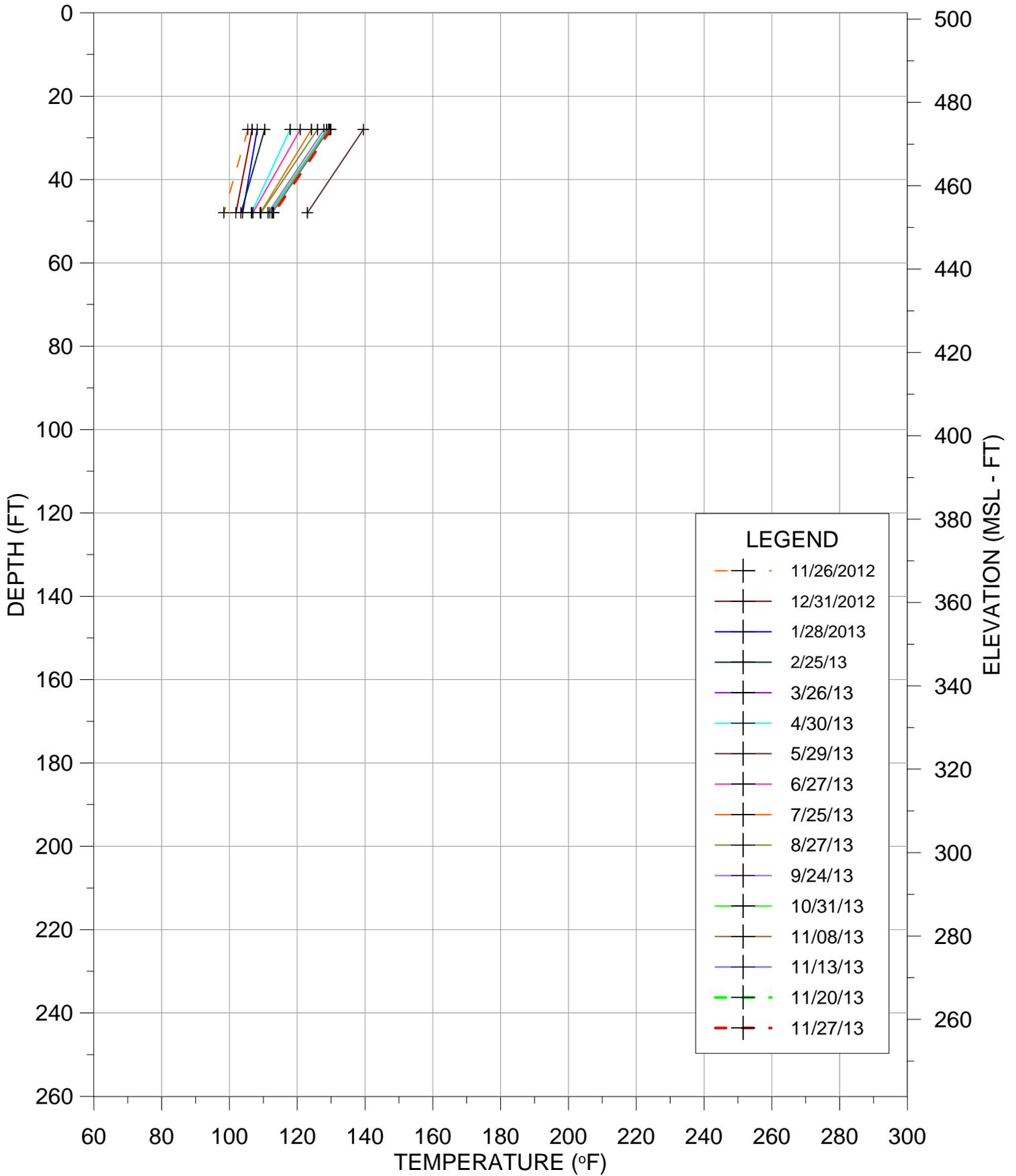
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-3



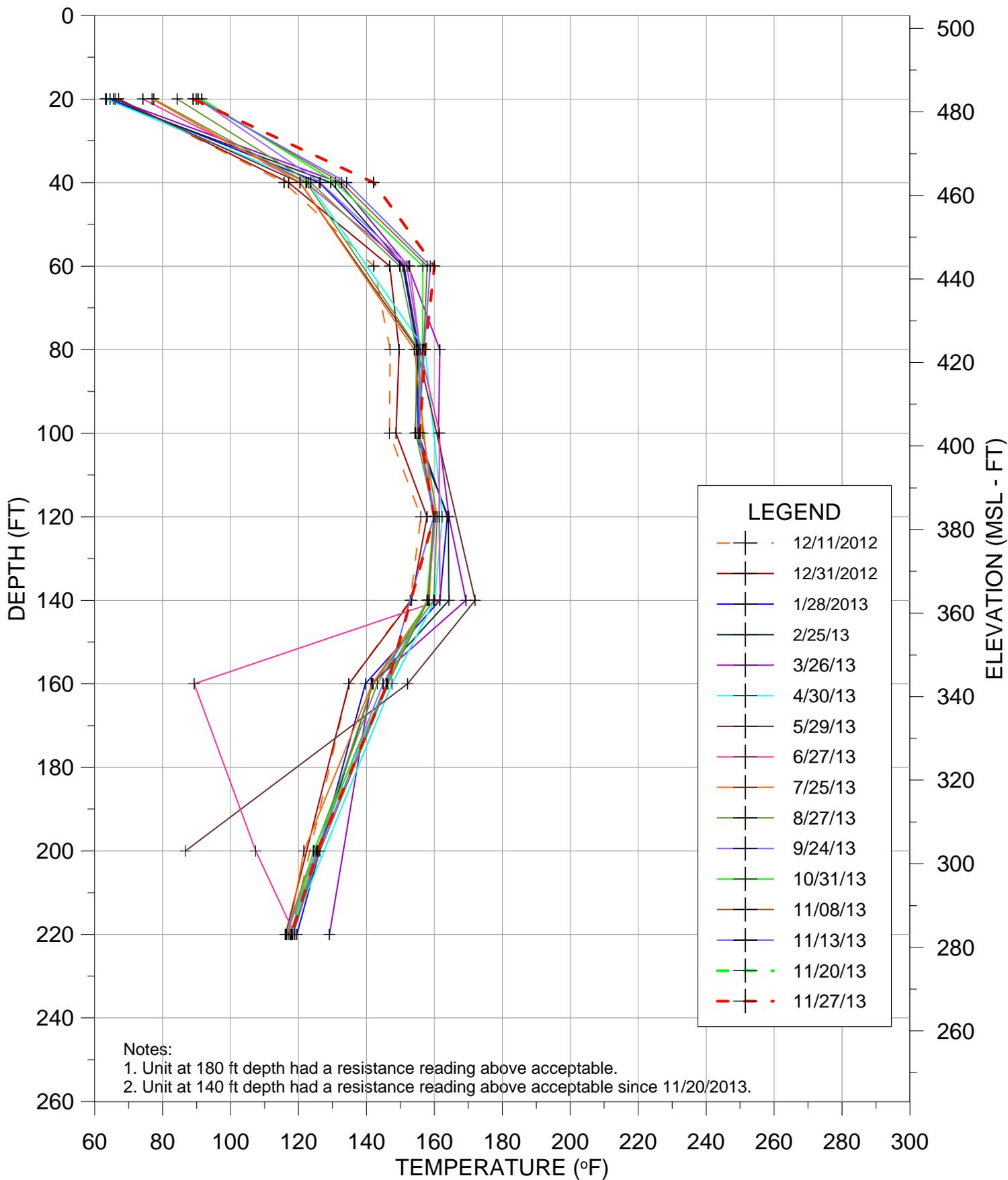
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-4



TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

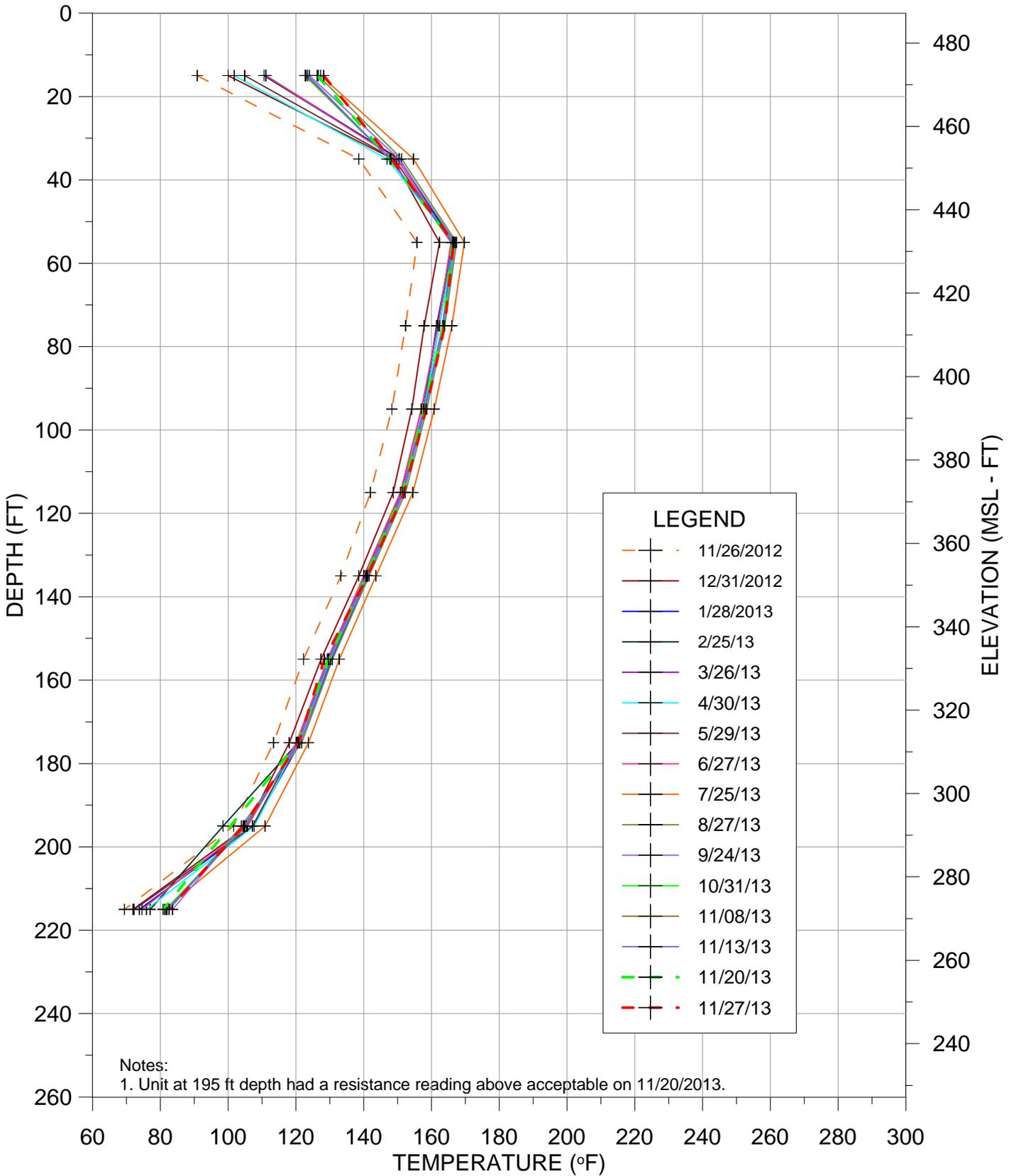
TMP-5



Notes:
 1. Unit at 180 ft depth had a resistance reading above acceptable.
 2. Unit at 140 ft depth had a resistance reading above acceptable since 11/20/2013.

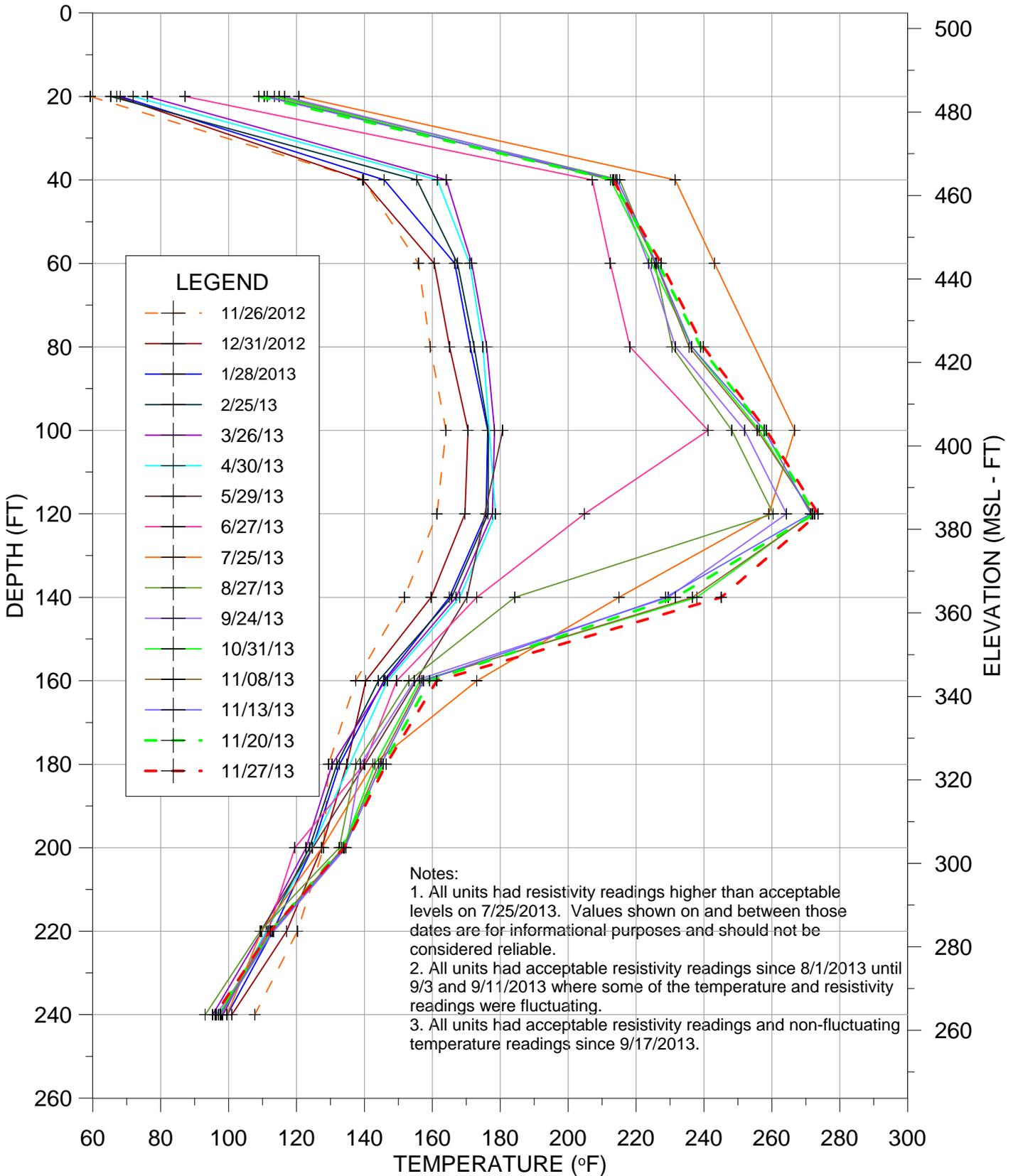
TEMPERATURE VS DEPTH
 BRIDGETON LANDFILL

TMP-6



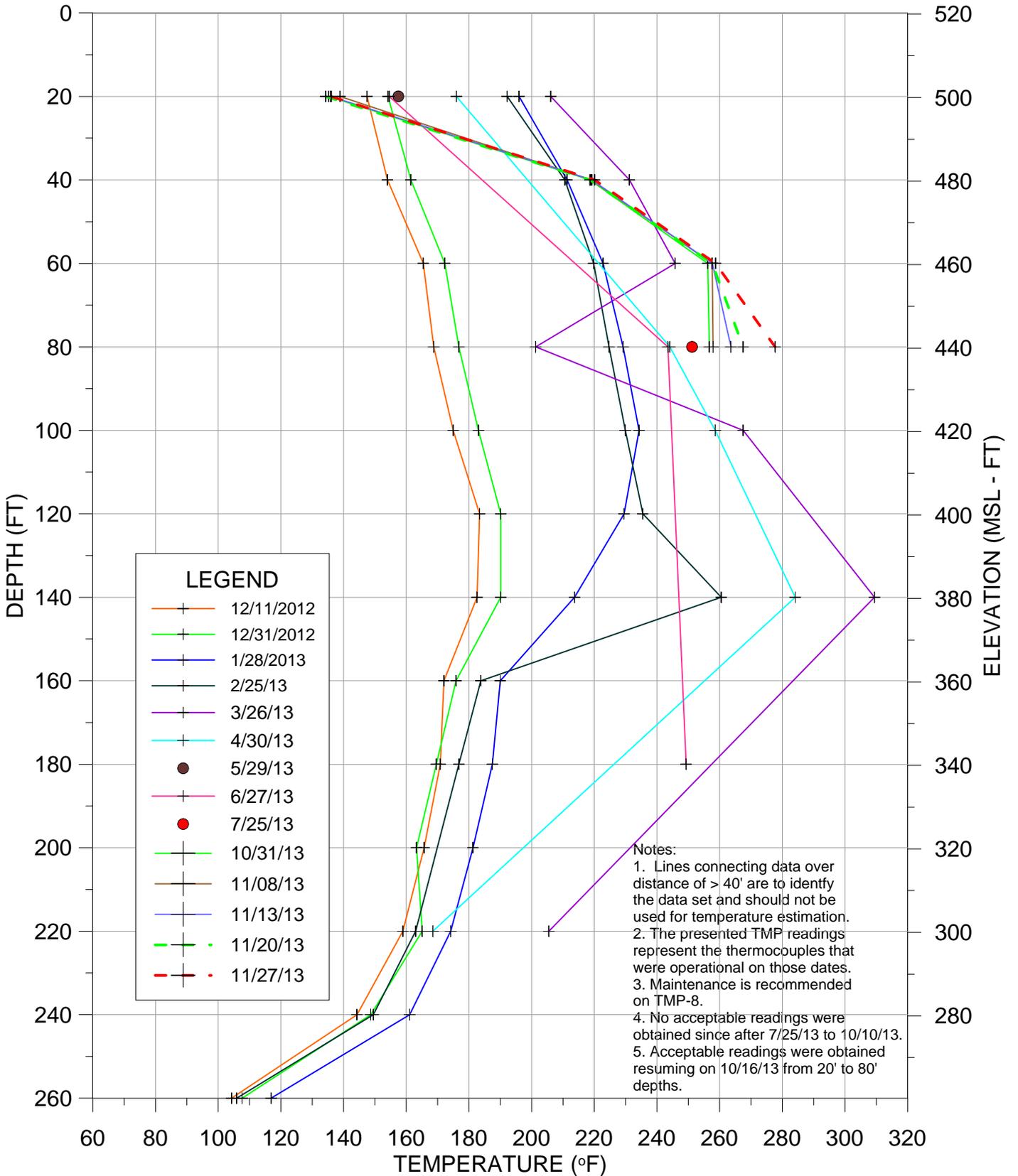
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-7R



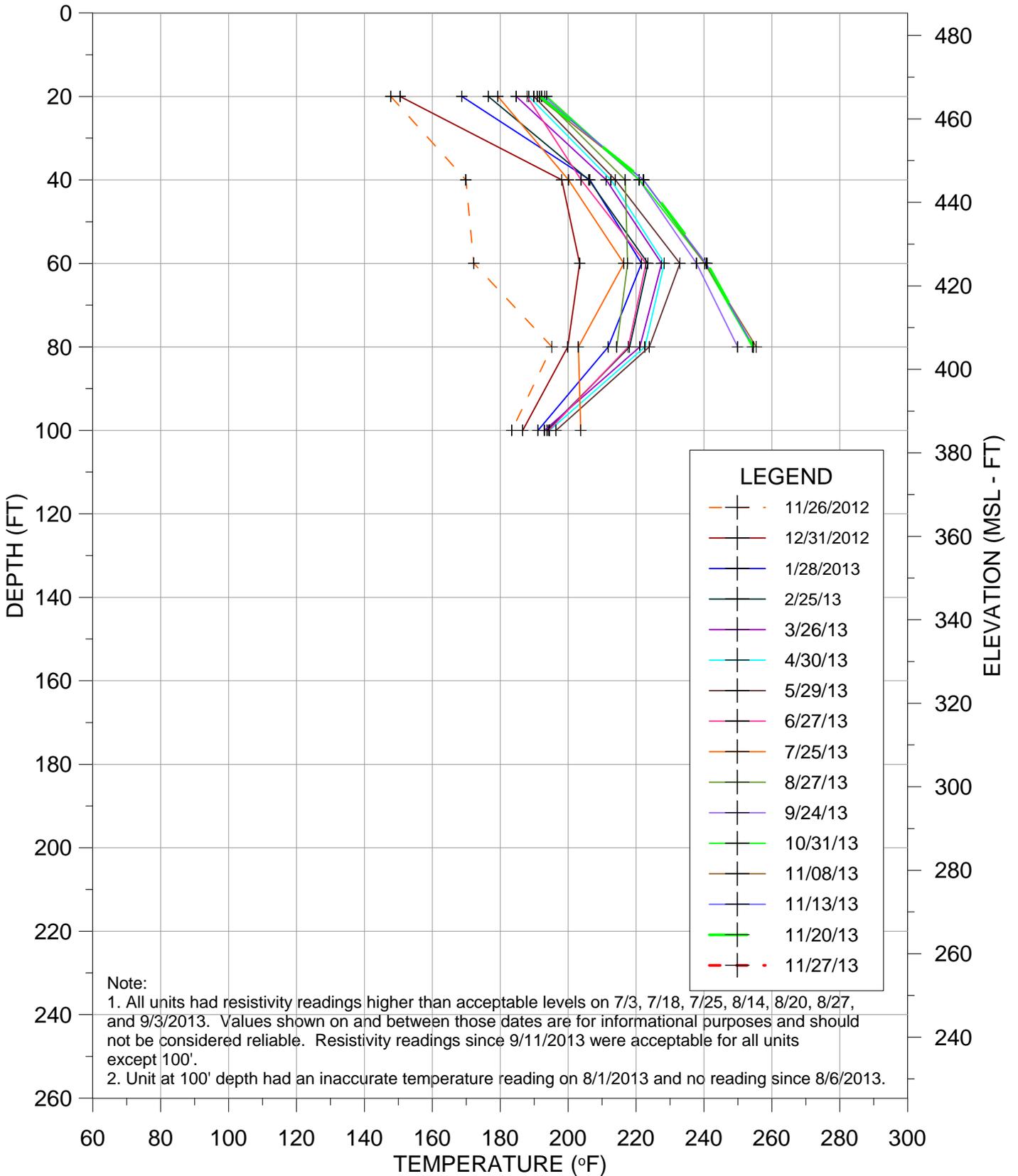
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-8



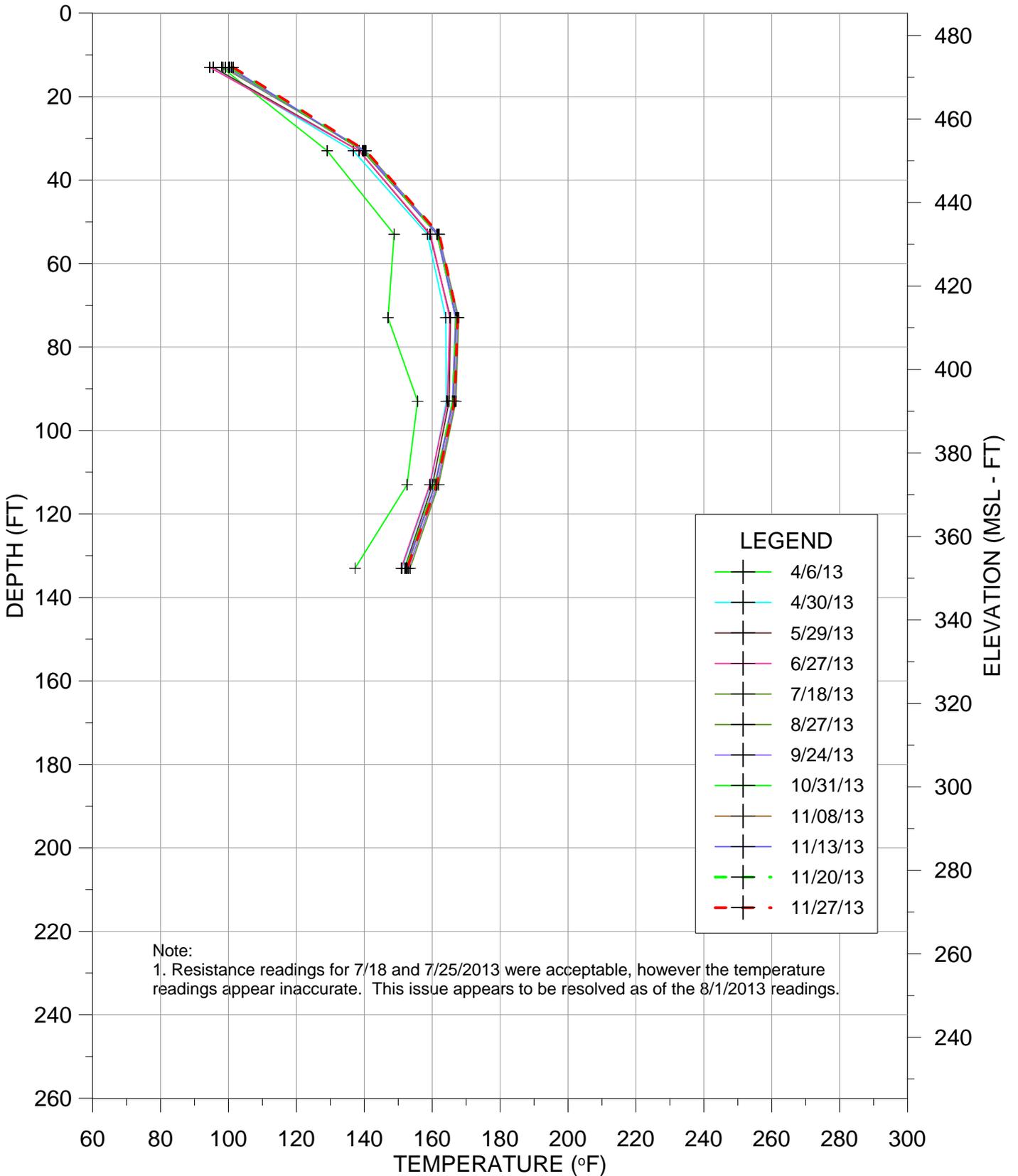
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-9



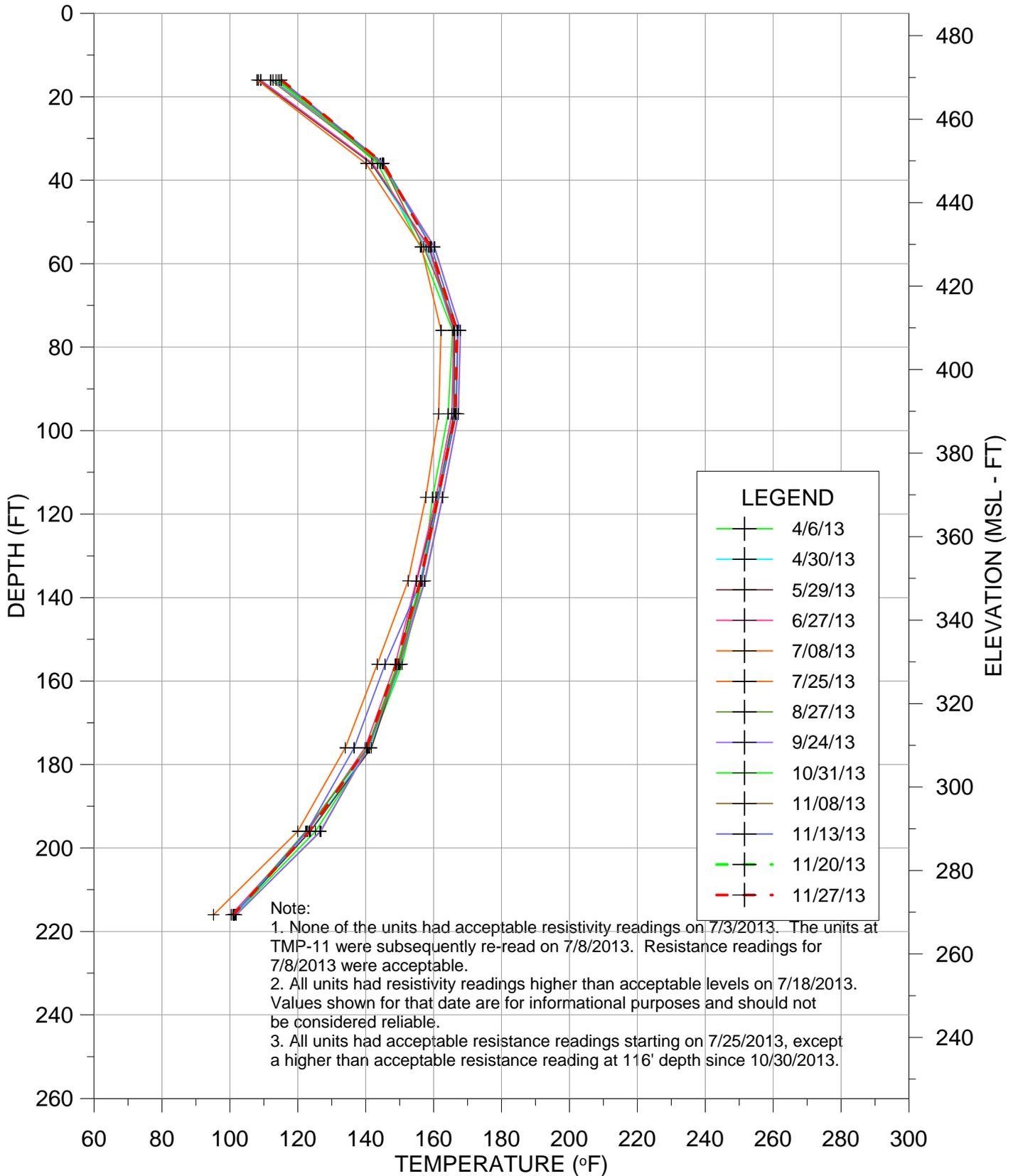
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-10



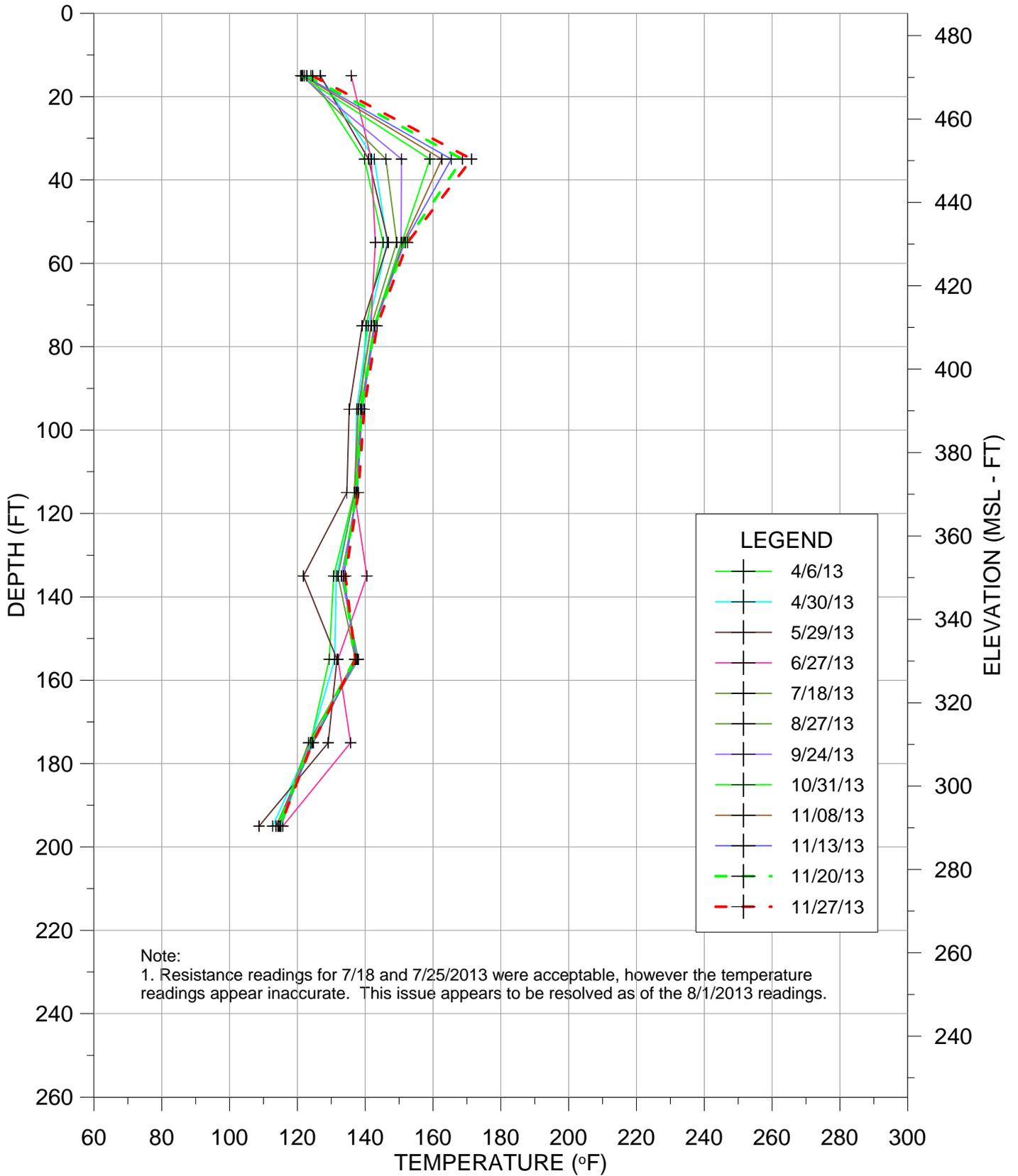
TEMPERATURE VS DEPTH
 BRIDGETON LANDFILL

TMP-11



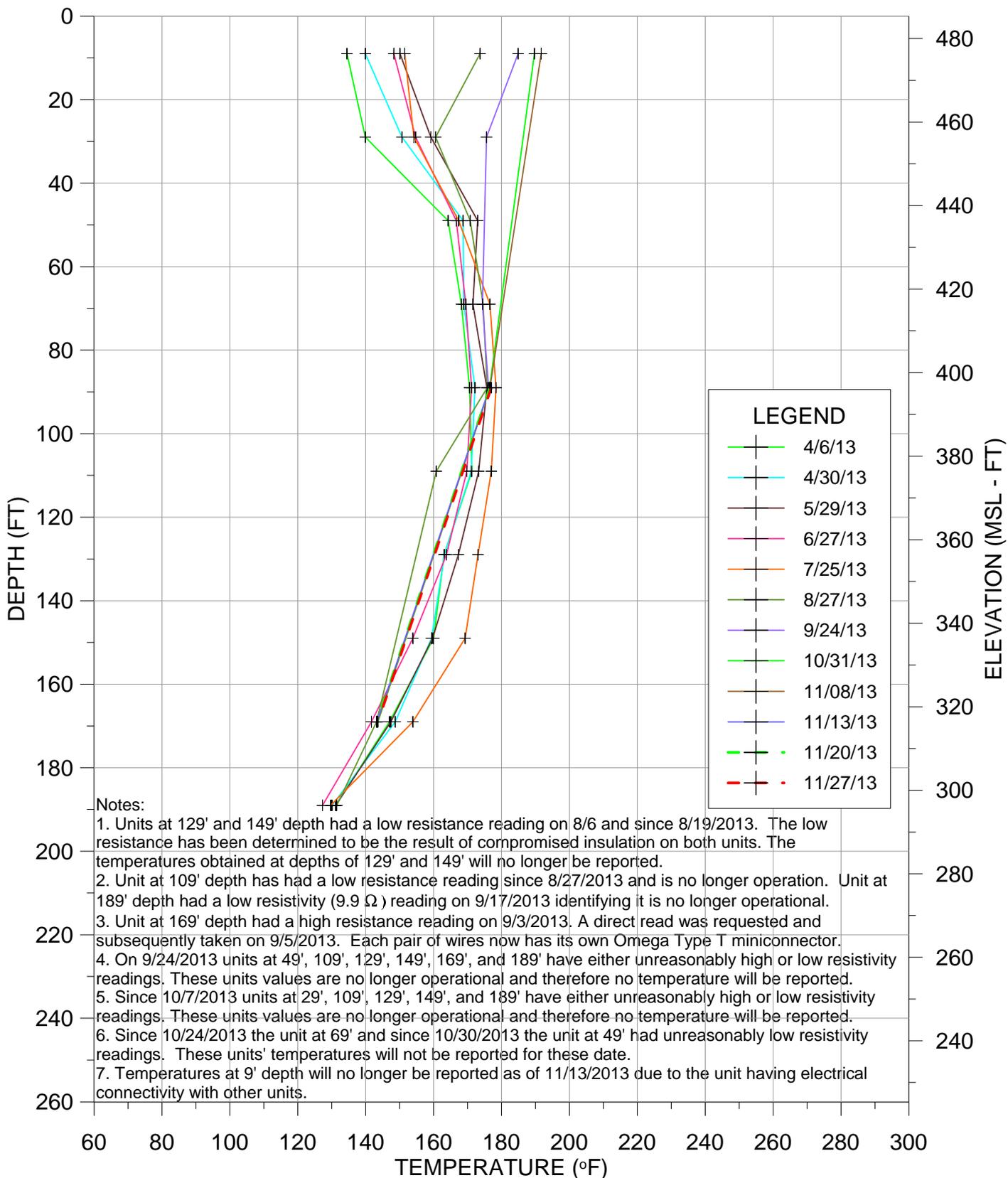
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-12



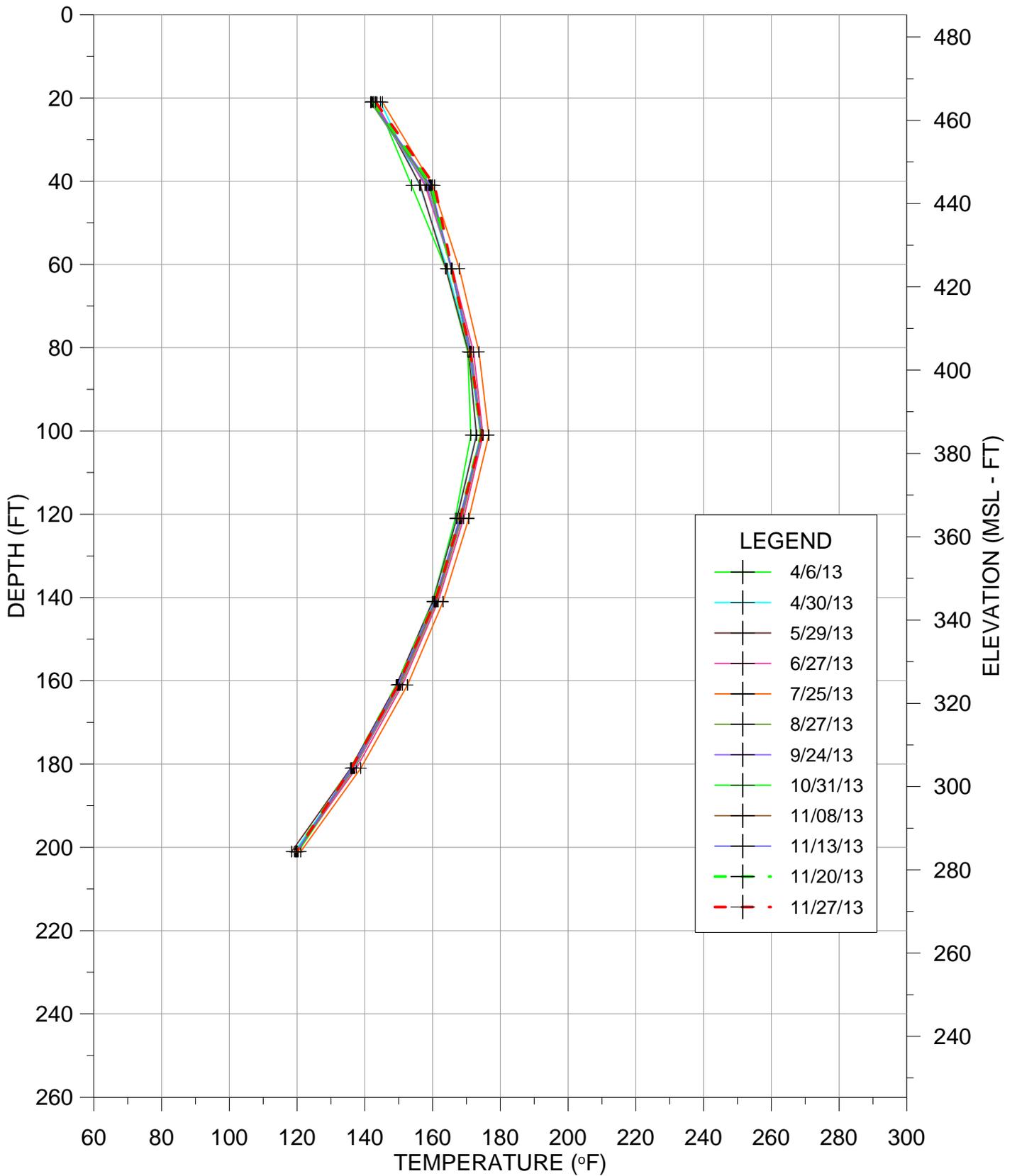
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-13



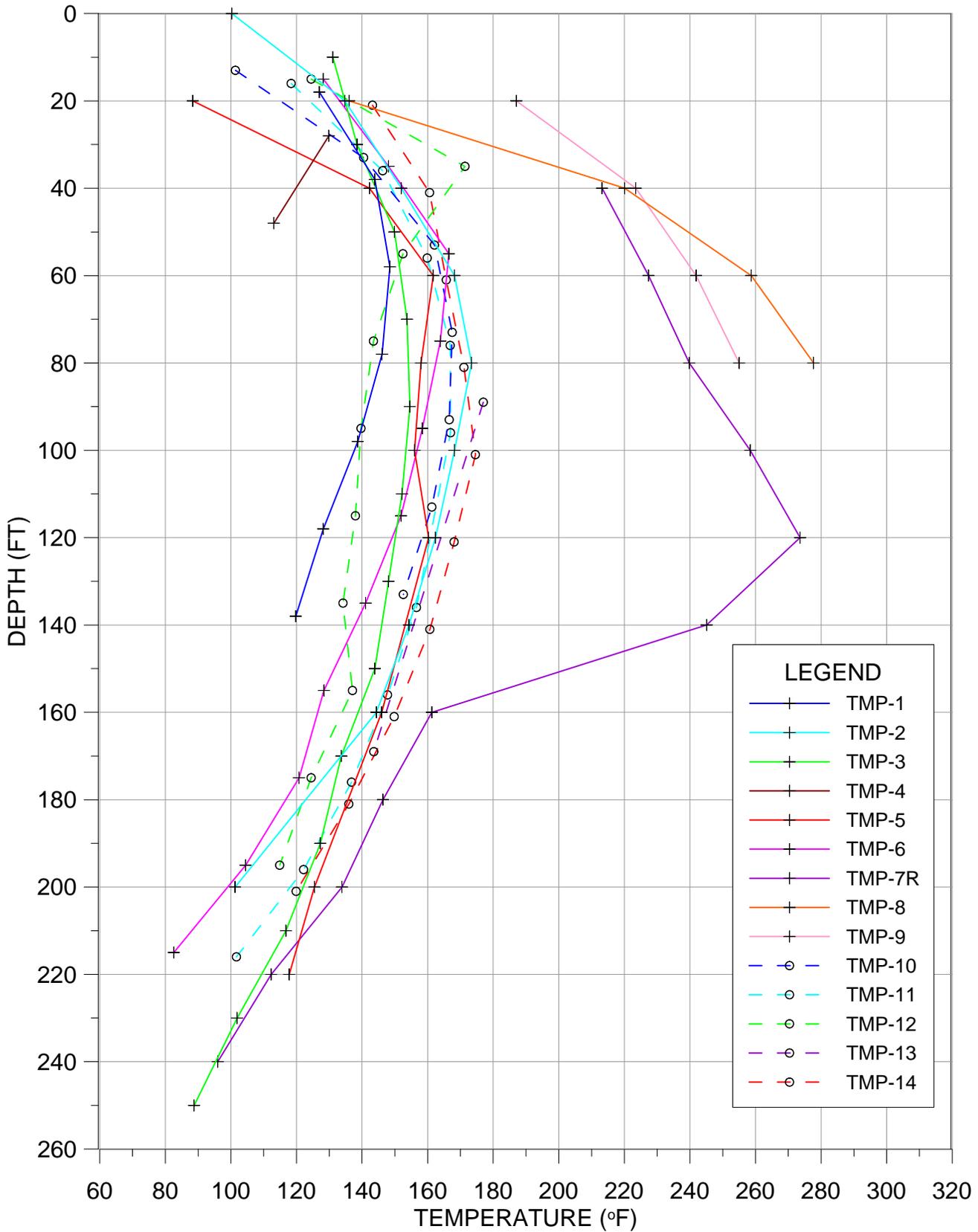
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-14



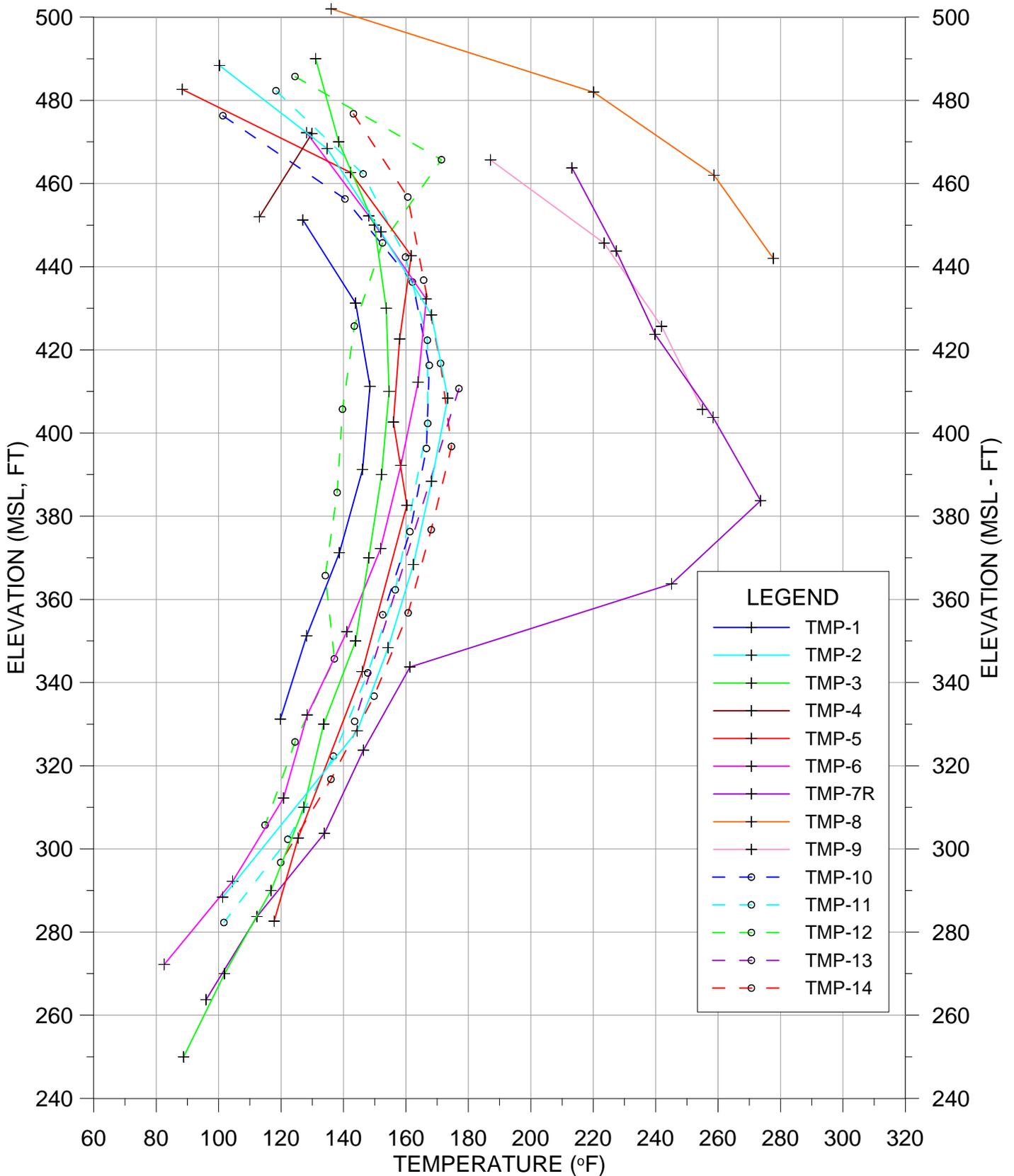
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

11/27/2013 -DEPTH



TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

11/27/2013 - ELEVATION

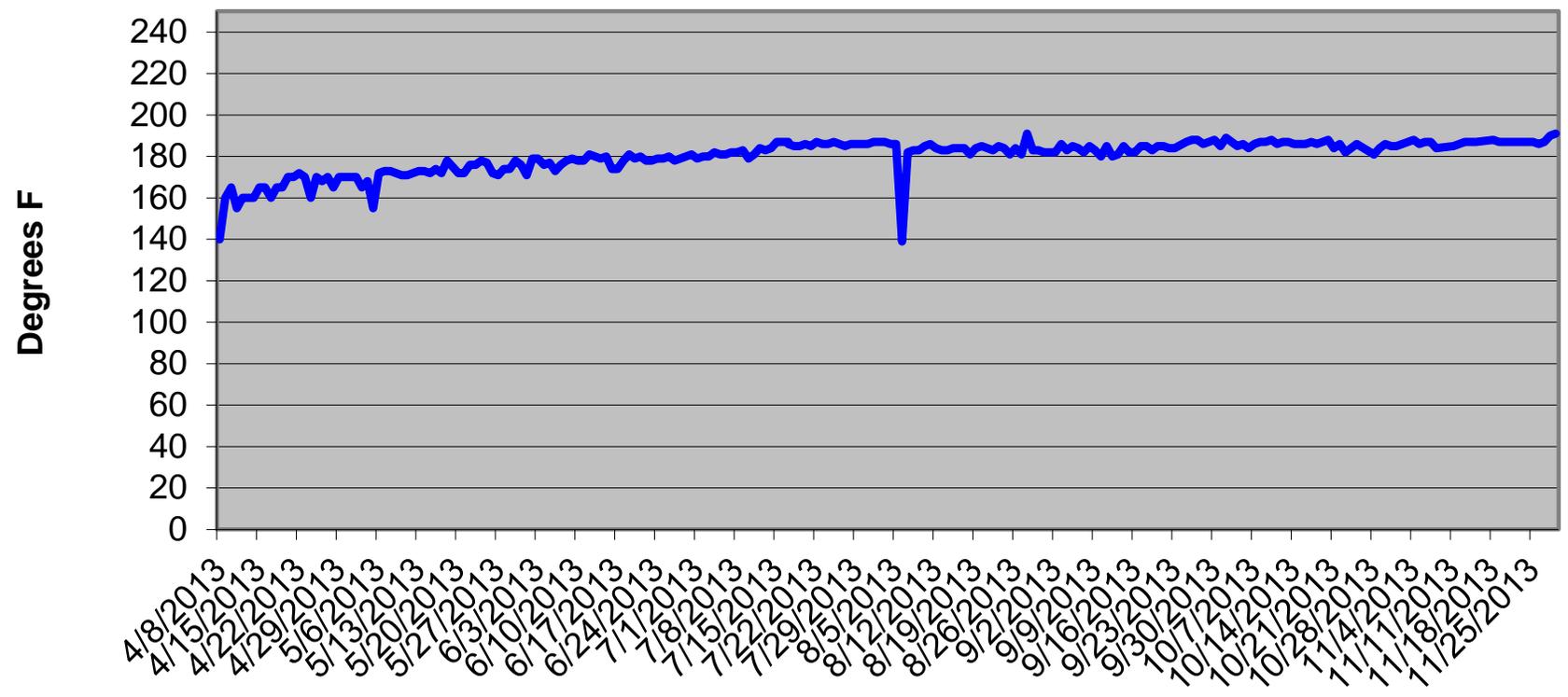


TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

ATTACHMENT C

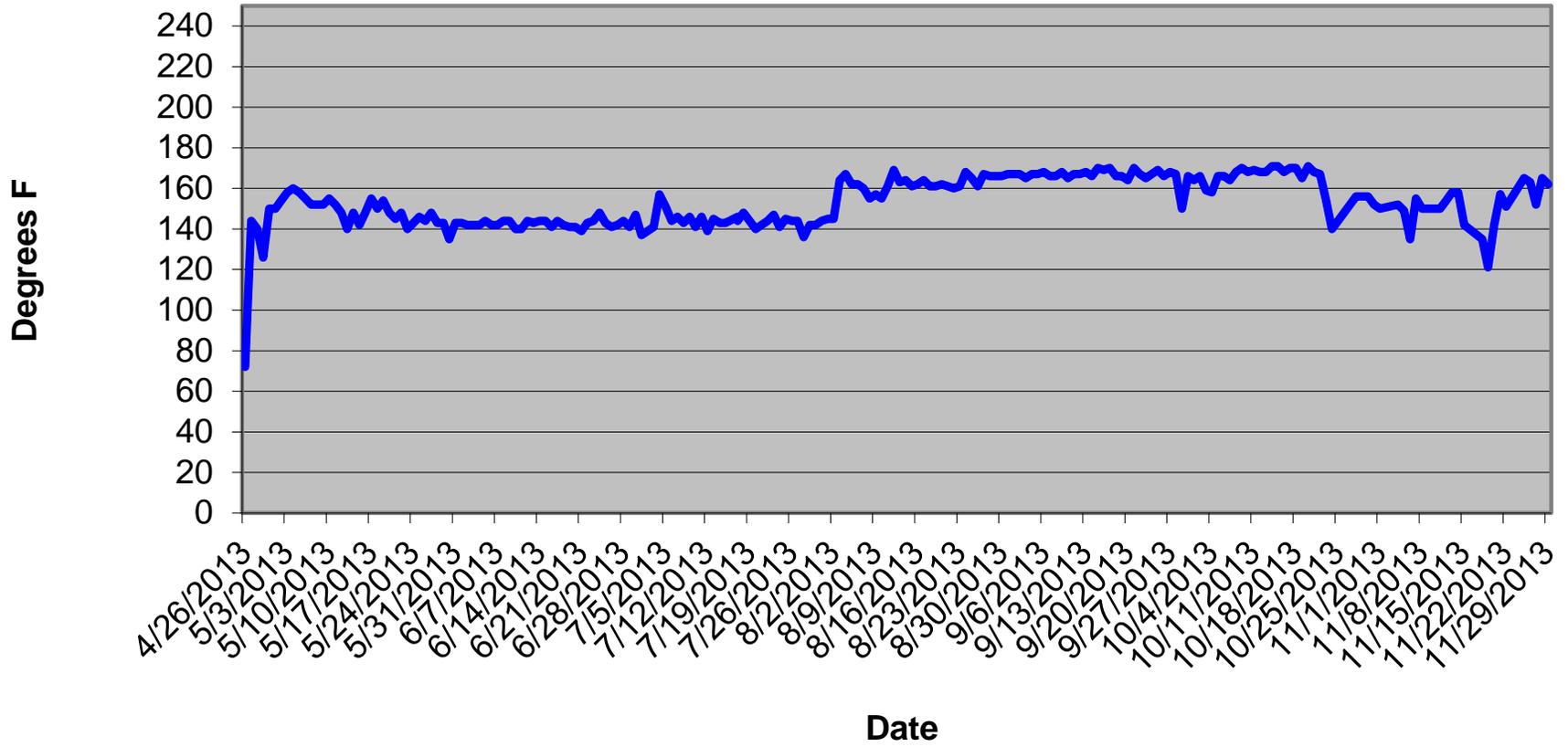
GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS

GIW-1 Wellhead Temperatures



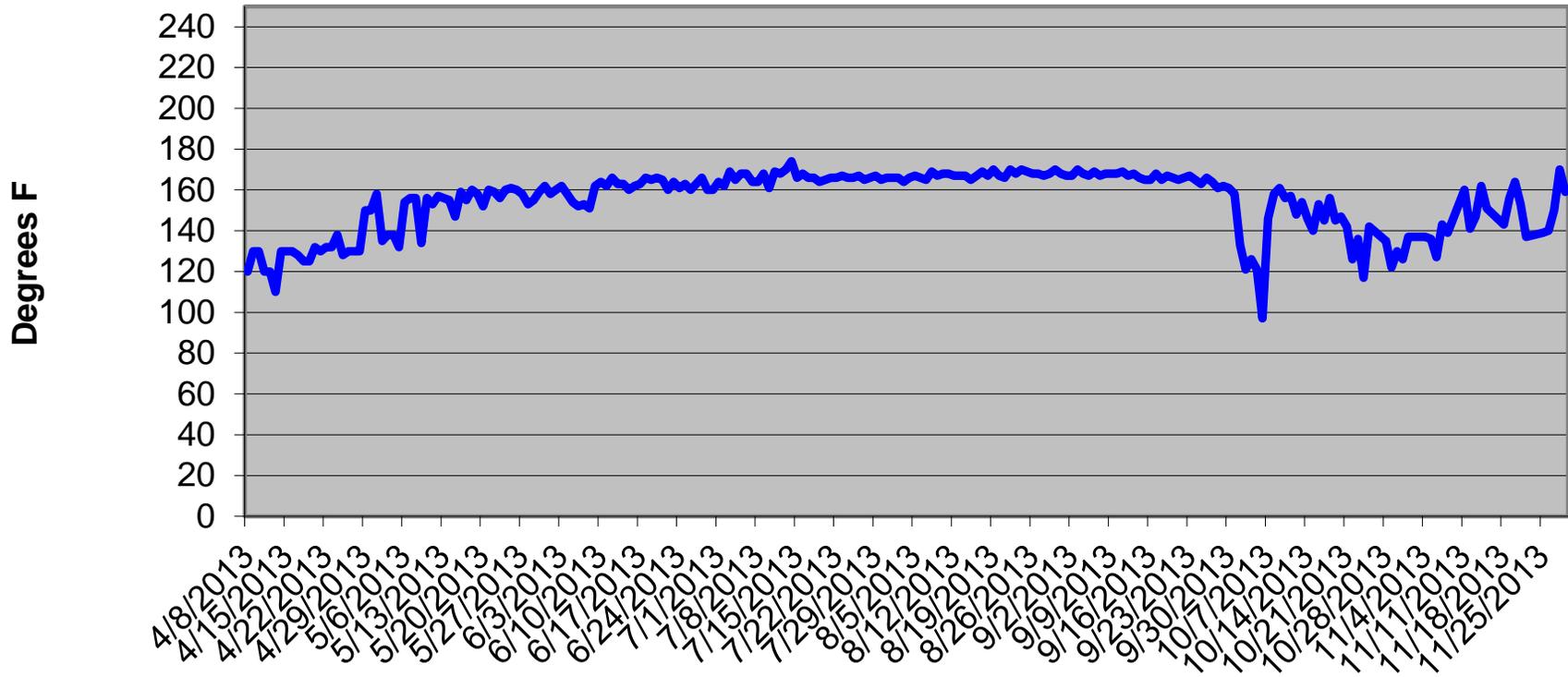
Wellhead Temp. (F)

GIW-2 Wellhead Temperatures



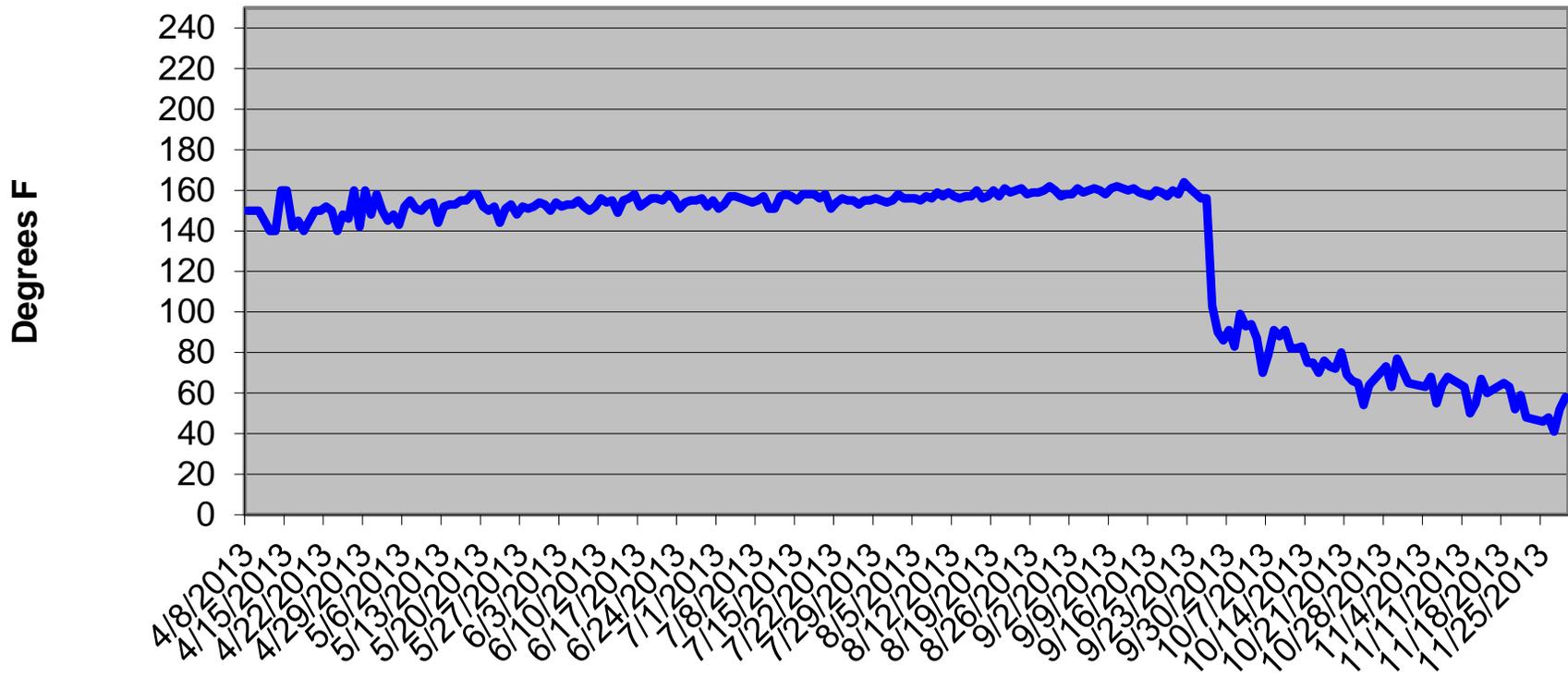
Wellhead Temp. (F)

GIW-3 Wellhead Temperatures



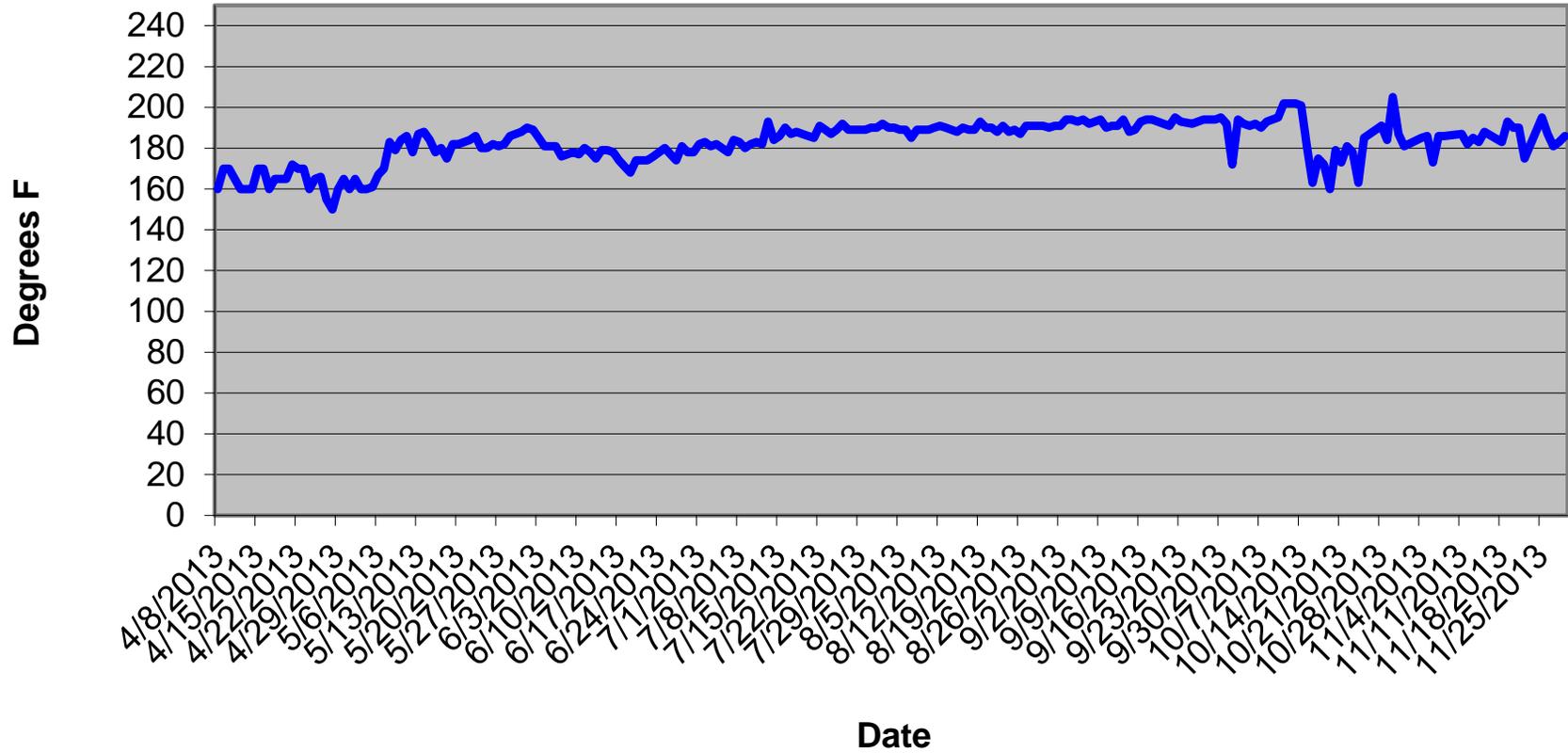
Wellhead Temp. (F)

GIW-4 Wellhead Temperatures



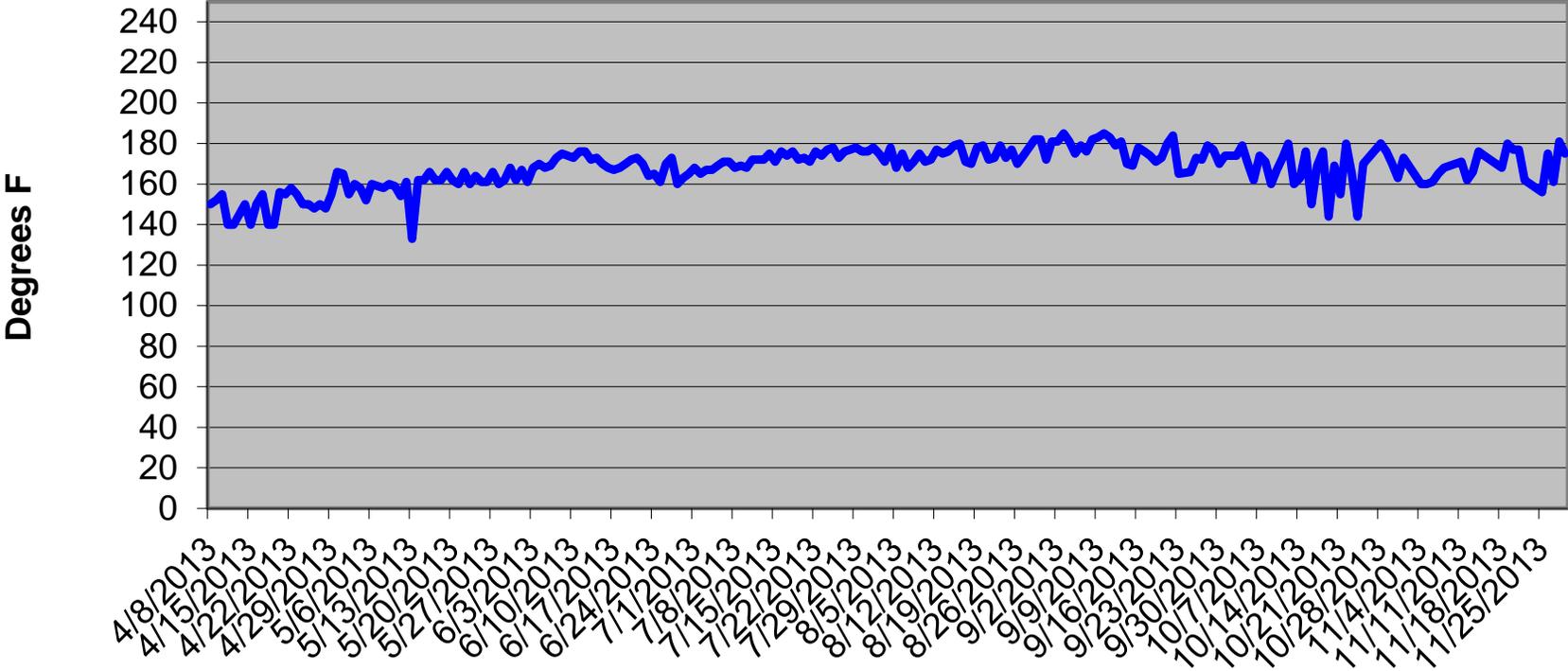
Wellhead Temp. (F)

GIW-5 Wellhead Temperatures



Wellhead Temp. (F)

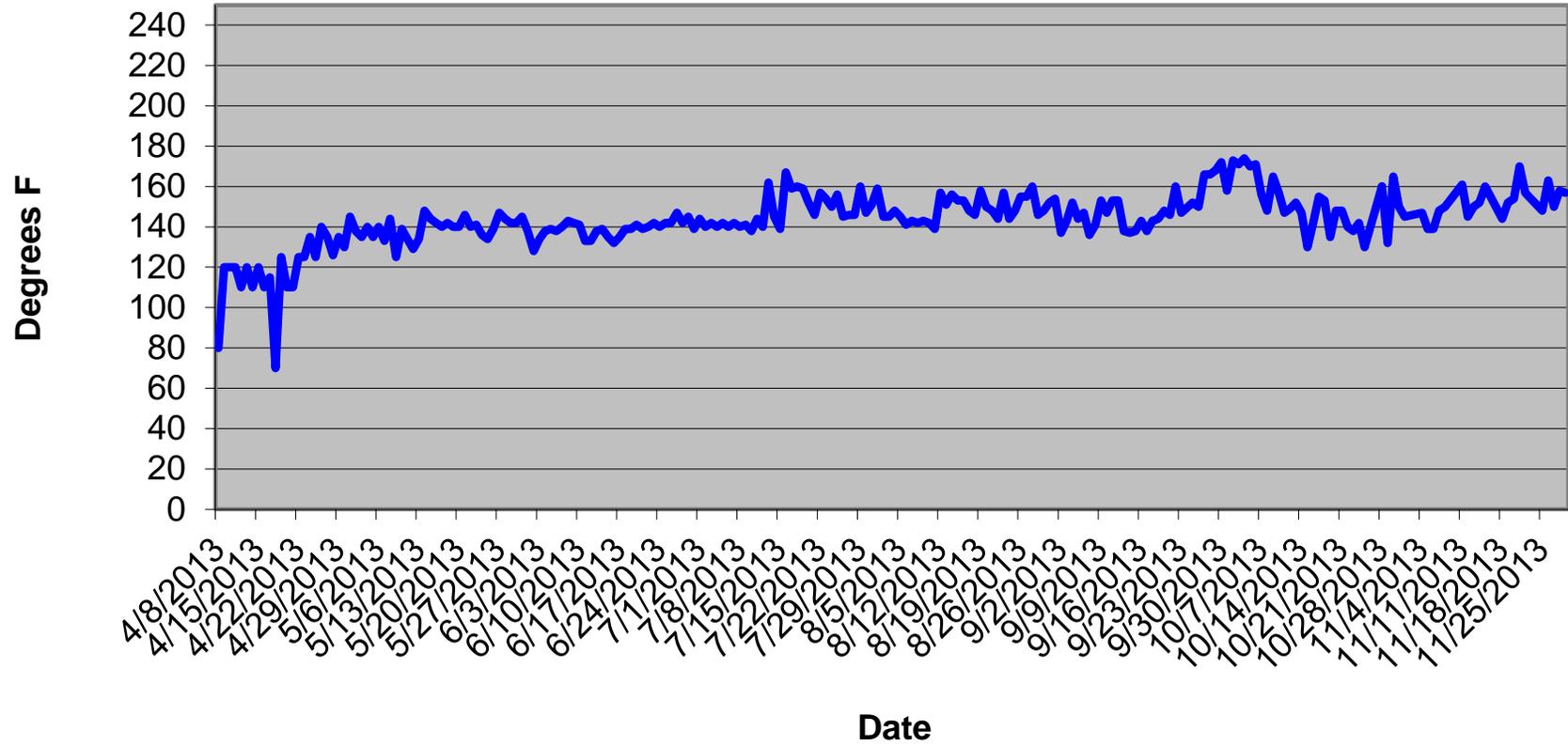
GIW-6 Wellhead Temperatures



Date

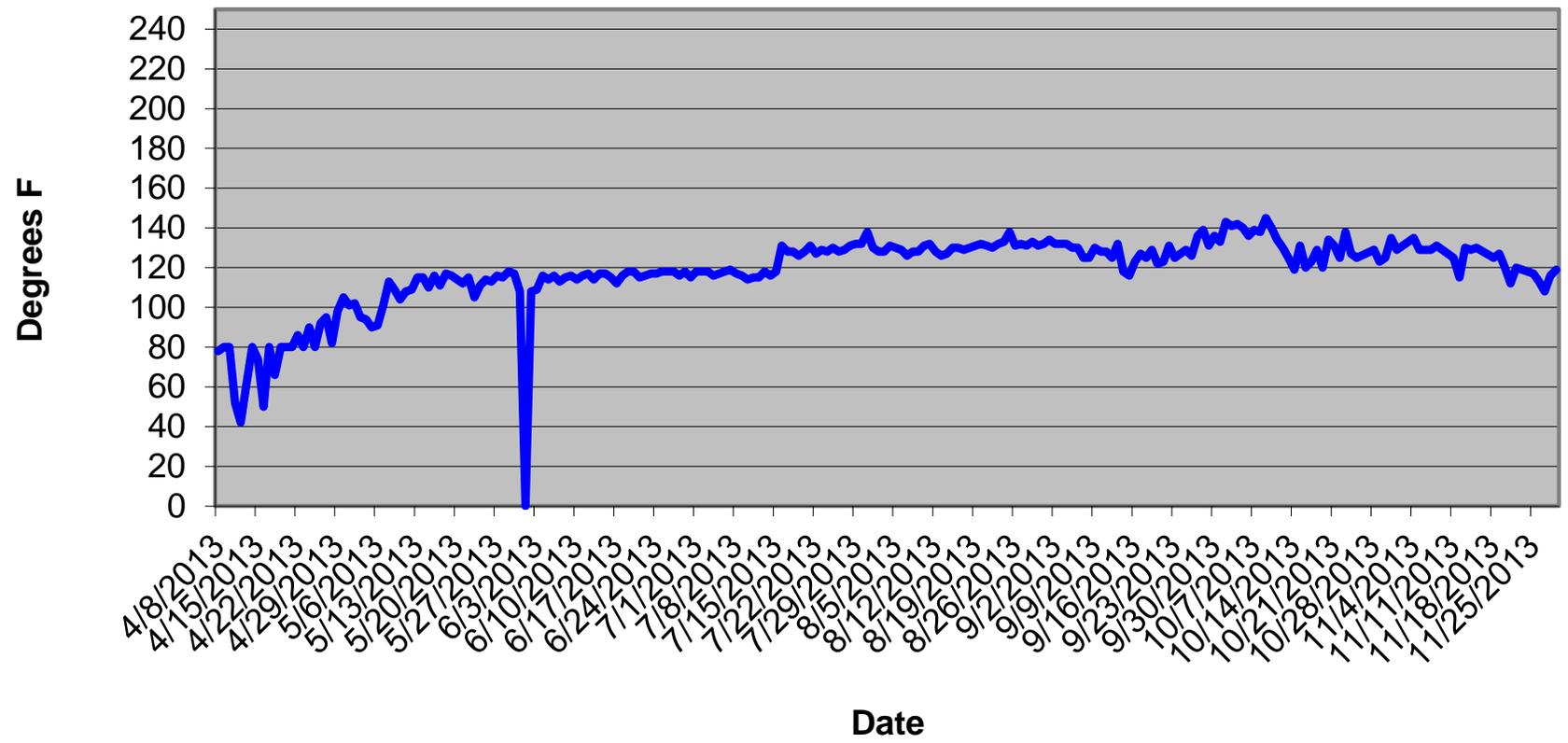
Wellhead Temp. (F)

GIW-7 Wellhead Temperatures



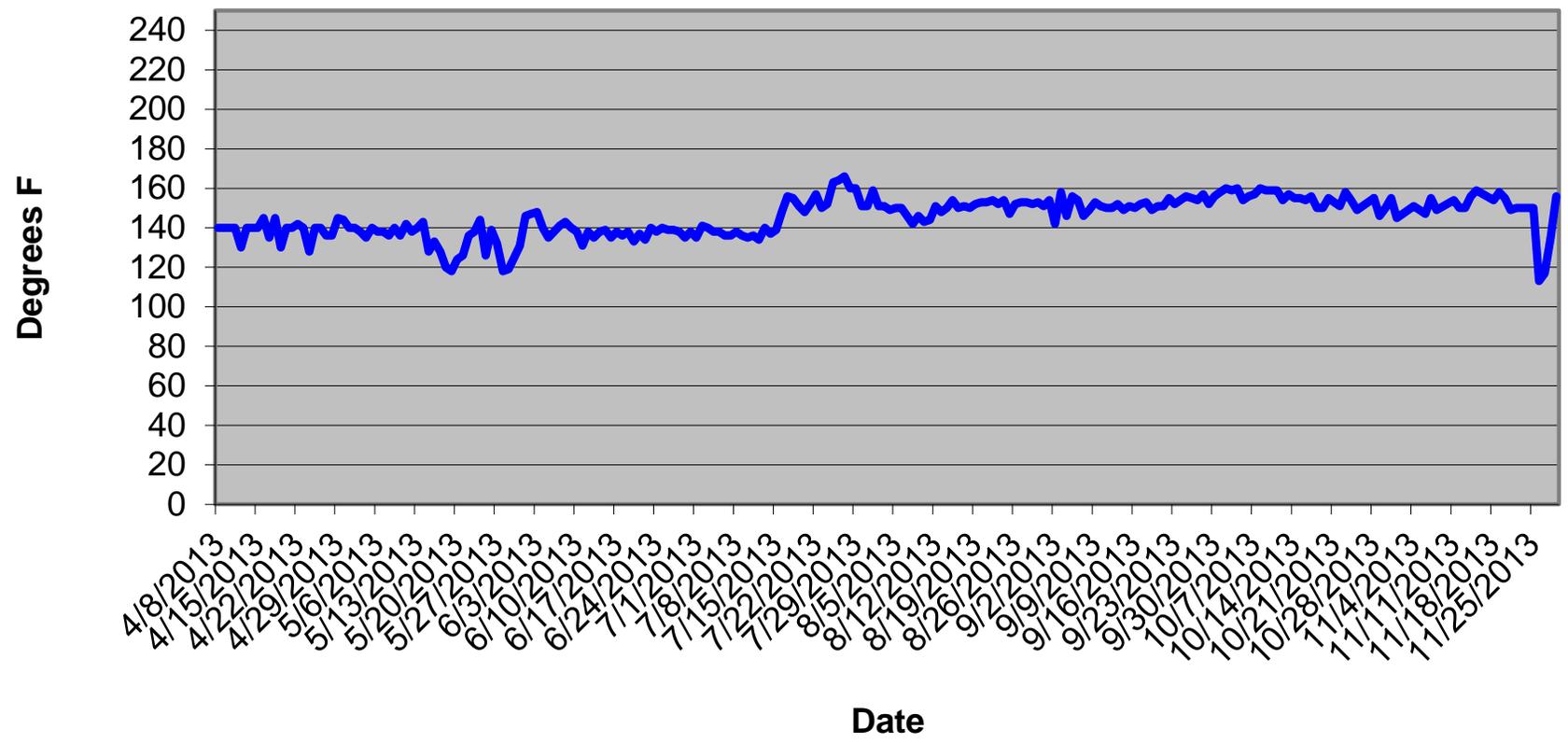
Wellhead Temp. (F)

GIW-8 Wellhead Temperatures



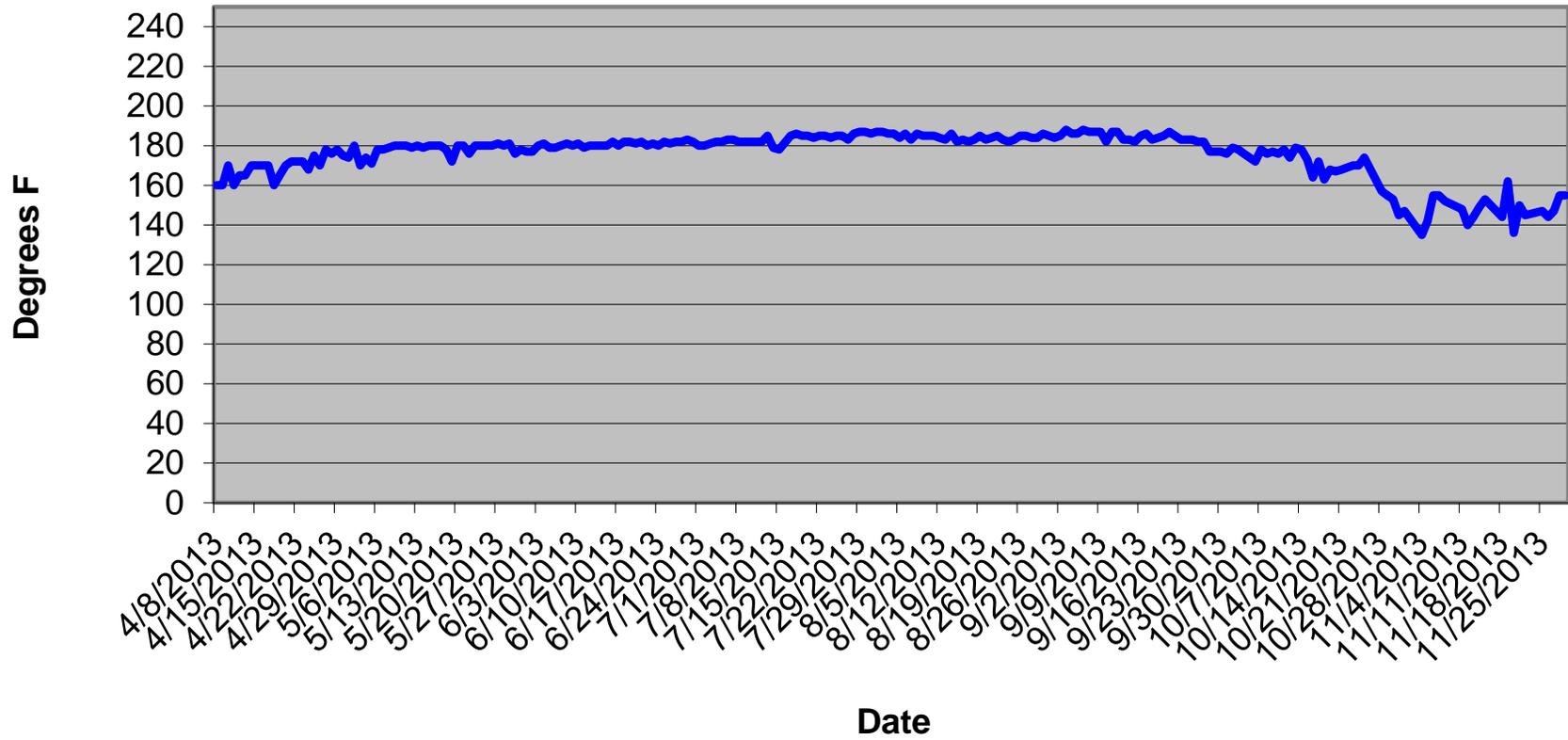
Wellhead Temp. (F)

GIW-9 Wellhead Temperatures



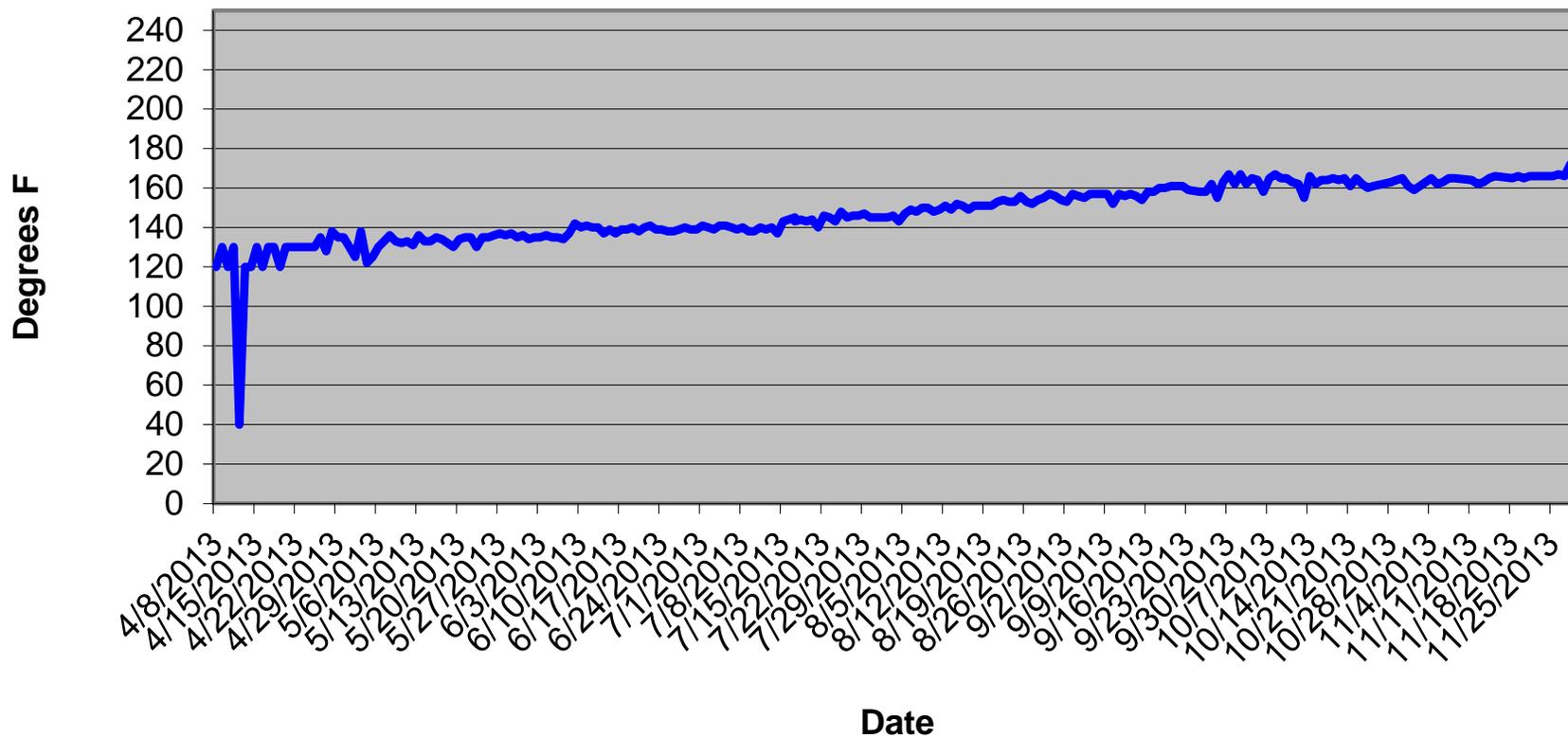
Wellhead Temp. (F)

GIW-10 Wellhead Temperatures



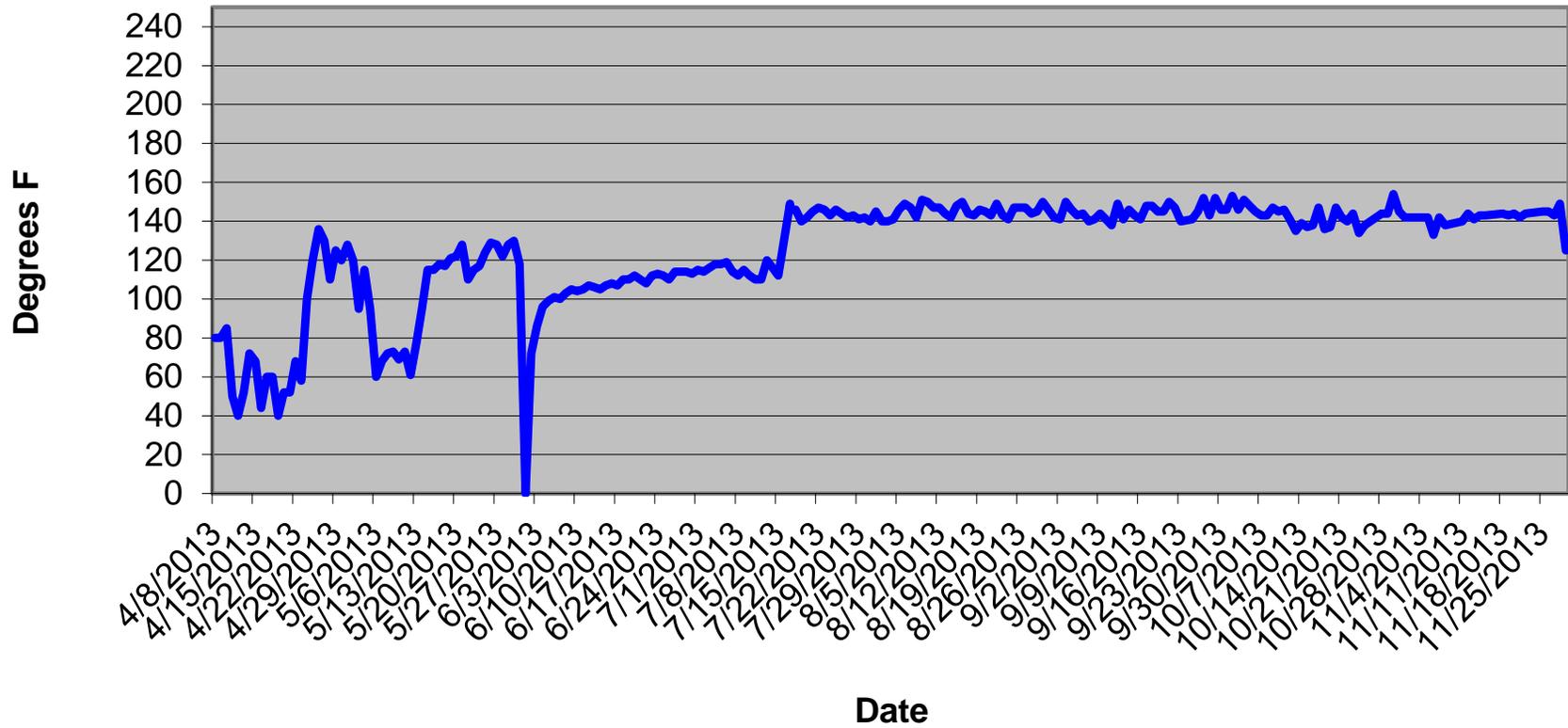
Wellhead Temp. (F)

GIW-11 Wellhead Temperatures



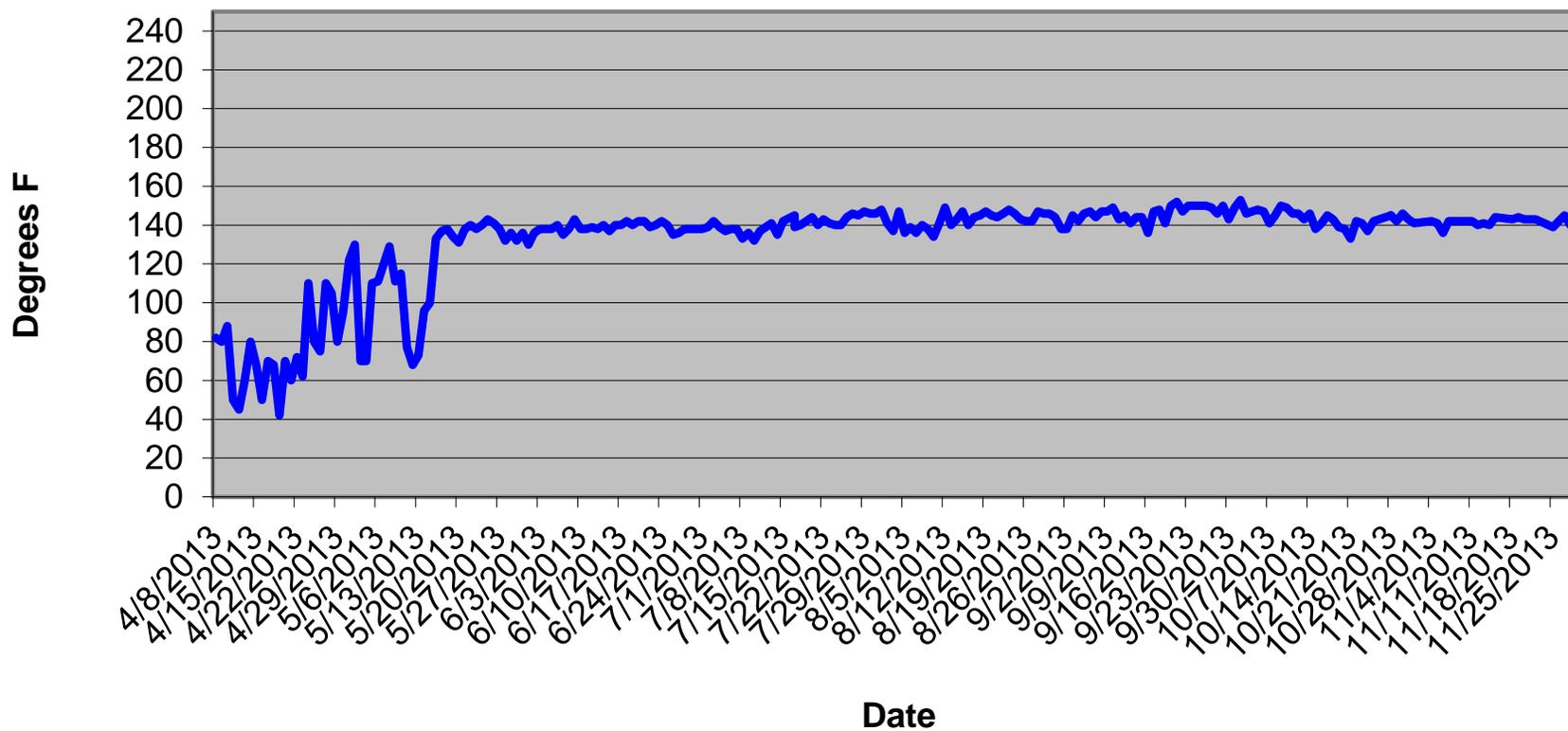
Wellhead Temp. (F)

GIW-12 Wellhead Temperatures



Wellhead Temp. (F)

GIW-13 Wellhead Temperatures



Wellhead Temp. (F)

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
9/30/13	7:40 AM	141° F
10/07/13	11:30 AM	144° F
10/14/13	9:00 AM	140° F
10/21/13	7:40 AM	139° F (Note 1)
10/28/13	7:45 AM	133° F
11/04/13	8:20 AM	148° F
11/11/13	8:30 AM	137° F
11/18/13	2:15 PM	133° F
11/25/13	10:45 AM	136° F
12/02/13	9:15 AM	136° F

- 1) Beginning October 21, 2013, the weekly temperature monitoring event that is used for this table will be supplemented with gas quality readings to serve as a full weekly gas wellhead monitoring event.