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 17, 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. Bridgeton Landfill has committed to replacing TMP-13 as soon as possible and has ordered parts and drilling to accomplish this.

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, -12, and -13. Only GIW-11 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.

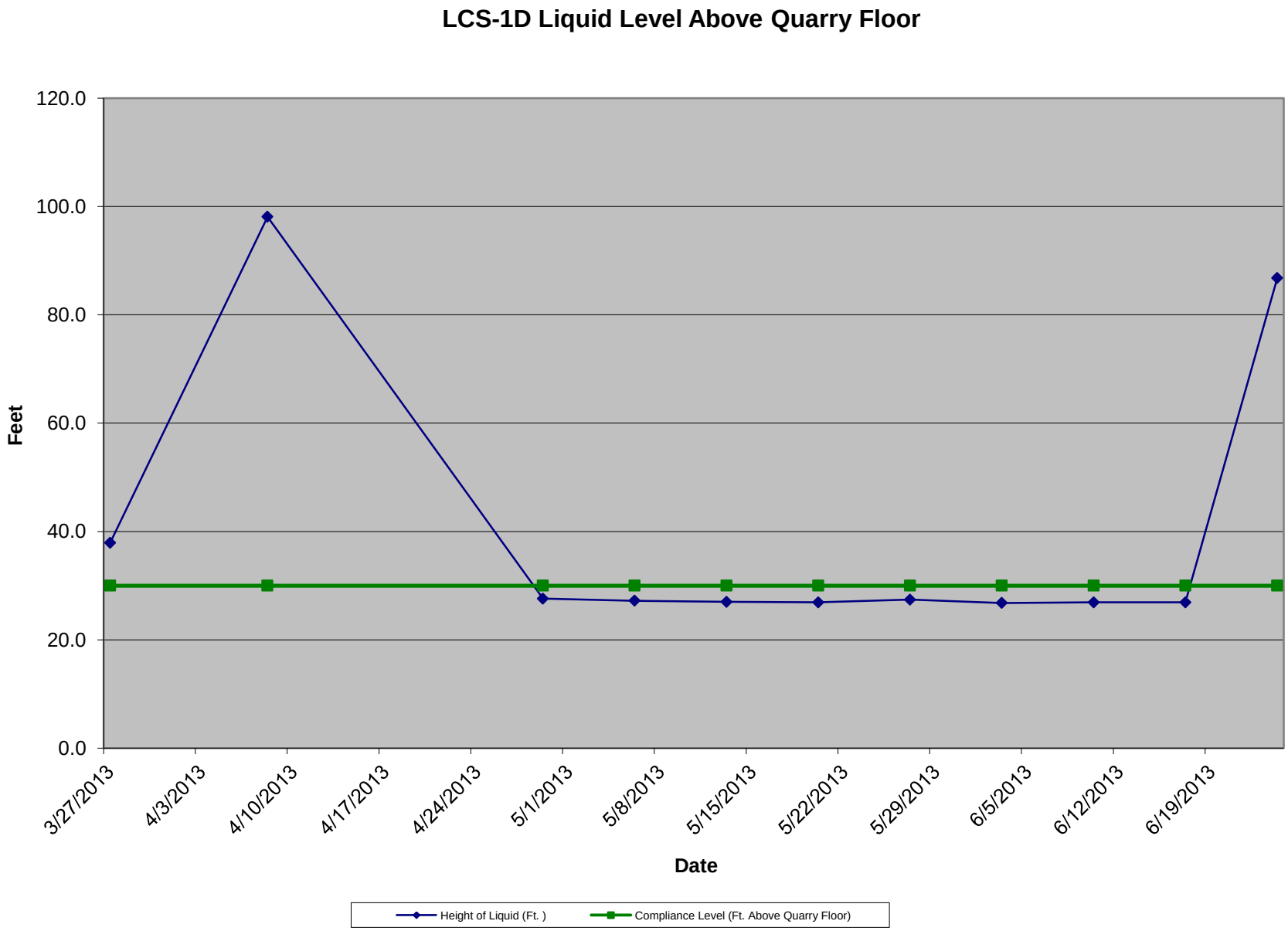
Attachment D - Gas Well GEW-54 Wellhead Temperature

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.

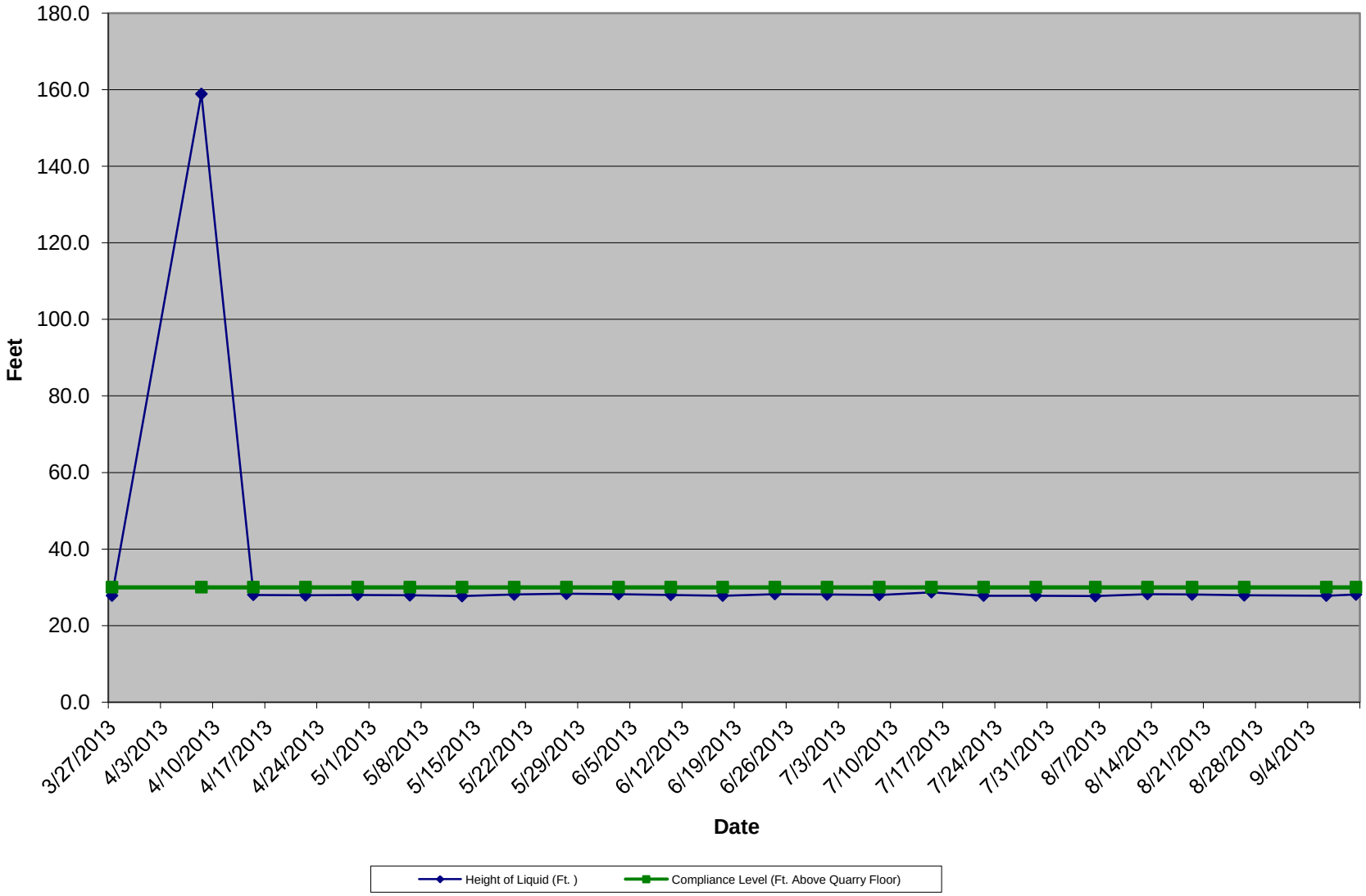
As seen in Attachment D, the most recent wellhead temperature is 151° F. The past four weekly monitoring events indicate a 143-151° F temperature range which is within the range of fluctuation experienced over the past several months.

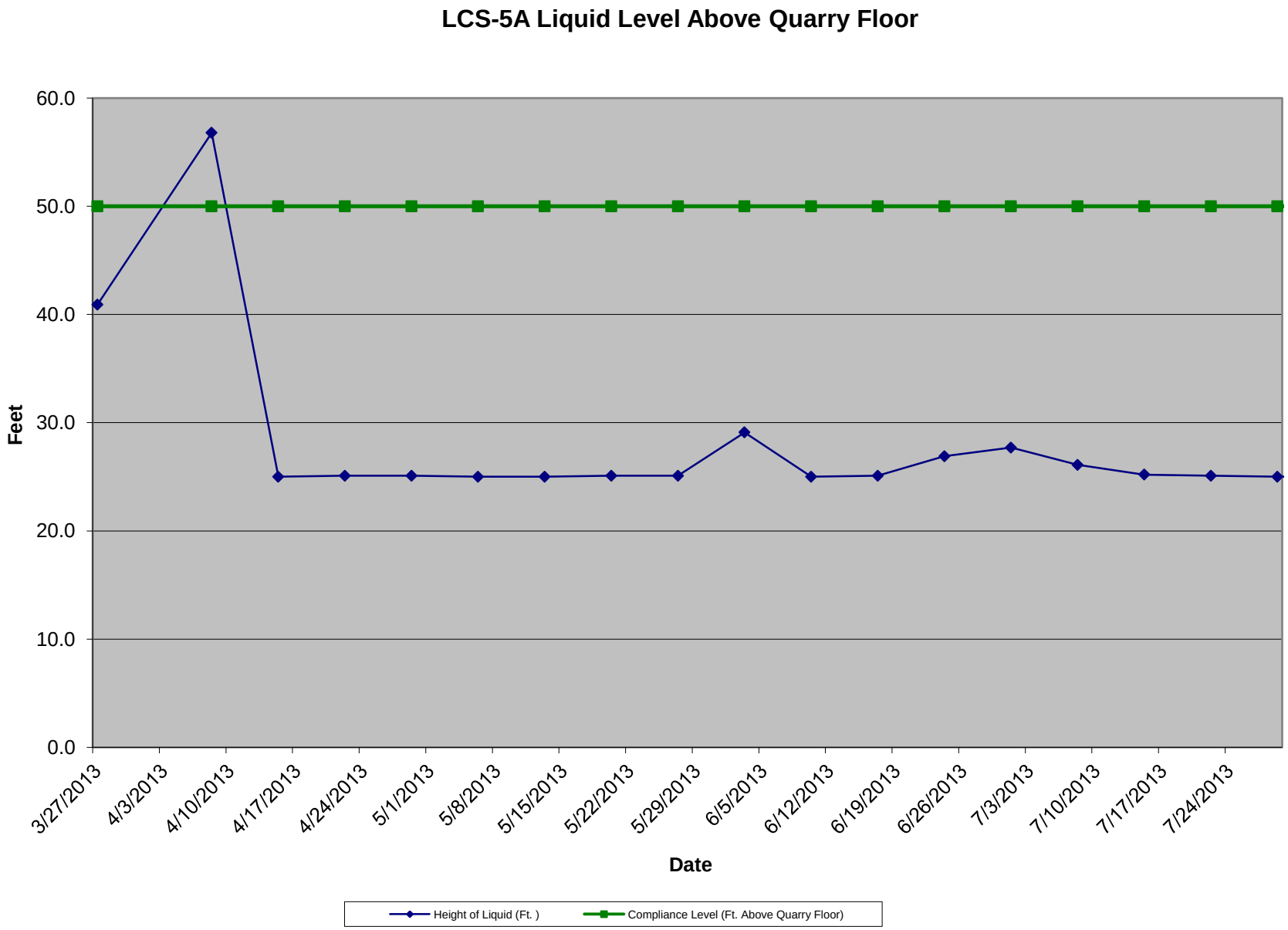
ATTACHMENT A

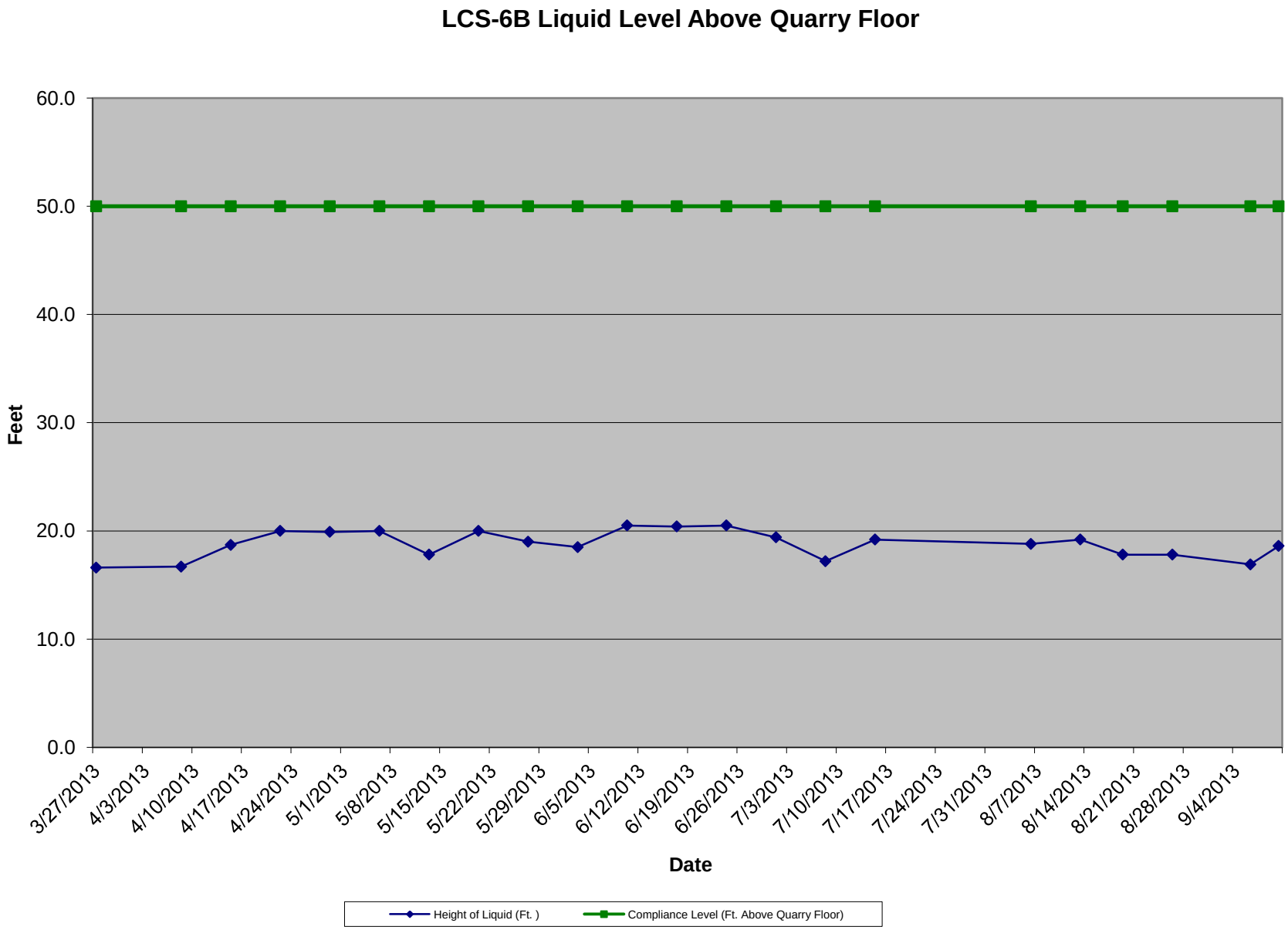
LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS


LCS-1D Liquid Level Above Quarry Floor
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Feet
3/27/2013
4/3/2013
4/10/2013
4/17/2013
4/24/2013
5/1/2013
5/8/2013
5/15/2013
5/22/2013
5/29/2013
6/5/2013
6/12/2013
6/19/2013
Date
Height of Liquid (Ft.)
Compliance Level (Ft. Above Quarry Floor)

LCS-2D Liquid Level Above Quarry Floor



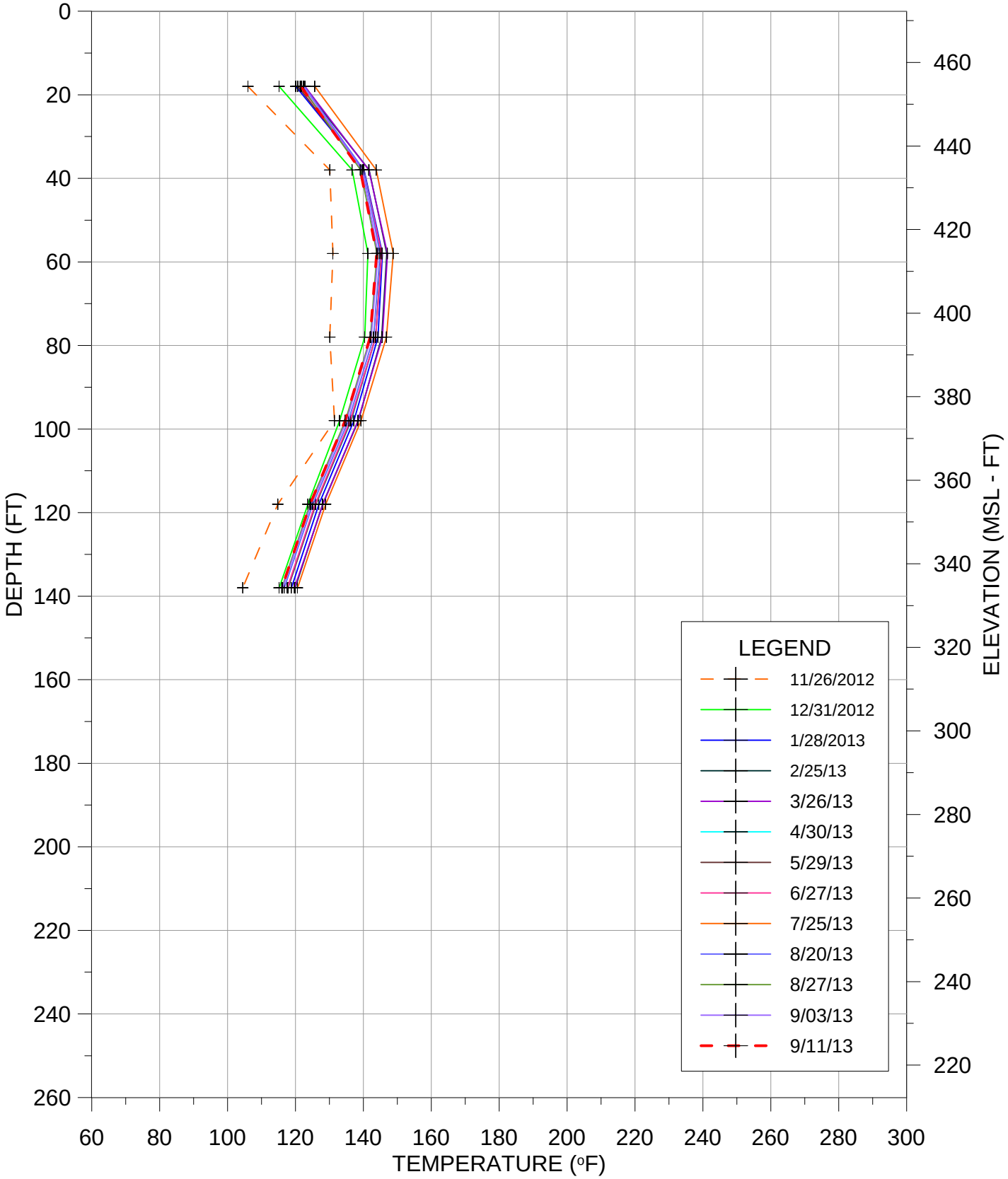

LCS-5A Liquid Level Above Quarry Floor
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Feet
3/27/2013
4/3/2013
4/10/2013
4/17/2013
4/24/2013
5/1/2013
5/8/2013
5/15/2013
5/22/2013
5/29/2013
6/5/2013
6/12/2013
6/19/2013
6/26/2013
7/3/2013
7/10/2013
7/17/2013
7/24/2013
Date
Height of Liquid (Ft.)
Compliance Level (Ft. Above Quarry Floor)


LCS-6B Liquid Level Above Quarry Floor
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Feet
3/27/2013
4/3/2013
4/10/2013
4/17/2013
4/24/2013
5/1/2013
5/8/2013
5/15/2013
5/22/2013
5/29/2013
6/5/2013
6/12/2013
6/19/2013
6/26/2013
7/3/2013
7/10/2013
7/17/2013
7/24/2013
7/31/2013
8/7/2013
8/14/2013
8/21/2013
8/28/2013
9/4/2013
Date
Height of Liquid (Ft.)
Compliance Level (Ft. Above Quarry Floor)

ATTACHMENT B

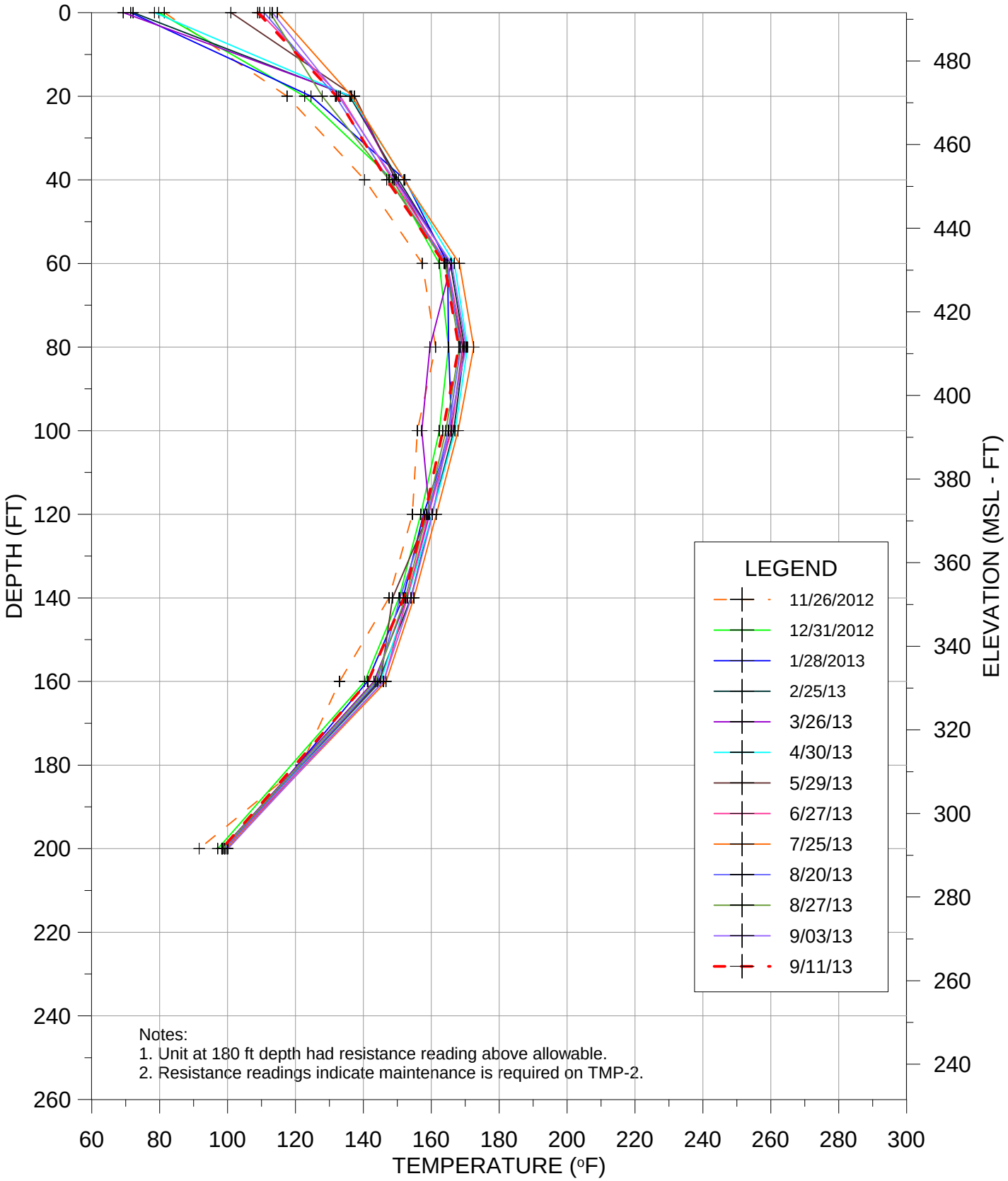
TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS

TMP-1



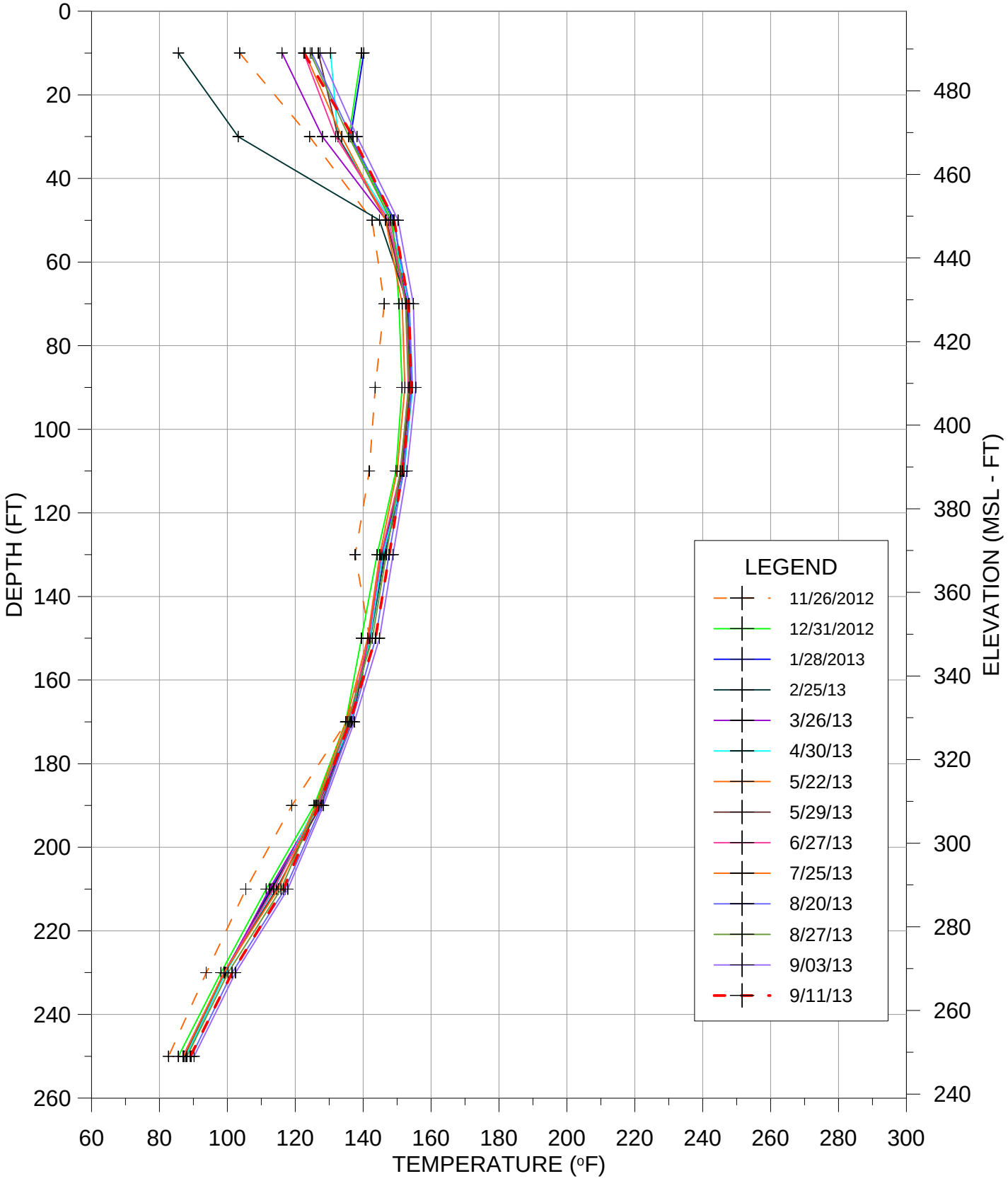
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-2



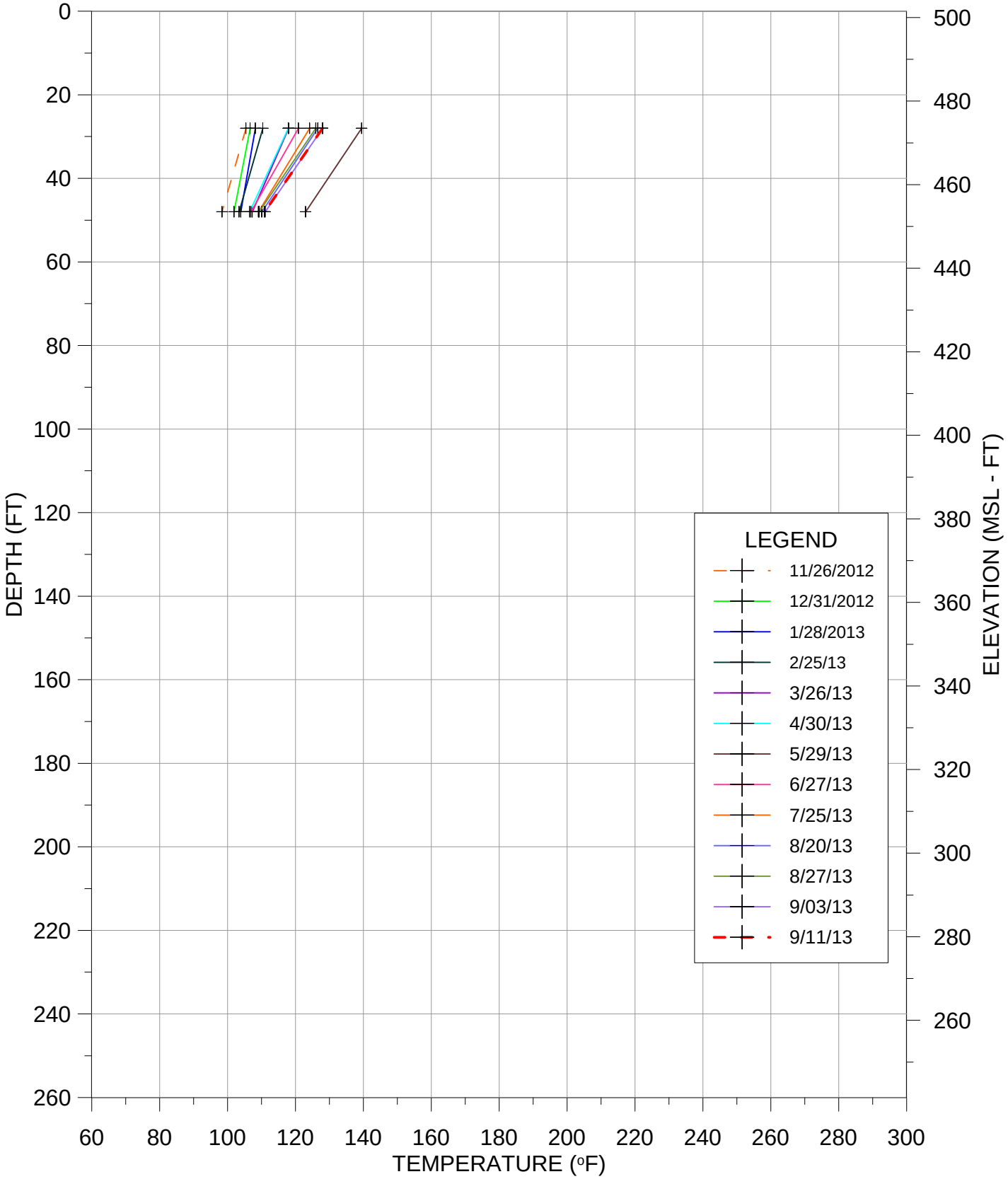
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-3



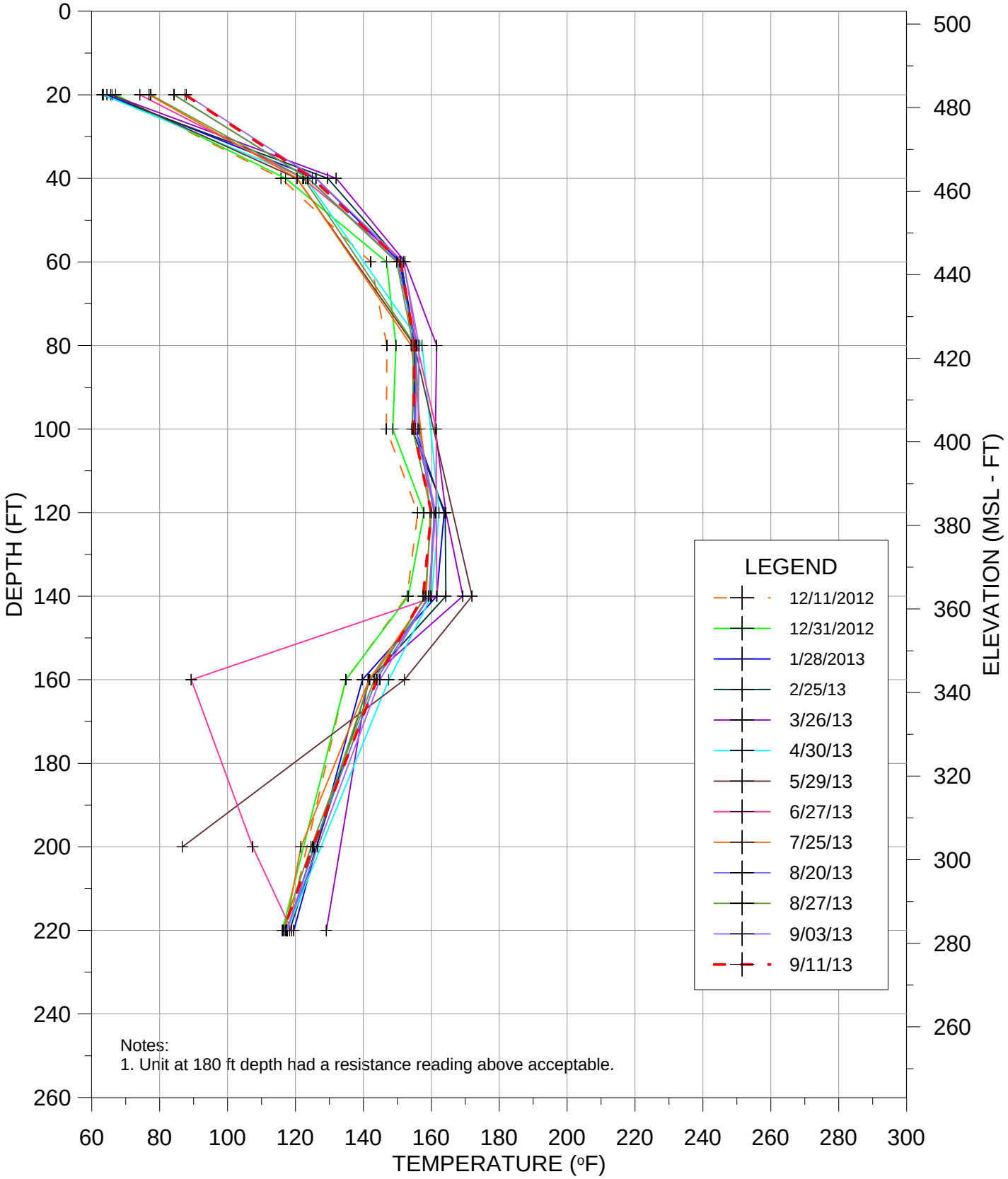
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-4



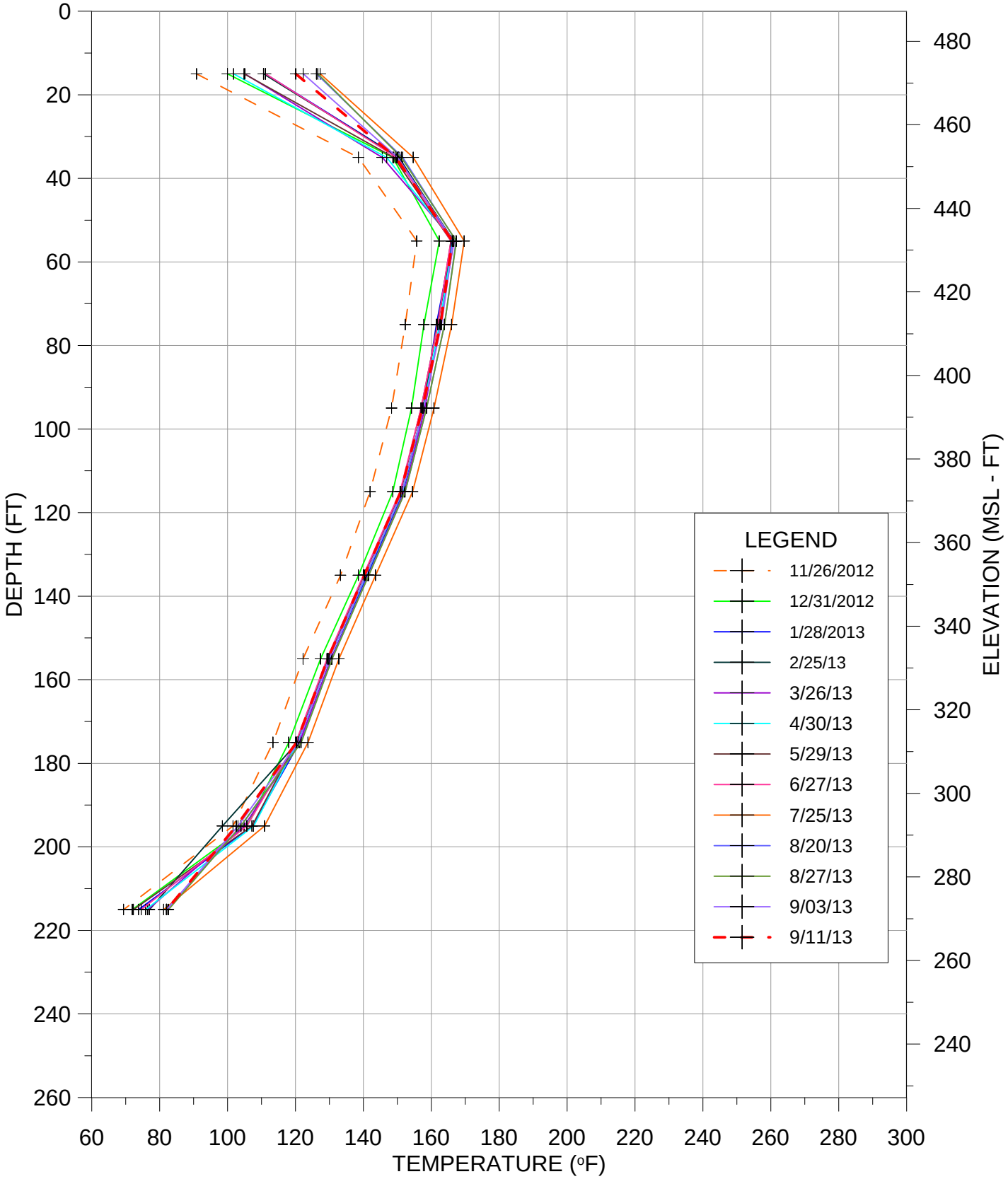
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-5



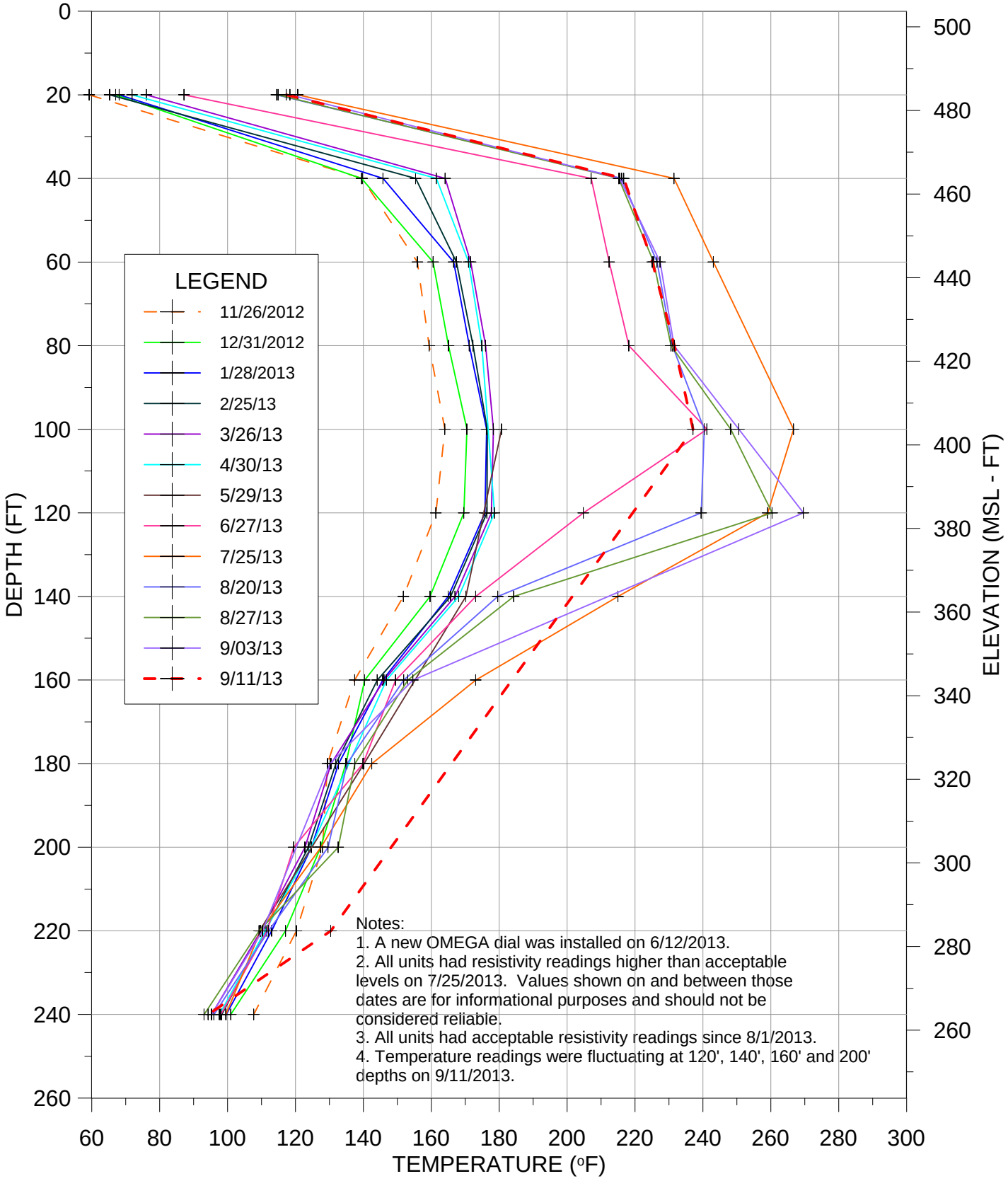
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-6



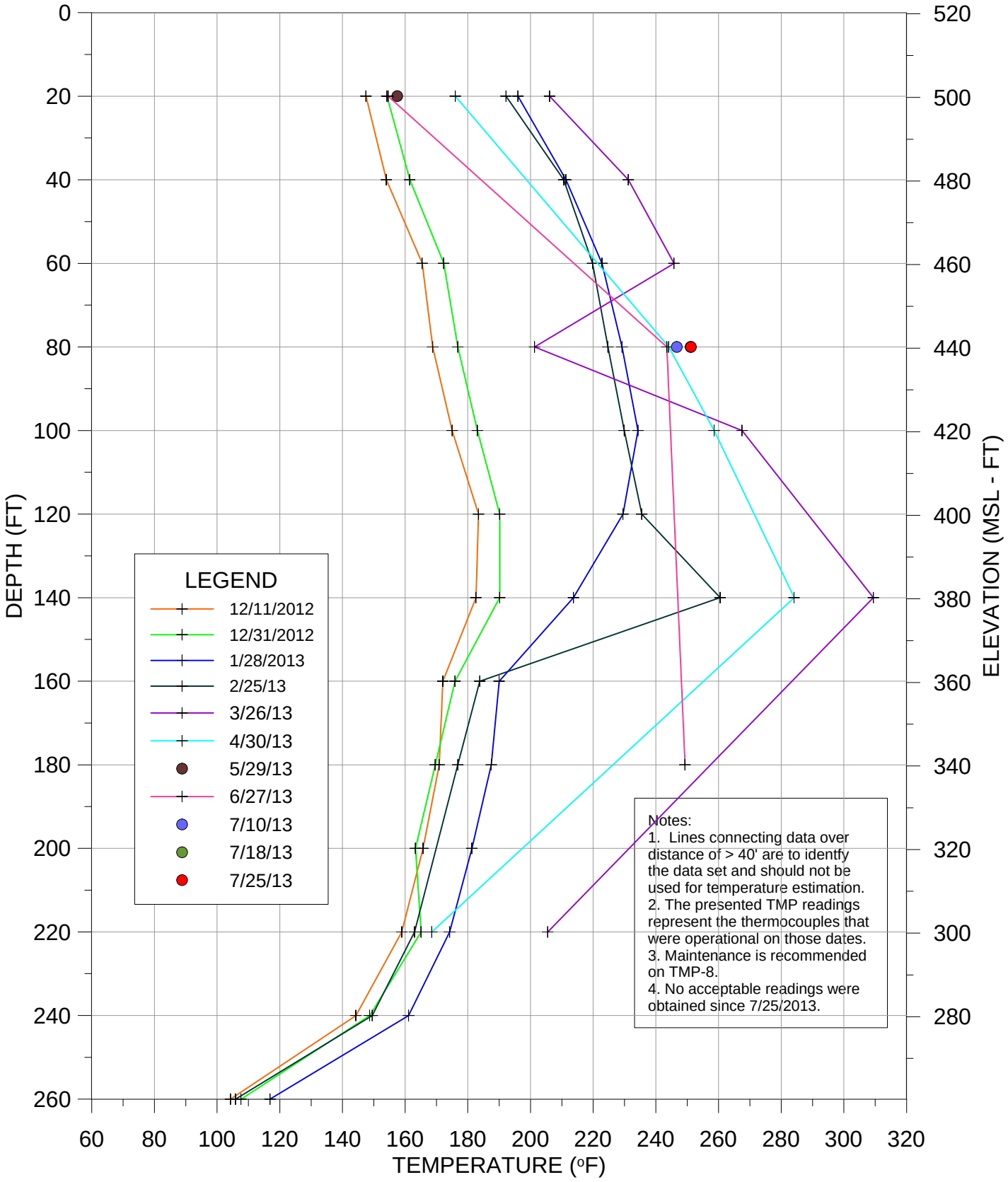
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-7R



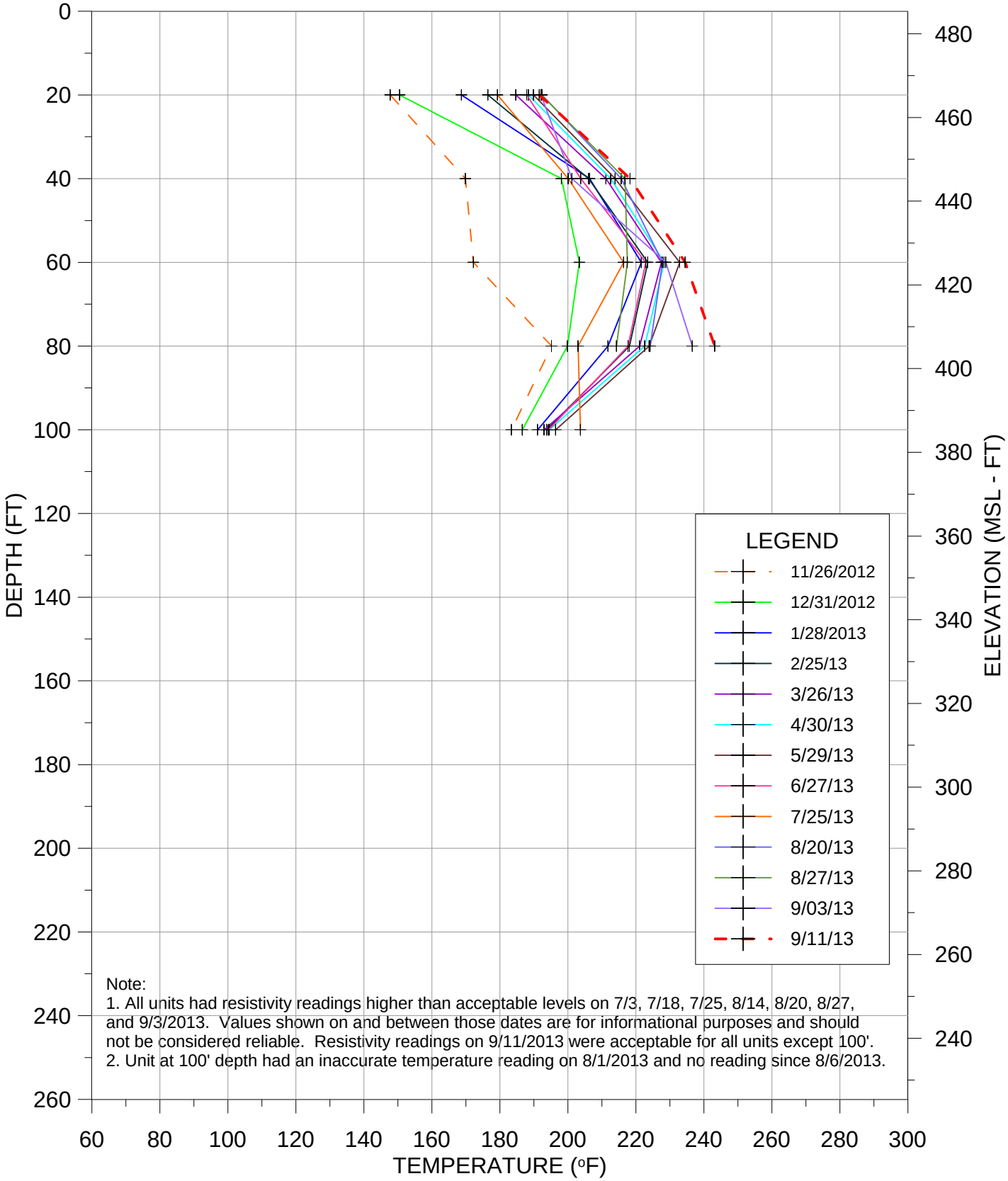
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-8



TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

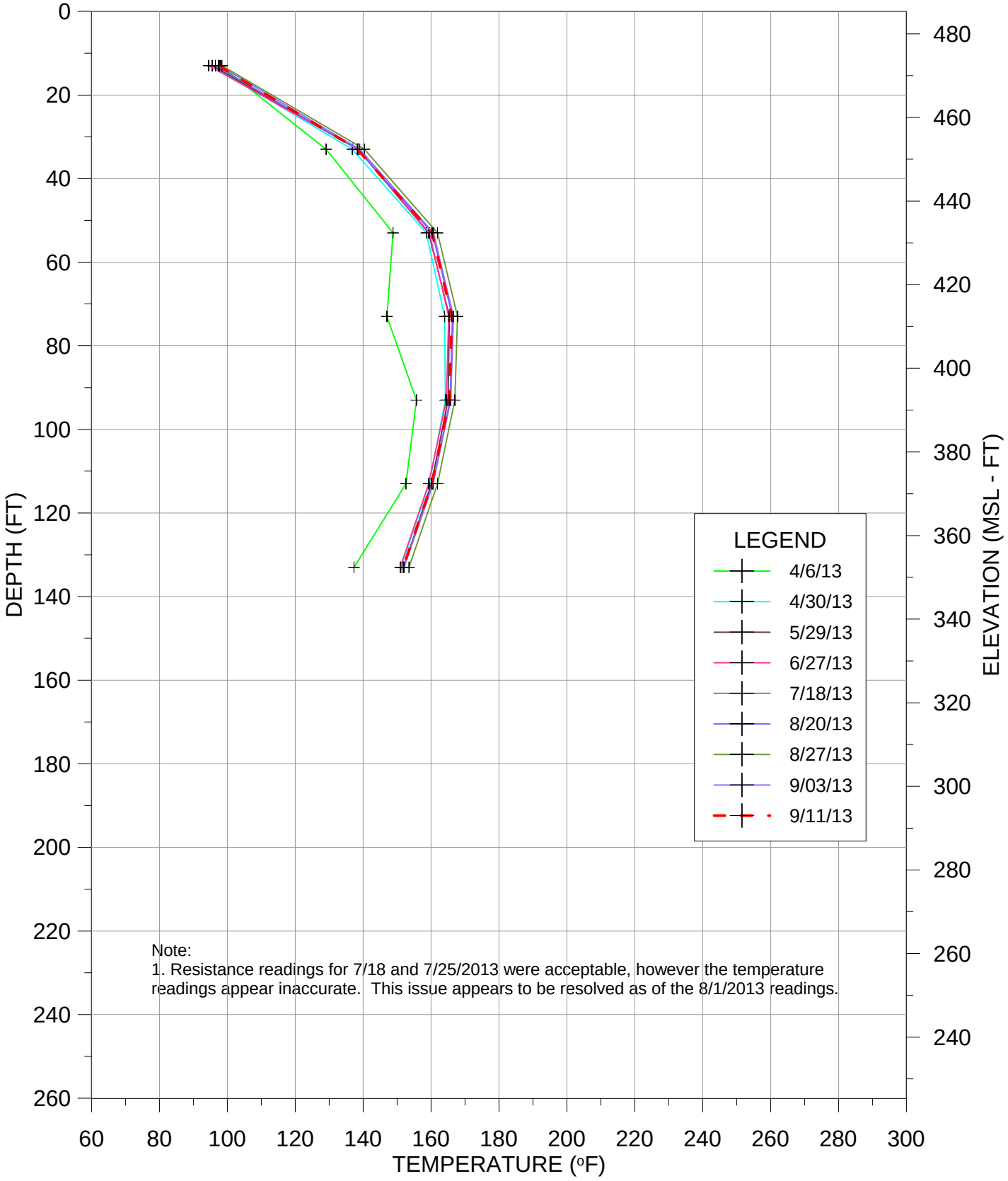
TMP-9



Note:
1. All units had resistivity readings higher than acceptable levels on 7/3, 7/18, 7/25, 8/14, 8/20, 8/27, and 9/3/2013. Values shown on and between those dates are for informational purposes and should not be considered reliable. Resistivity readings on 9/11/2013 were acceptable for all units except 100'.
2. Unit at 100' depth had an inaccurate temperature reading on 8/1/2013 and no reading since 8/6/2013.

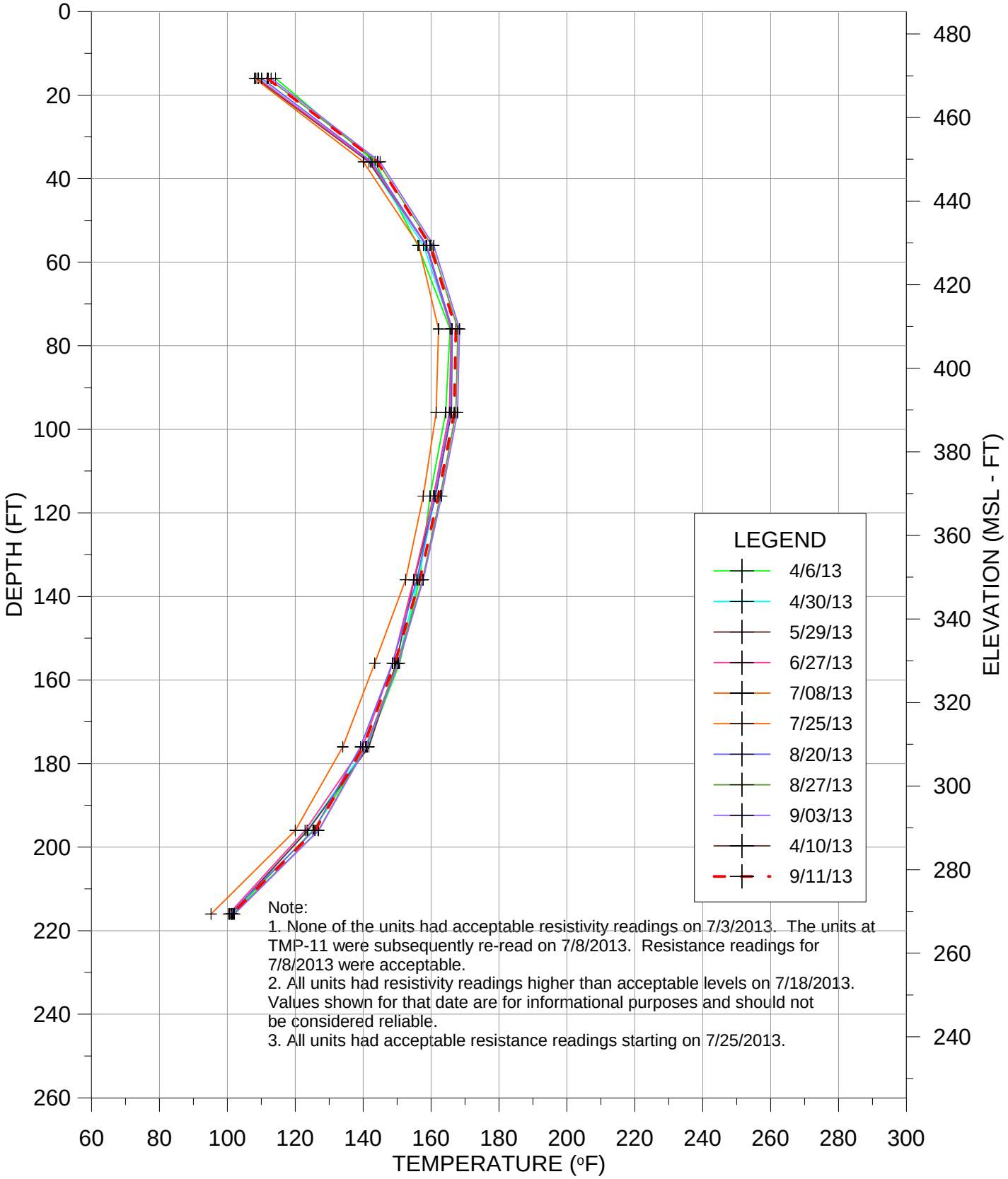
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-10



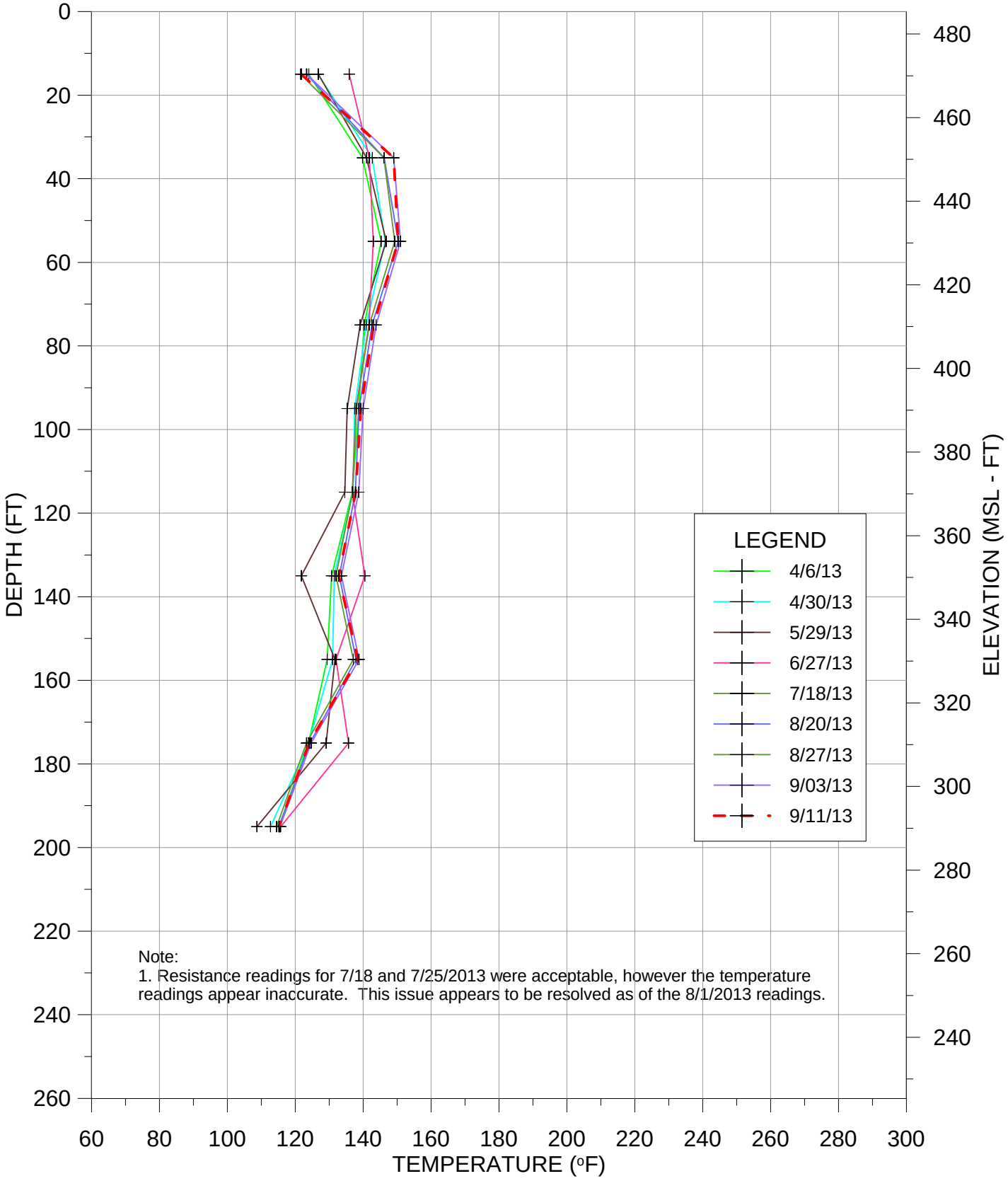
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-11



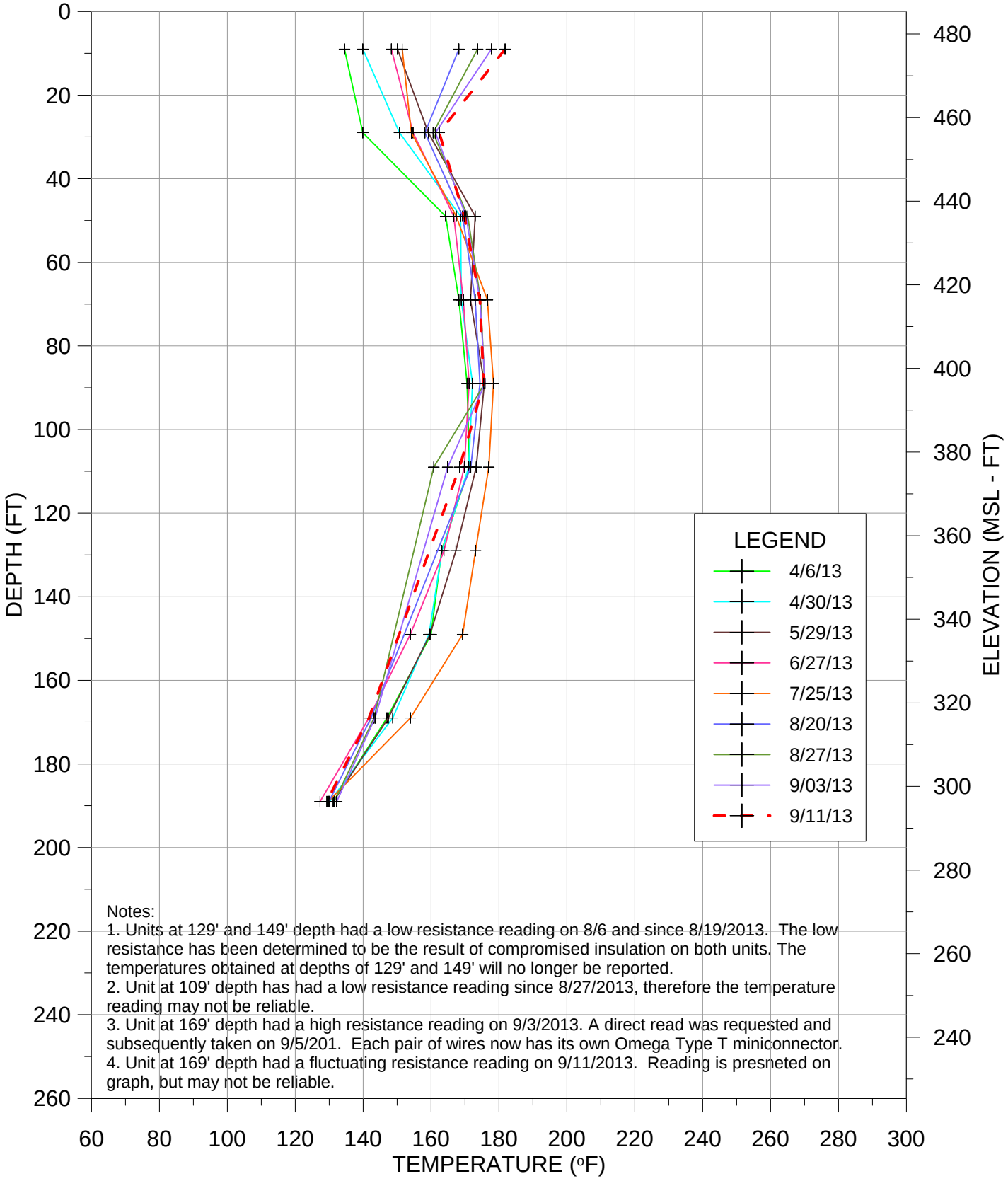
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-12



TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

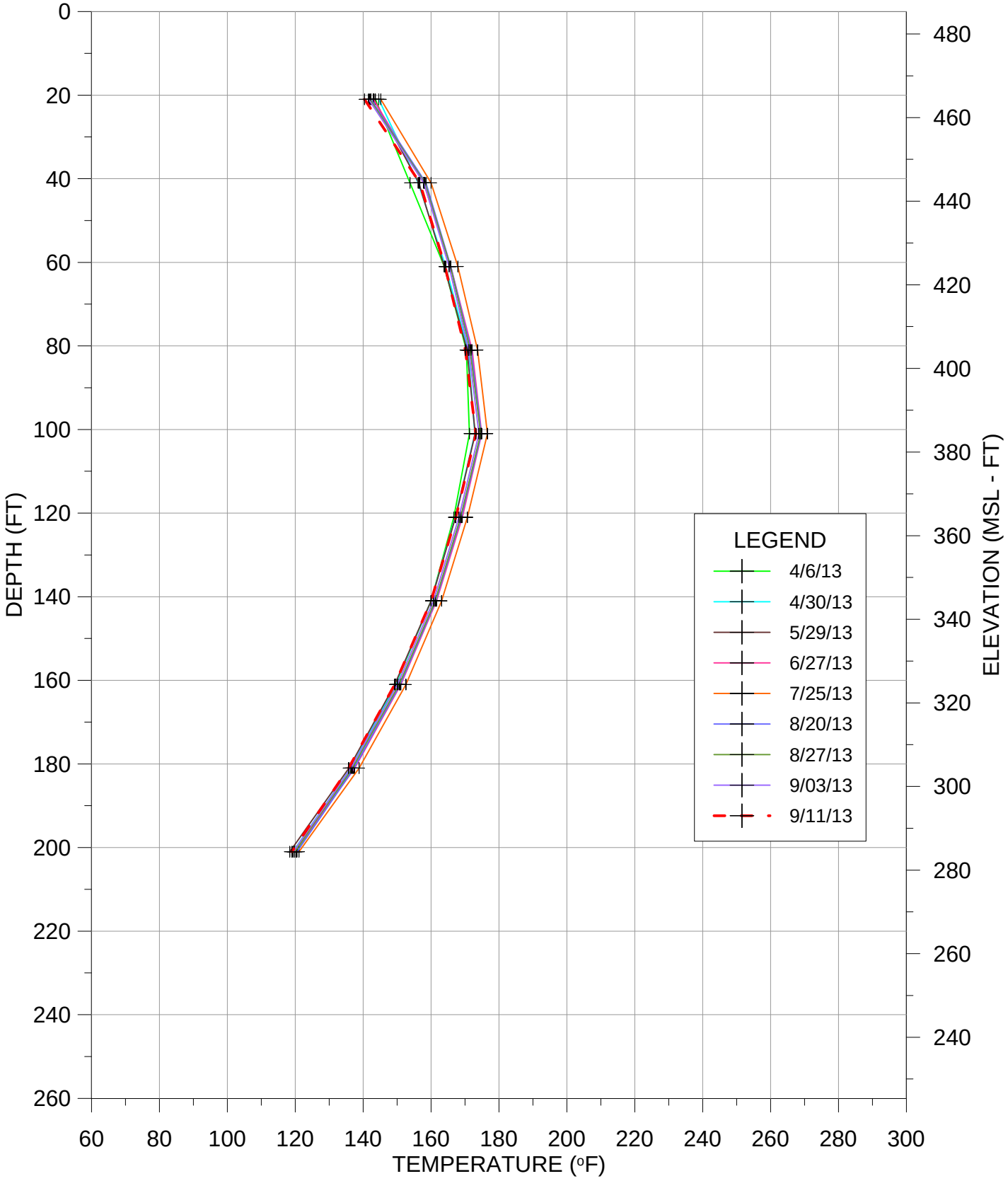
TMP-13



Notes:
1. Units at 129' and 149' depth had a low resistance reading on 8/6 and since 8/19/2013. The low resistance has been determined to be the result of compromised insulation on both units. The temperatures obtained at depths of 129' and 149' will no longer be reported.
2. Unit at 109' depth has had a low resistance reading since 8/27/2013, therefore the temperature reading may not be reliable.
3. Unit at 169' depth had a high resistance reading on 9/3/2013. A direct read was requested and subsequently taken on 9/5/201. Each pair of wires now has its own Omega Type T miniconnector.
4. Unit at 169' depth had a fluctuating resistance reading on 9/11/2013. Reading is presneted on graph, but may not be reliable.

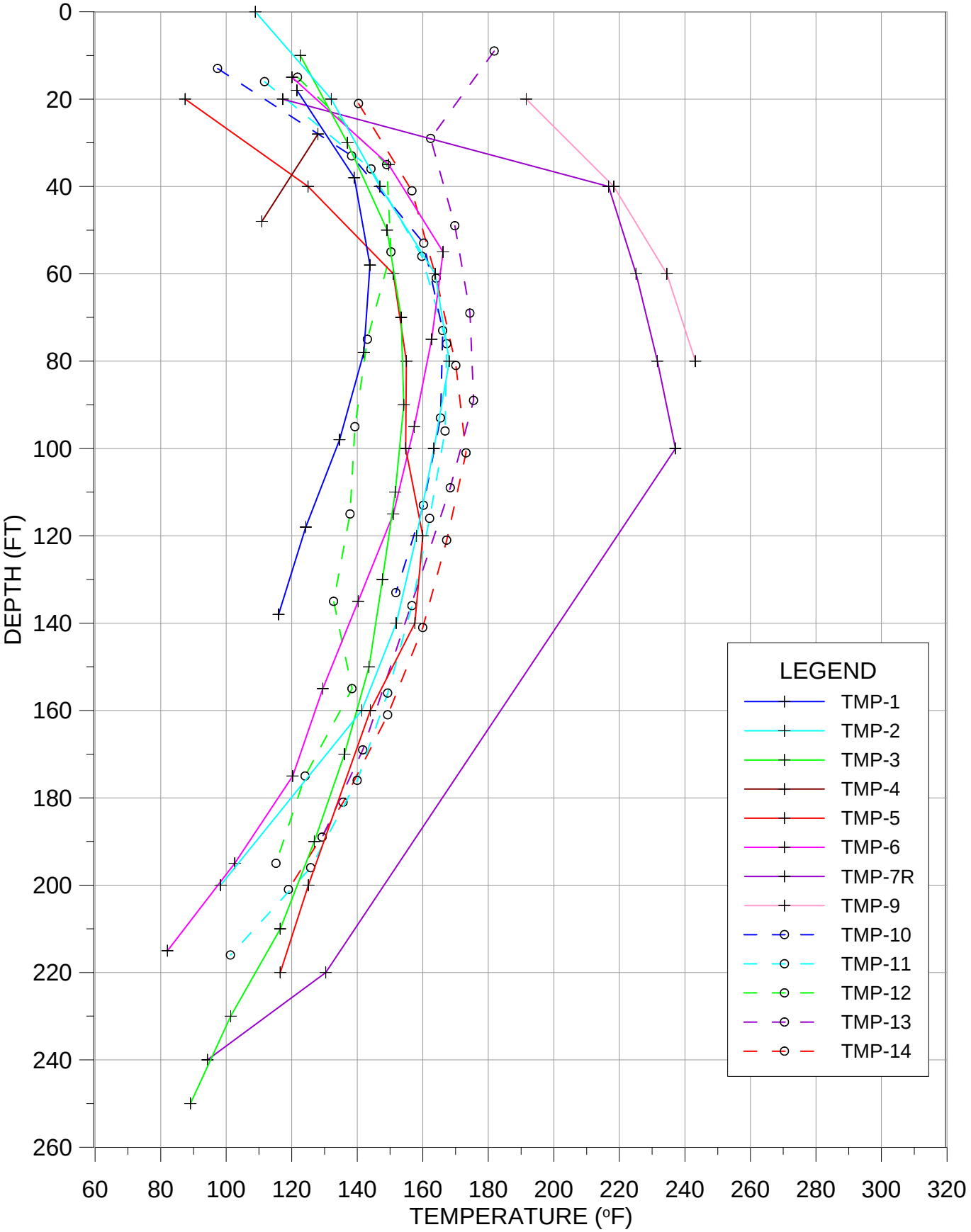
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-14



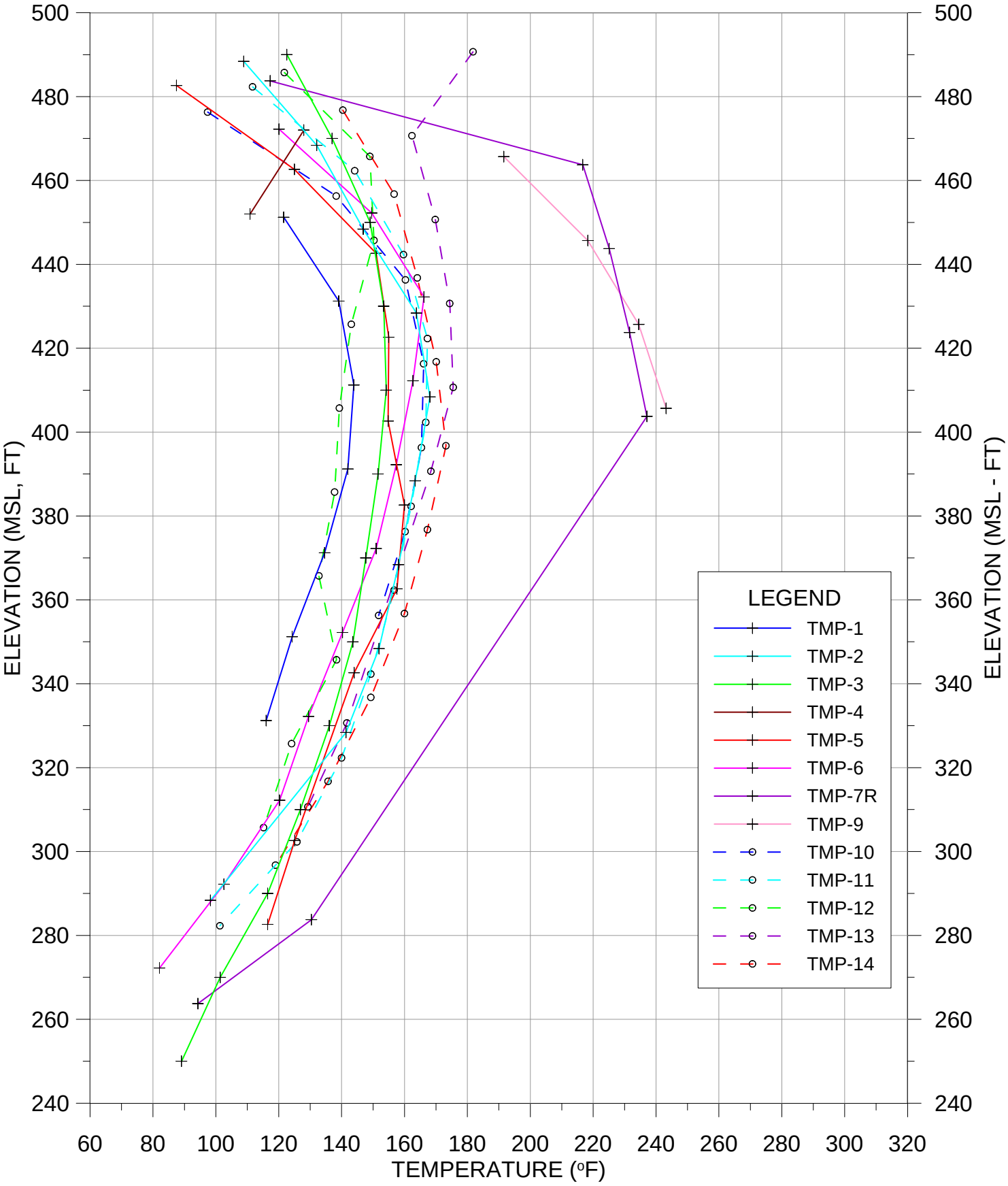
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

9/11/2013 -DEPTH



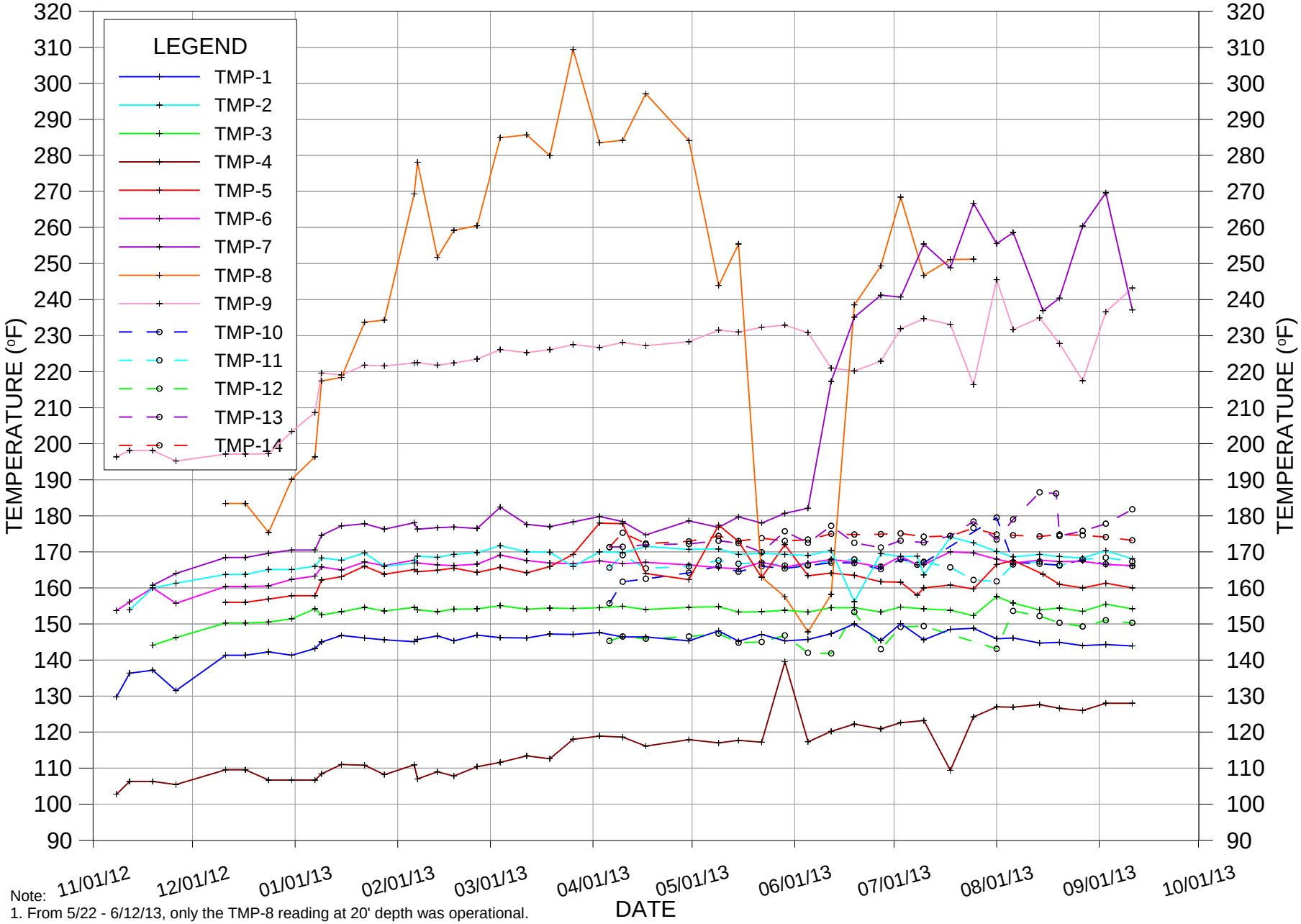
TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

9/11/2013 - ELEVATION



TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

MAXIMUM TEMPERATURES

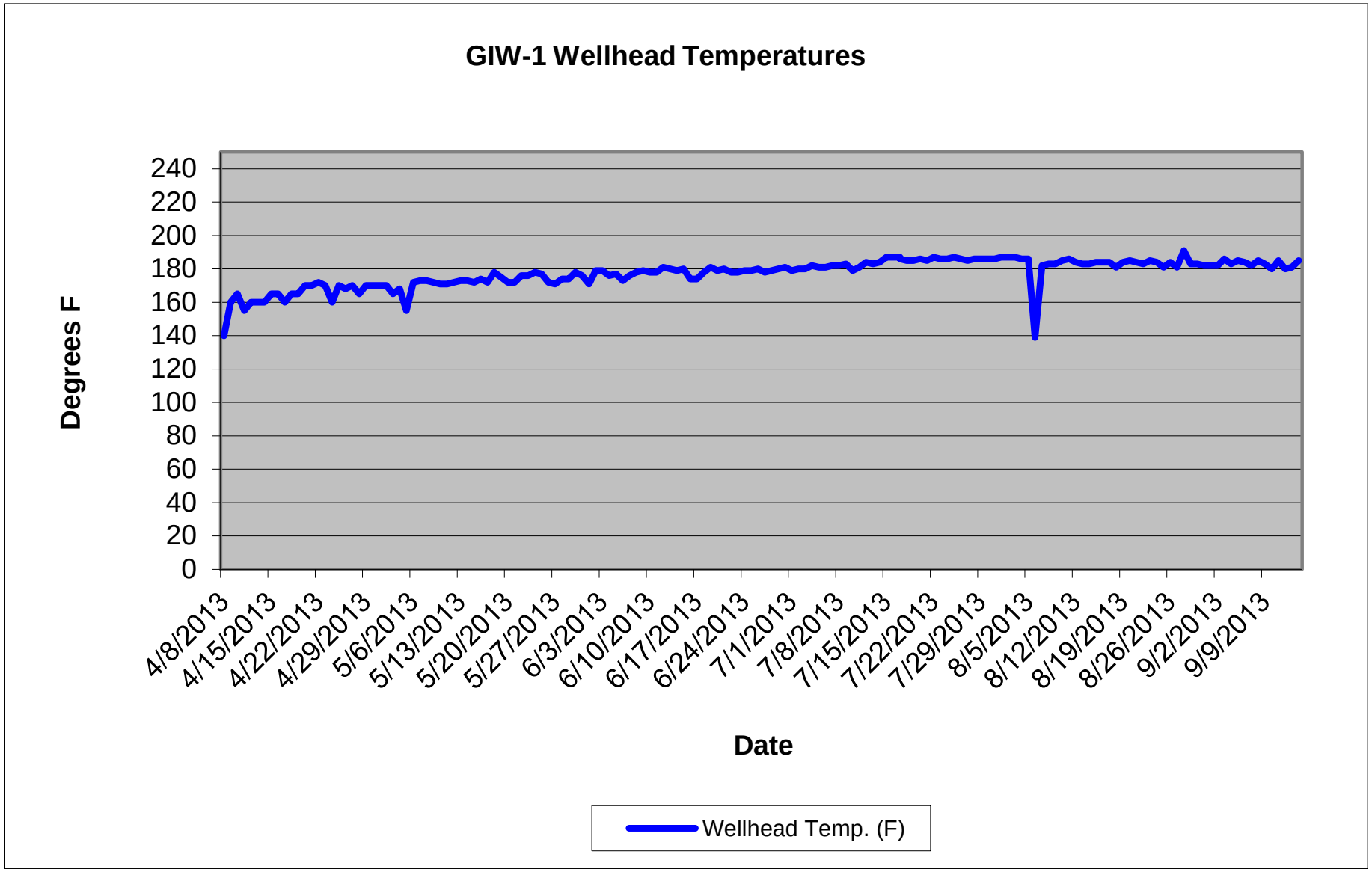


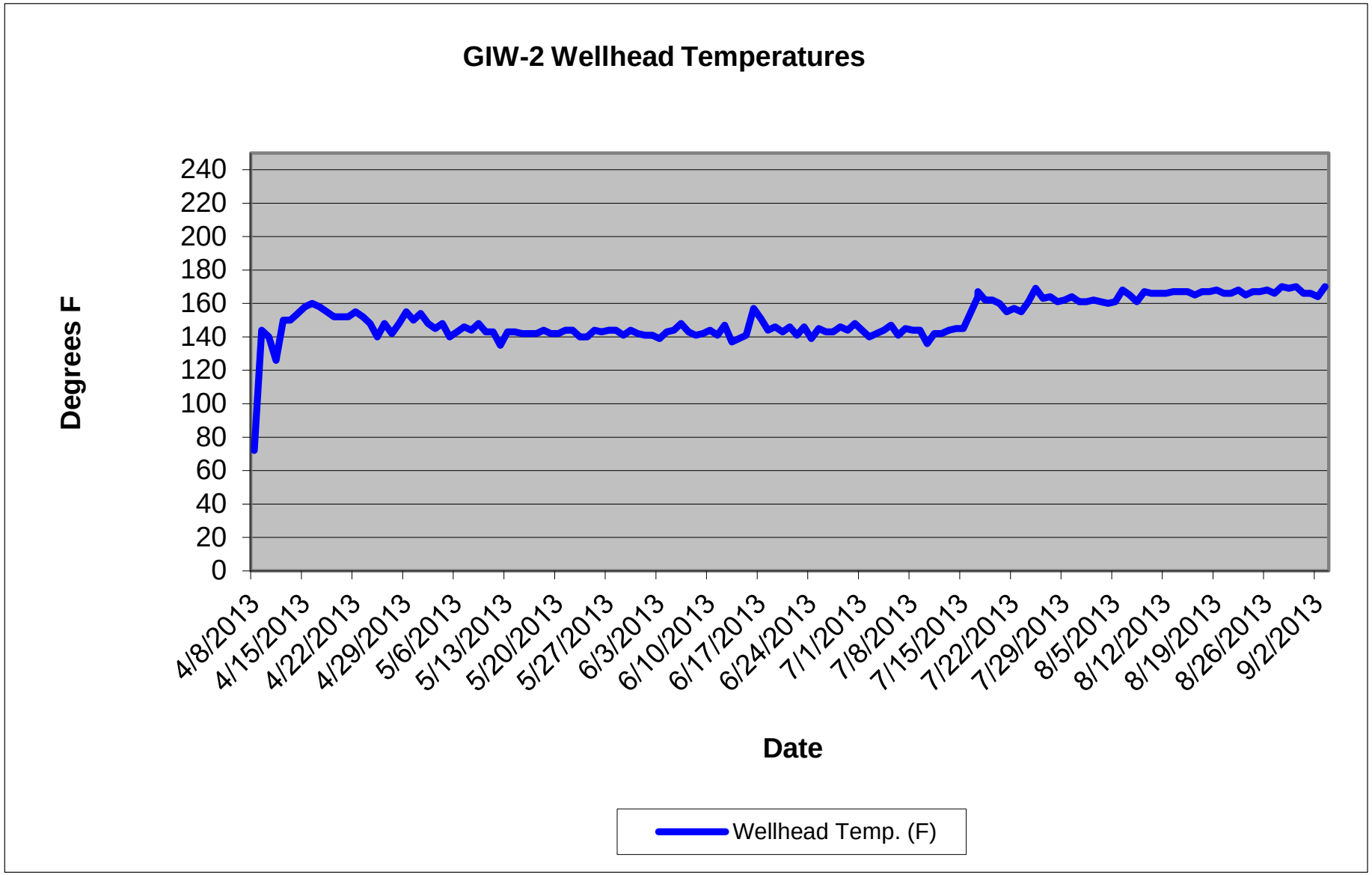
Note:
1. From 5/22 - 6/12/13, only the TMP-8 reading at 20' depth was operational.
   No valid readings were obtained for TMP-8 since 8/1/2013.
2. A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more vaild readings.
3. No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013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

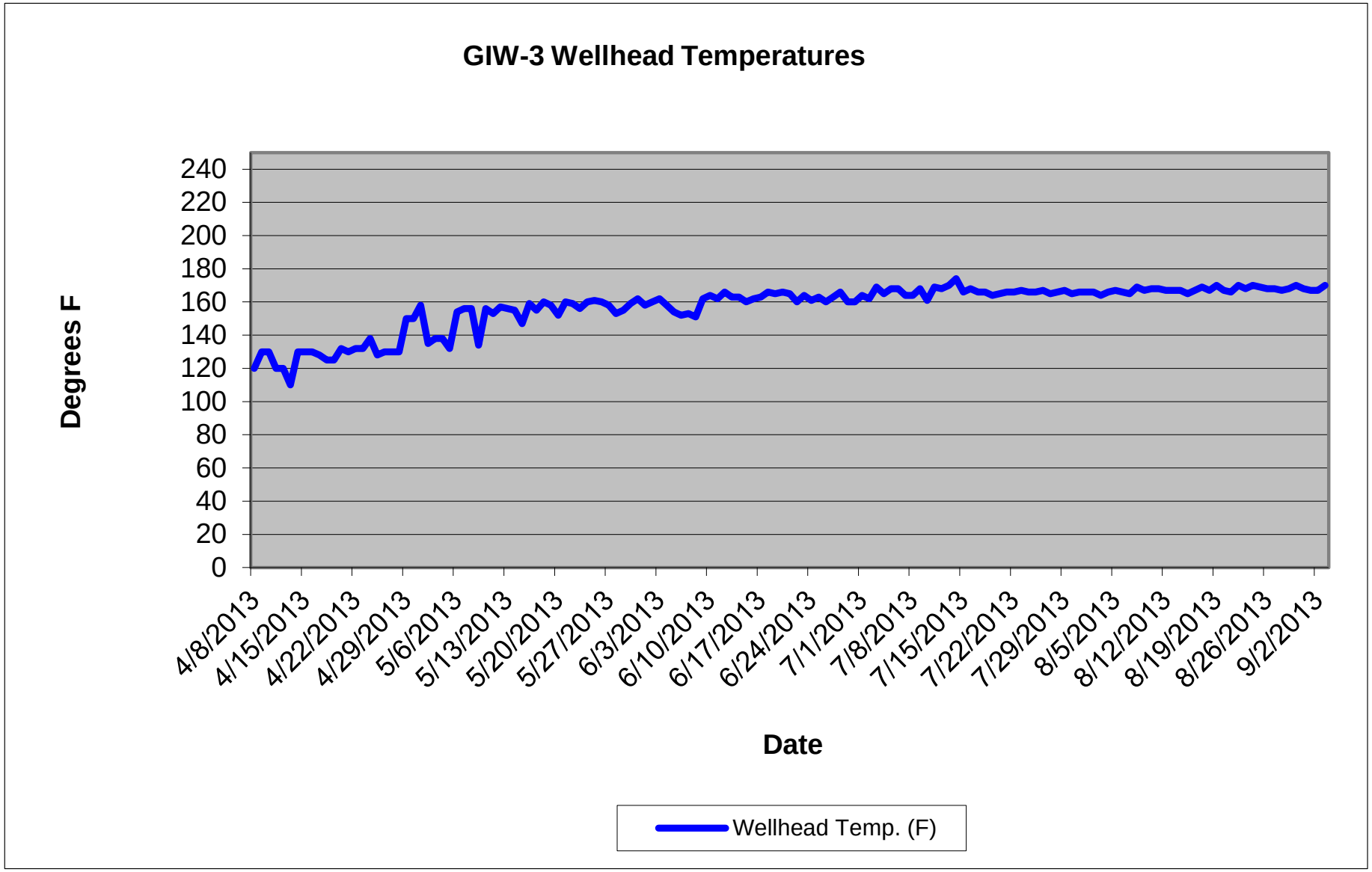
TEMPERATURE VS TIME
BRIDGETON LANDFILL

ATTACHMENT C

GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS


GIW-1 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
Date
Wellhead Temp. (F)


GIW-2 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-3 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
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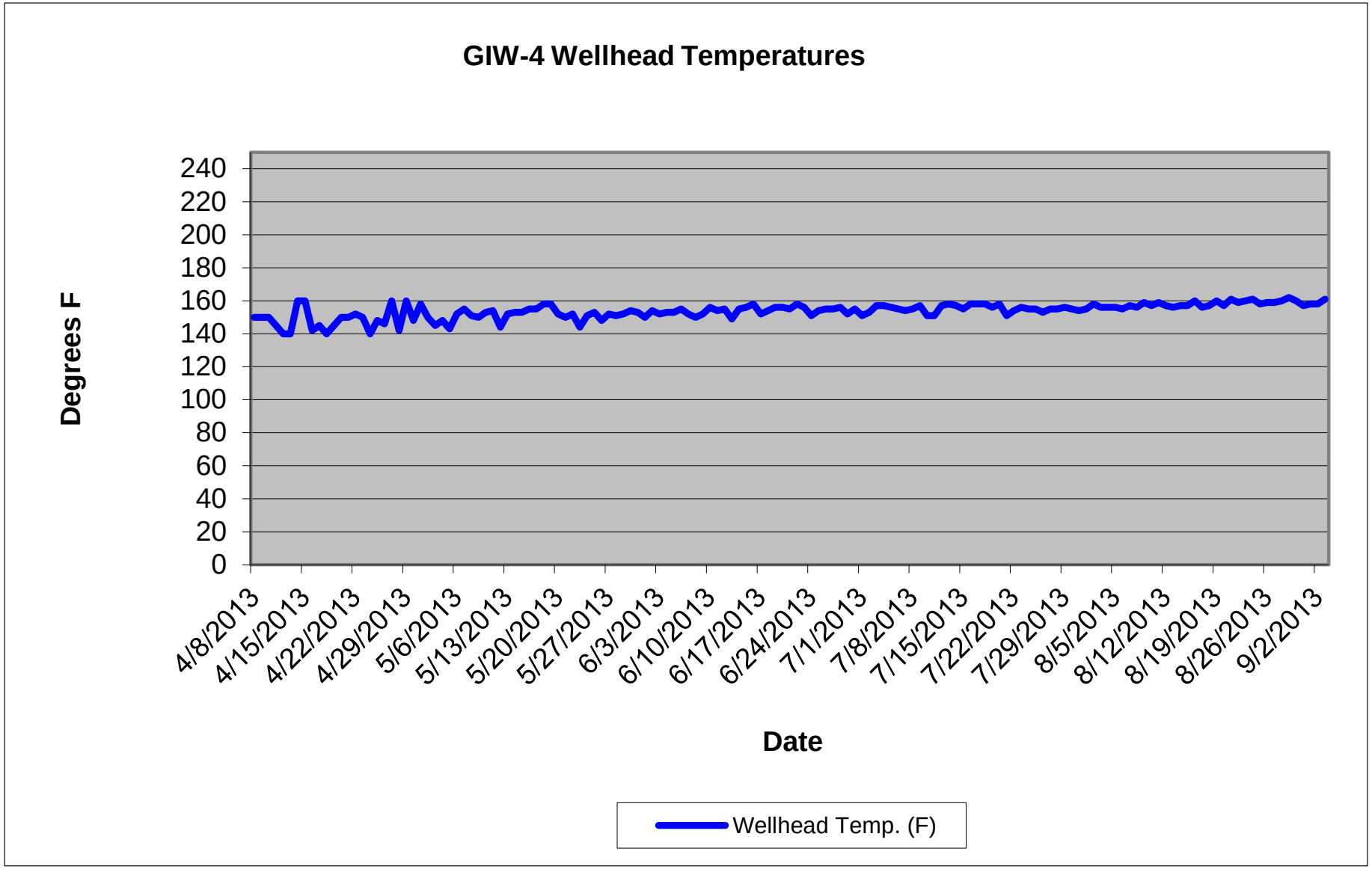
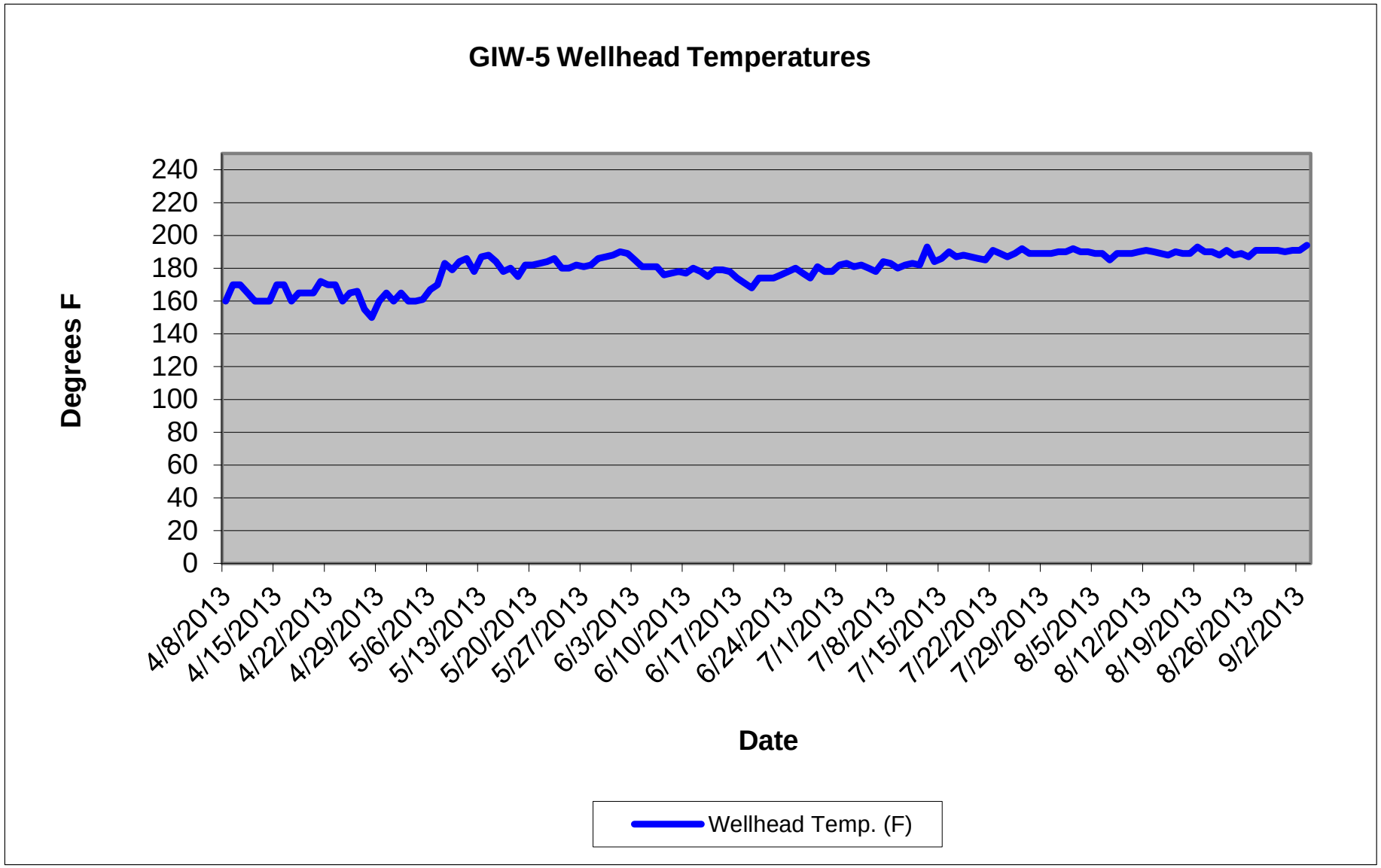
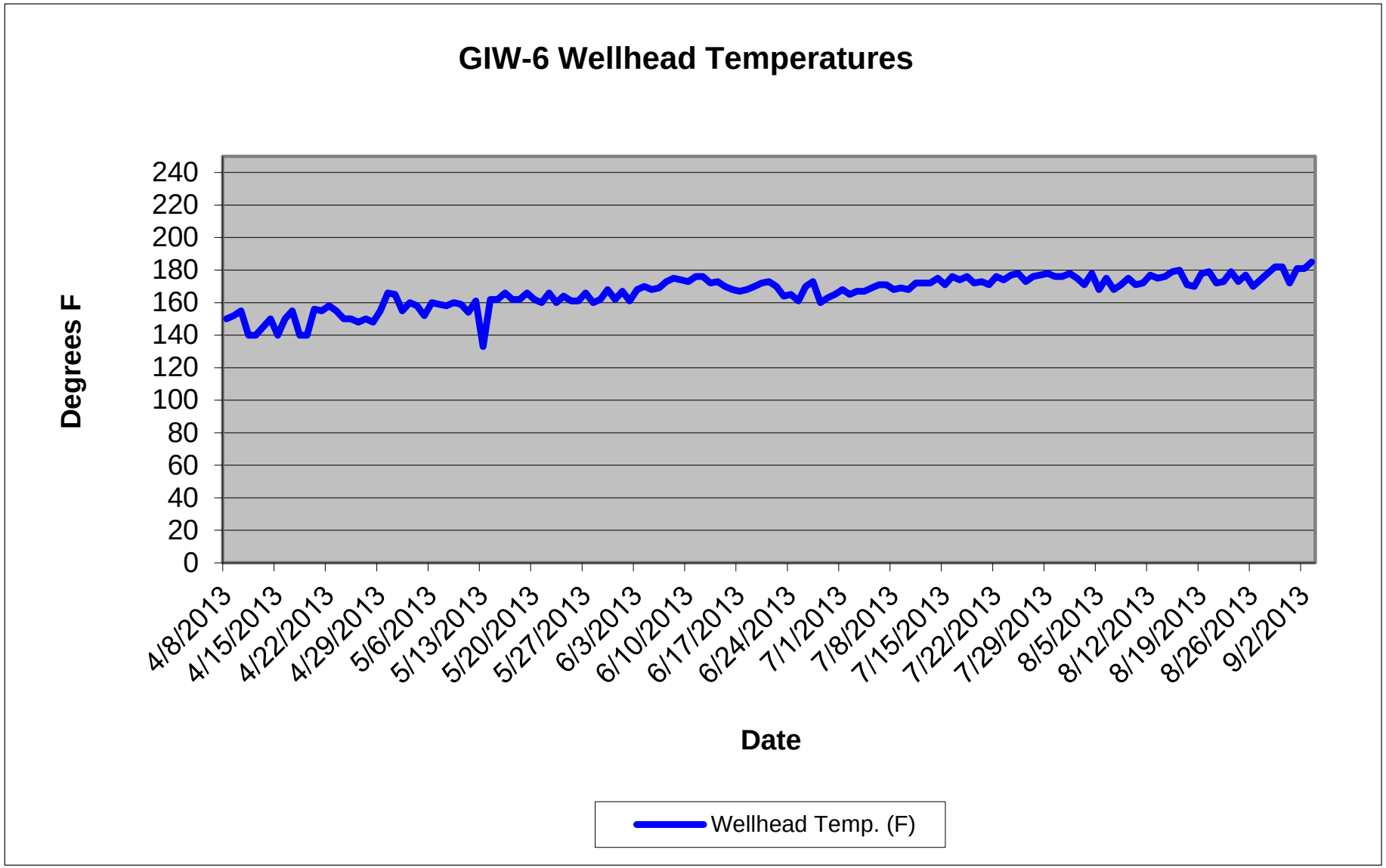
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-4 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-5 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-6 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
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7/8/2013
7/15/2013
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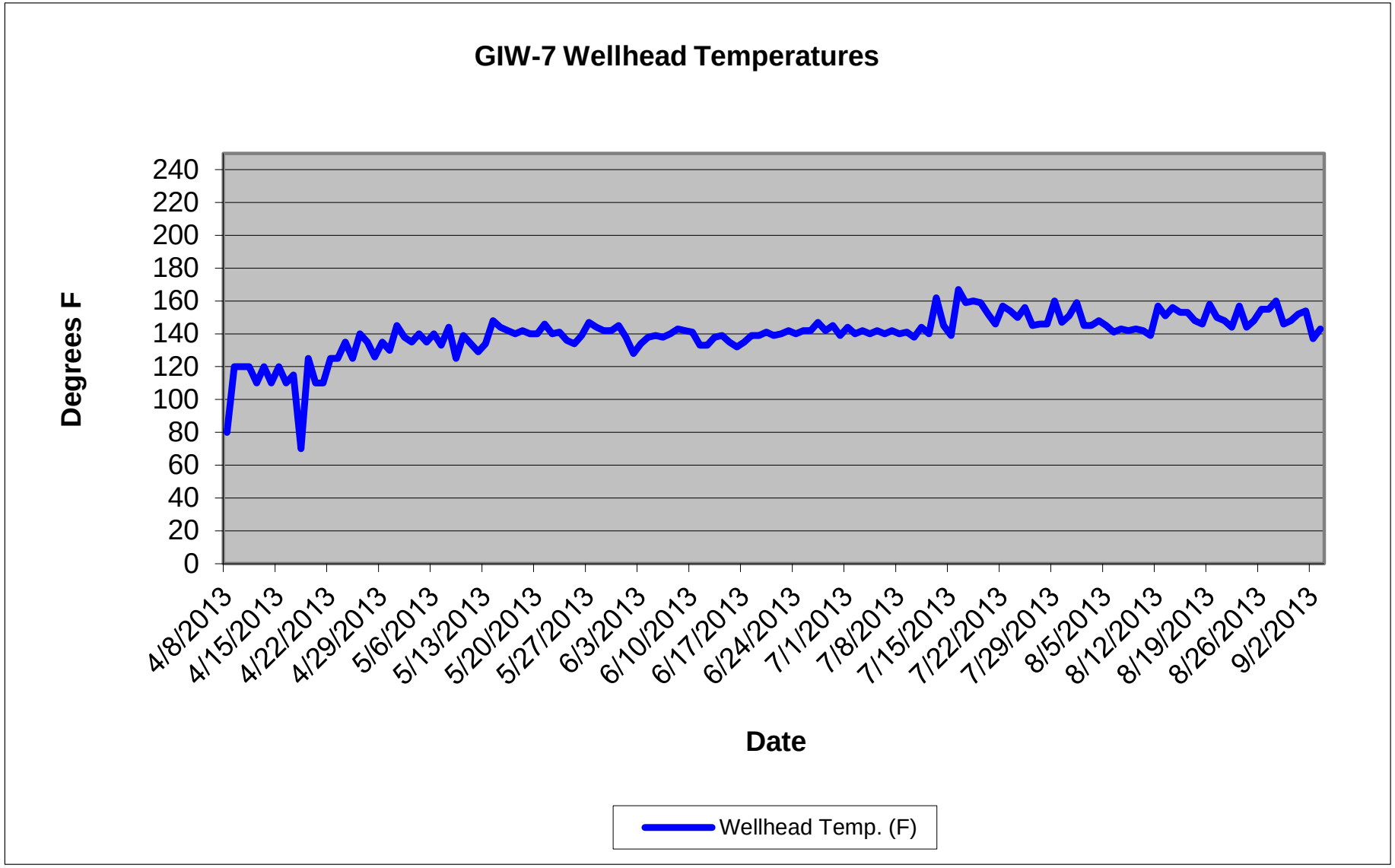
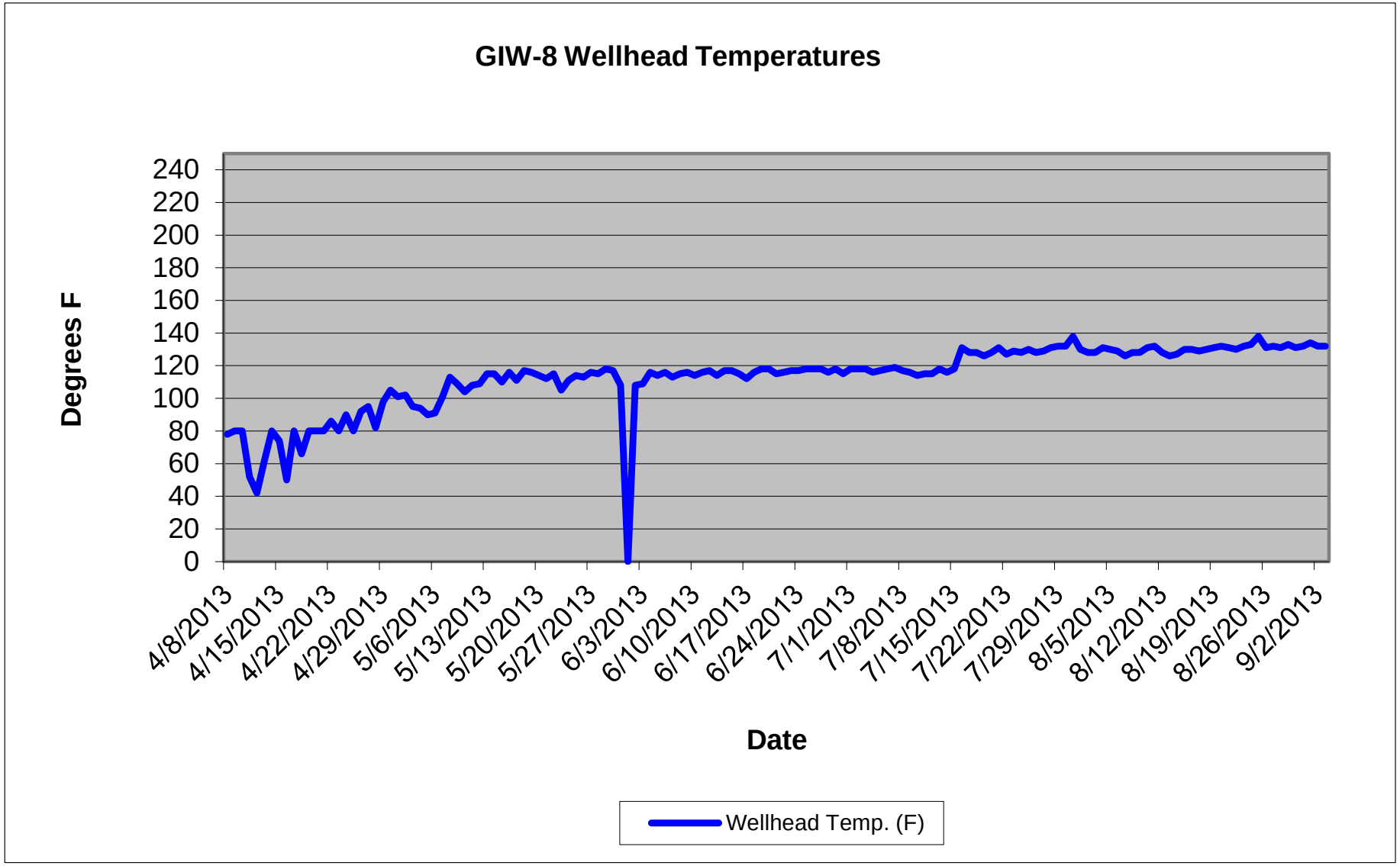
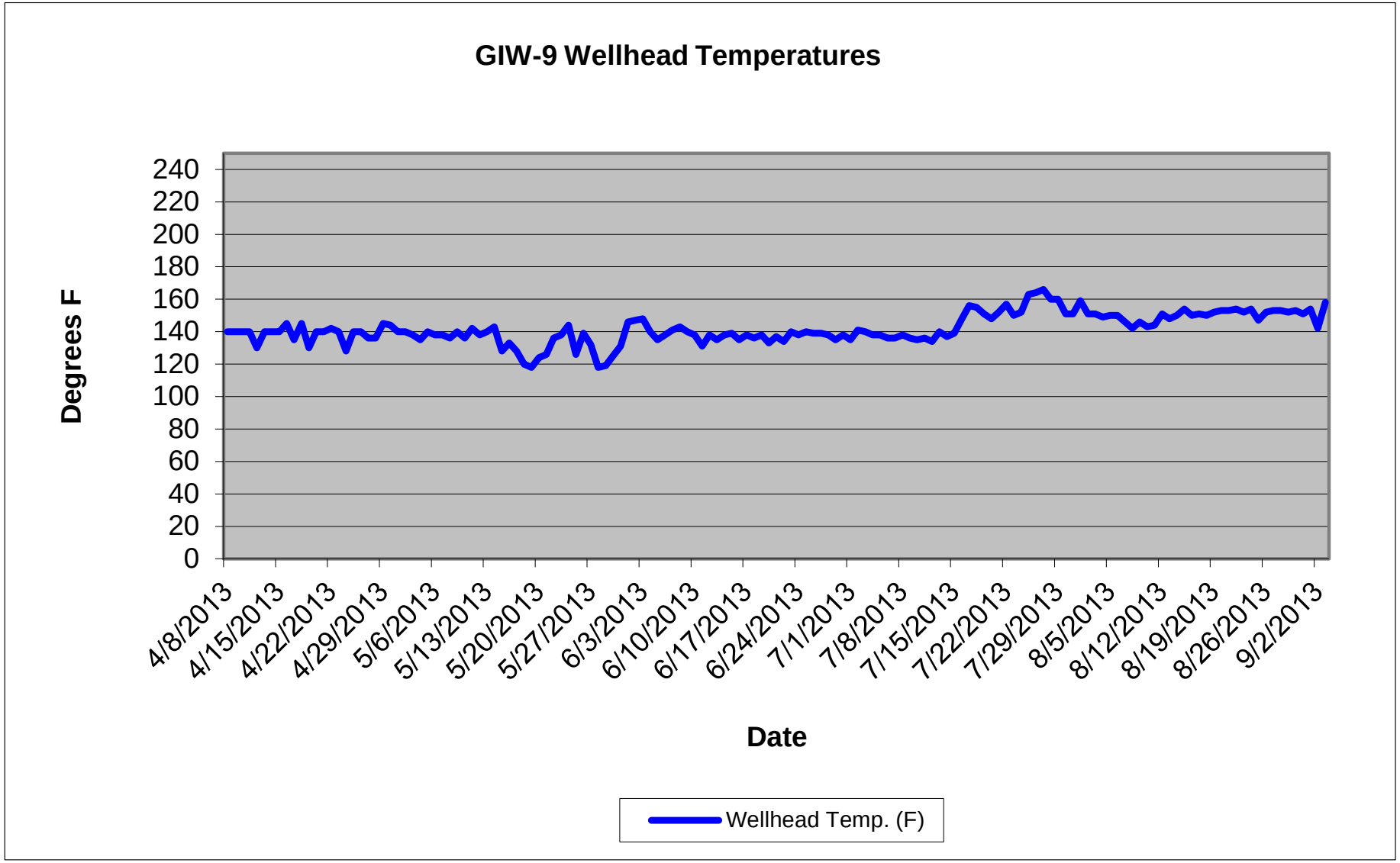
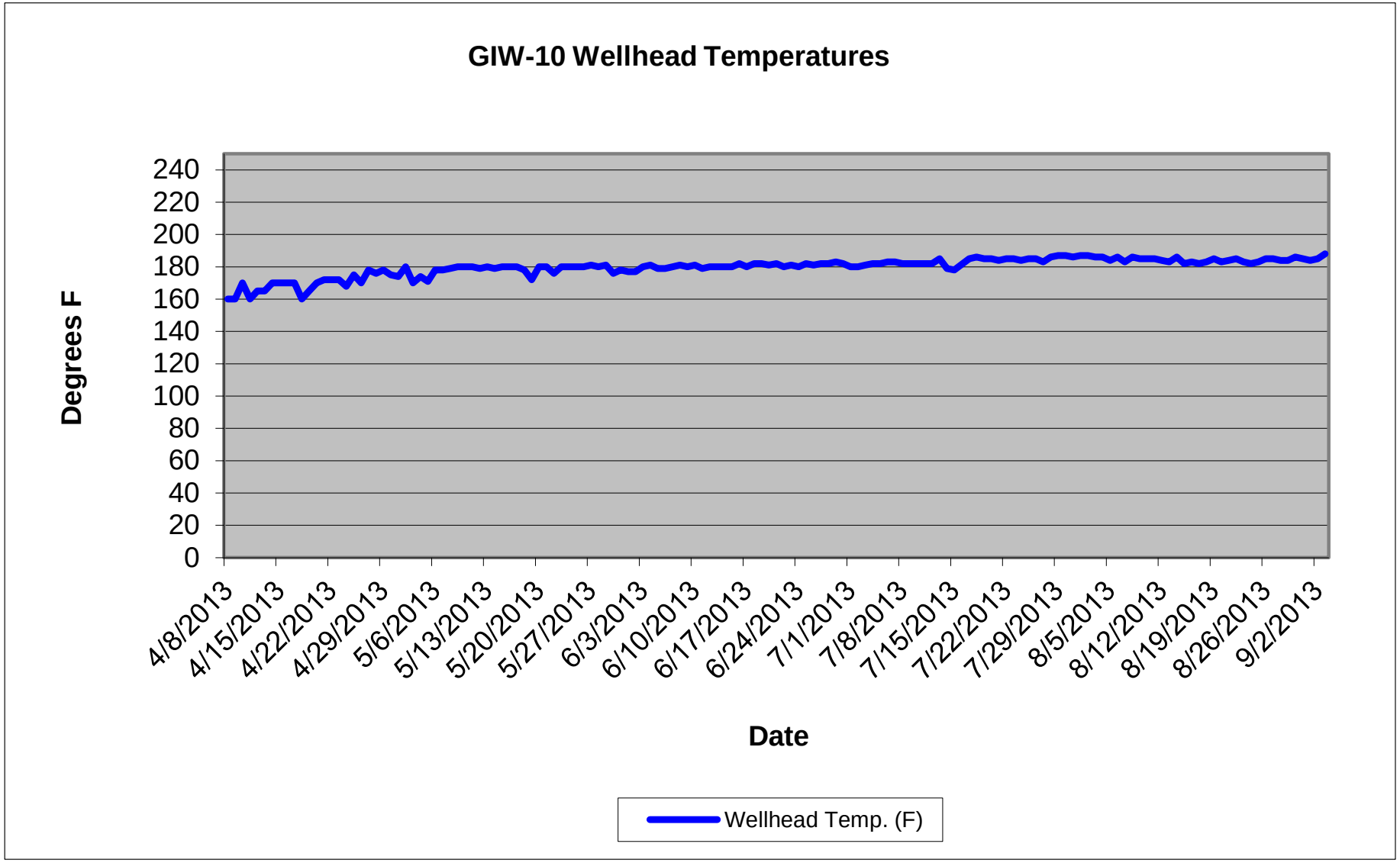
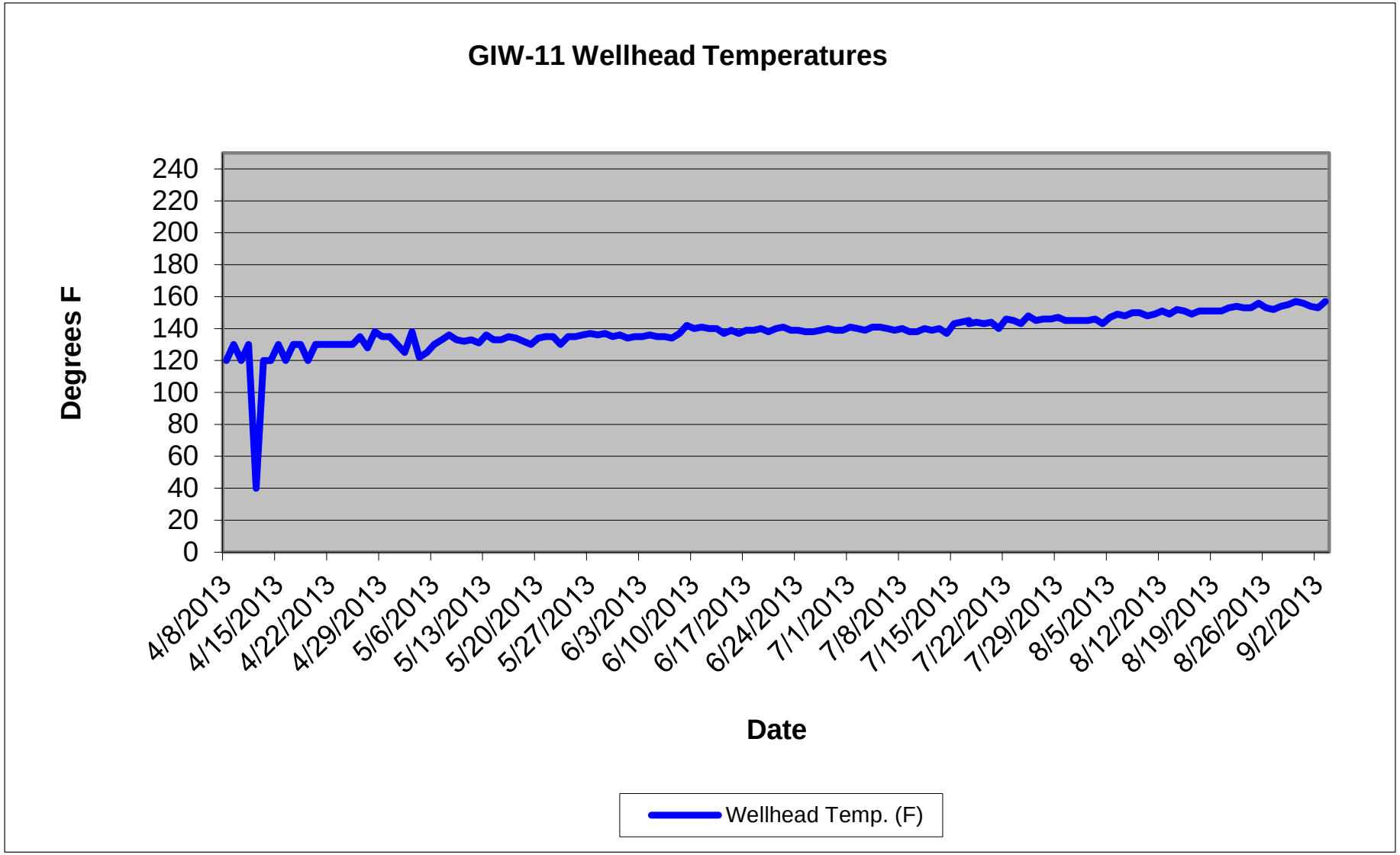
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)

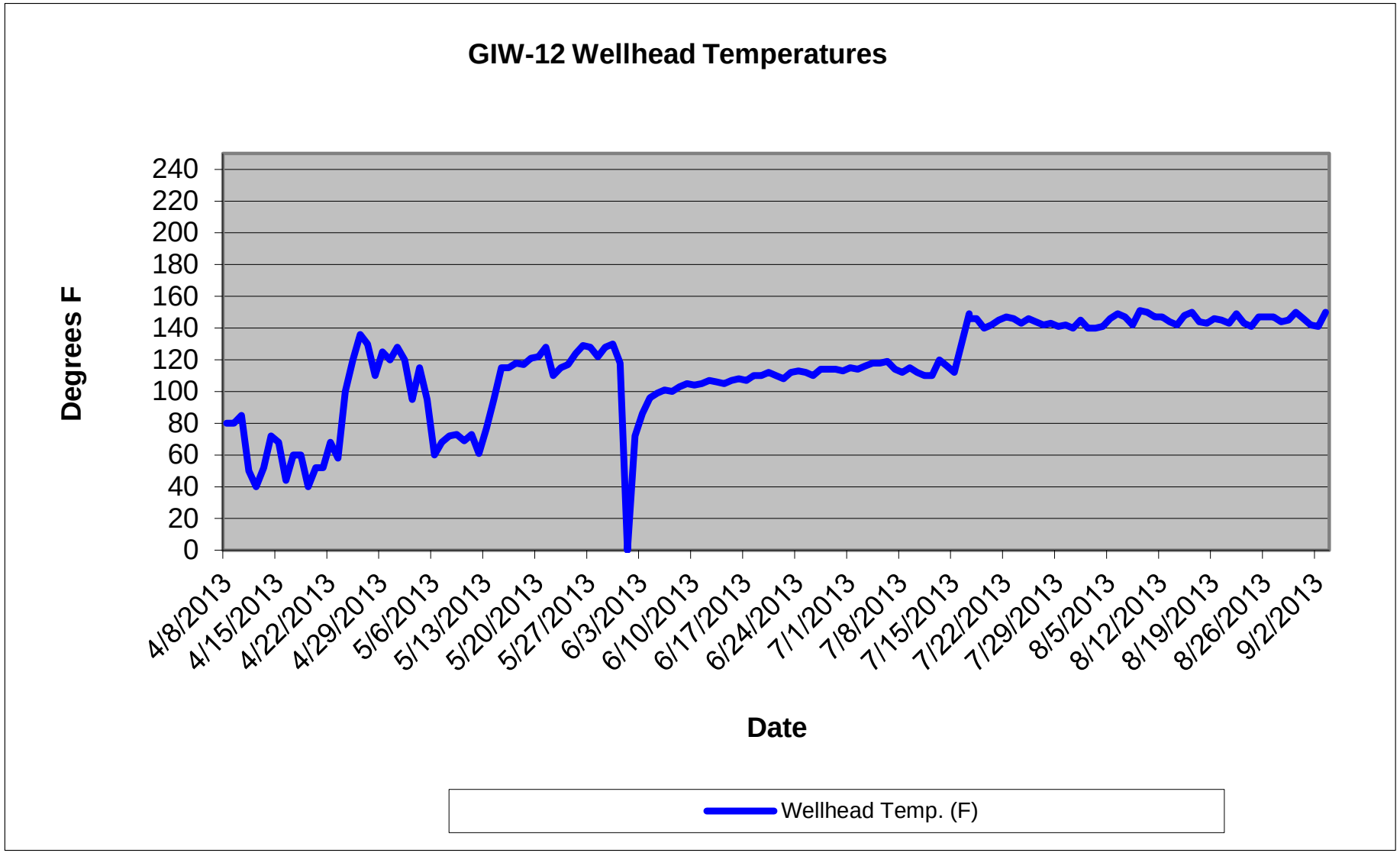

GIW-7 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)

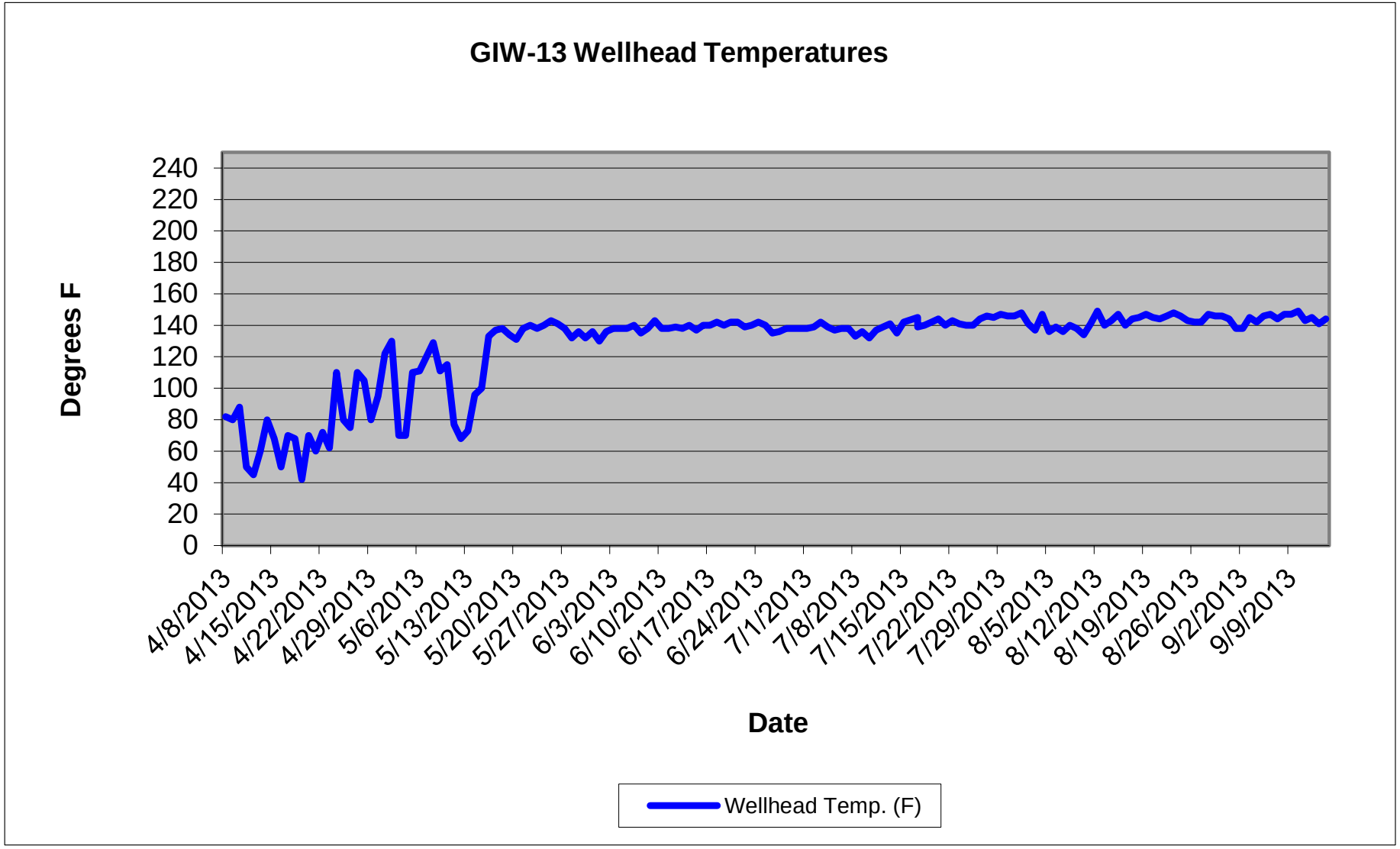

GIW-8 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-9 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-10 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-11 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-12 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
Date
Wellhead Temp. (F)


GIW-13 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
4/8/2013
4/15/2013
4/22/2013
4/29/2013
5/6/2013
5/13/2013
5/20/2013
5/27/2013
6/3/2013
6/10/2013
6/17/2013
6/24/2013
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
Date
Wellhead Temp. (F)

ATTACHMENT D

GAS WELL GEW-54 WELLHEAD TEMPERATURE

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

Date	Time	Temperature Reading
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