



# WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY COMPLIANCE SUMMARY REPORT



Date 12/8/22

Wheel Plant Wheelabrator North Andover  
Unit 1 Unit 1  
Outlet Source Outlet

| Date      | Hour | On-Line Minutes | O2            |        | NOx             |        | SO2             |        |                |        | CO      |        |                 | Carbon Feed |            | FF Temp (deg F) |             | Steam KLbs/Hr |           |            |           |            |
|-----------|------|-----------------|---------------|--------|-----------------|--------|-----------------|--------|----------------|--------|---------|--------|-----------------|-------------|------------|-----------------|-------------|---------------|-----------|------------|-----------|------------|
|           |      |                 | Out Vol % Dry | Status | Outlet ppm 7%O2 | Status | Outlet ppm 7%O2 | Status | Inlet ppm 7%O2 | Status | Removal | Status | Outlet ppm 7%O2 | Status      | 4 Hr Block | Status          | Lbs/Hr Avg. | 8 Hr Block    | 1 Hr Avg. | 4 Hr Block | 1 Hr Avg. | 4 Hr Block |
| 12/8/2022 | 0    | 0               | 21.0          | IF     | 51              | IF     | 8               | IF     | -301           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 75            |           | 0.0        |           |            |
| 12/8/2022 | 1    | 0               | 21.0          | IF     | 49              | IF     | 8               | IF     | -307           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 74            |           | 0.0        |           |            |
| 12/8/2022 | 2    | 0               | 21.0          | IF     | 46              | IF     | 8               | IF     | -330           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 72            |           | 0.0        |           |            |
| 12/8/2022 | 3    | 5               | 20.2          | ICF    | 42              | ICF    | 8               | ICF    | -359           | IBF    | 0       | IBCF   | 1               | ICF         | 0          | ICF             |             | 71            | 73        | 0.0        | 0.0       |            |
| 12/8/2022 | 4    | 12              | 17.4          | IBCF   | 200             | IBCF   | 67              | IBCF   | -370           | IBF    | 0       | IBCF   | 549             | IBCF        |            | 0               |             | 71            |           | 0.0        |           |            |
| 12/8/2022 | 5    | 0               | 21.0          | IF     | 40              | IF     | 8               | IF     | 198            | IBCF   | 96      | IBCF   | 0               | IF          |            | 0               |             | 70            |           | 0.0        |           |            |
| 12/8/2022 | 6    | 0               | 21.0          | IF     | 39              | IF     | 8               | IF     | -379           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 70            |           | 0.0        |           |            |
| 12/8/2022 | 7    | 0               | 21.0          | IF     | 41              | IF     | 8               | IF     | -444           | IBF    | 0       | IBF    | 0               | IF          | 137        | IBCF            | 0           | 0             | 81        | 73         | 0.0       | 0.0        |
| 12/8/2022 | 8    | 0               | 21.0          | IF     | 38              | IF     | 8               | IF     | -501           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 84            |           | 0.0        |           |            |
| 12/8/2022 | 9    | 0               | 21.0          | IF     | 34              | IF     | 9               | IF     | -571           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 79            |           | 0.0        |           |            |
| 12/8/2022 | 10   | 0               | 21.0          | IF     | 31              | IF     | 9               | IF     | -628           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 74            |           | 0.0        |           |            |
| 12/8/2022 | 11   | 0               | 21.0          | IF     | 30              | IF     | 9               | IF     | -691           | IBF    | 0       | IBF    | 0               | IF          | 0          | IF              |             | 71            | 77        | 0.0        | 0.0       |            |
| 12/8/2022 | 12   | 0               | 21.0          | IF     | 29              | IF     | 8               | IF     | -722           | IBF    | 0       | IBF    | 0               | IF          |            | 1               |             | 70            |           | 0.0        |           |            |
| 12/8/2022 | 13   | 0               | 21.0          | IF     | 28              | IF     | 9               | IF     | -767           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 69            |           | 0.0        |           |            |
| 12/8/2022 | 14   | 0               | 20.9          | IF     | 27              | IF     | 9               | IF     | -769           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 68            |           | 0.0        |           |            |
| 12/8/2022 | 15   | 0               | 21.0          | IF     | 26              | IF     | 8               | IF     | -719           | IBF    | 0       | IBF    | 0               | IF          | 0          | IF              | 0           | 0             | 67        | 68         | 0.0       | 0.0        |
| 12/8/2022 | 16   | 0               | 21.0          | IF     | 25              | IF     | 8               | IF     | -660           | IBF    | 0       | IBF    | 0               | IF          |            | 1               |             | 66            |           | 0.0        |           |            |
| 12/8/2022 | 17   | 0               | 21.0          | IF     | 24              | IF     | 8               | IF     | -634           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 65            |           | 0.0        |           |            |
| 12/8/2022 | 18   | 0               | 21.0          | IF     | 23              | IF     | 8               | IF     | -642           | IBF    | 0       | IBF    | 0               | IF          |            | 0               |             | 64            |           | 0.0        |           |            |
| 12/8/2022 | 19   | 0               | 21.0          | IF     | 22              | IF     | 8               | IF     | -618           | IBF    | 0       | IBF    | 0               | IF          | 0          | IF              | 1           | 63            | 64        | 0.0        | 0.0       |            |
| 12/8/2022 | 20   | 0               | 21.0          | IF     | 22              | IF     | 8               | IF     | -514           | IBF    | 0       | IBF    | 0               | IF          |            | 2               |             | 62            |           | 0.0        |           |            |
| 12/8/2022 | 21   | 0               | 20.9          | IF     | 22              | IF     | 8               | IF     | -462           | IBF    | 0       | IBF    | 0               | IF          |            | 1               |             | 62            |           | 0.0        |           |            |
| 12/8/2022 | 22   | 0               | 20.9          | IF     | 22              | IF     | 9               | IF     | -426           | IBF    | 0       | IBF    | 0               | IF          |            | 2               |             | 61            |           | 0.0        |           |            |
| 12/8/2022 | 23   | 0               | 20.9          | IF     | 21              | IF     | 9               | IF     | -438           | IBF    | 0       | IBF    | 0               | IF          | 0          | IF              | 3           | 1             | 61        | 62         | 0.0       | 0.0        |

Average:  
Geometric Mean Average:

Limit:

|                                    |
|------------------------------------|
| 39 IBCF                            |
| 9 IBCF                             |
| ≤ 205<br>24-HR<br>Block Avg.       |
| ≤ 29<br>24-HR<br>Geometric<br>Mean |

OR

|                                |
|--------------------------------|
| 0 IBCF                         |
| ≥ 75%<br>Removal<br>Efficiency |

|                                       |
|---------------------------------------|
| see<br>above                          |
| ≤ 69 ppmc<br>4-HR<br>Block<br>Average |

|   |
|---|
| see<br>above                            |
| ≥ 12 lb/hr<br>8-HR.<br>Block<br>Average |

|                                      |
|--------------------------------------|
| see<br>above                         |
| ≤ 345 °F<br>4-HR<br>Block<br>Average |

|  |
|--|
| see<br>above                             |
| ≤ 173 klb/hr<br>4-HR<br>Block<br>Average |

**Status Flags**

- I - Invalid
- B - Bad
- C - Calibration
- M - Maintenance
- F - Offline
- P - Purge
- T - Out of Control
- E - Excluded
- ^ - Startup
- \* - Shutdown



# WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY COMPLIANCE SUMMARY REPORT



Date 12/8/22

Wheel Plant Wheelabrator North Andover  
Unit 2 Unit Unit 1  
Outlet Source Outlet

| Date      | Hour | On-Line Minutes | O2            |        | NOx             |        | SO2             |        |                |        |         | CO     |                 |        | Carbon Feed |        | FF Temp (deg F) |            | Steam KLbs/Hr |            |           |
|-----------|------|-----------------|---------------|--------|-----------------|--------|-----------------|--------|----------------|--------|---------|--------|-----------------|--------|-------------|--------|-----------------|------------|---------------|------------|-----------|
|           |      |                 | Out Vol % Dry | Status | Outlet ppm 7%O2 | Status | Outlet ppm 7%O2 | Status | Inlet ppm 7%O2 | Status | Removal | Status | Outlet ppm 7%O2 | Status | 4 Hr Block  | Status | Lbs/Hr Avg.     | 8 Hr Block | 1 Hr Avg.     | 4 Hr Block | 1 Hr Avg. |
| 12/8/2022 | 0    | 60              | 10.2          |        | 194             |        | 25              |        | 27             |        | 8       |        | 1               |        |             | 14     |                 | 310        |               | 165.8      |           |
| 12/8/2022 | 1    | 60              | 10.1          |        | 184             |        | 21              |        | 27             |        | 25      |        | 2               |        |             | 14     |                 | 310        |               | 166.5      |           |
| 12/8/2022 | 2    | 60              | 10.1          |        | 194             |        | 16              |        | 16             |        | 4       |        | 2               |        |             | 14     |                 | 310        |               | 166.2      |           |
| 12/8/2022 | 3    | 60              | 10.1          |        | 185             |        | 22              |        | 20             |        | 0       |        | 2               | 2      |             | 16     |                 | 310        | 310           | 166.2      | 166.2     |
| 12/8/2022 | 4    | 60              | 10.2          |        | 192             |        | 18              |        | 18             |        | 0       |        | 3               |        |             | 13     |                 | 310        |               | 167.0      |           |
| 12/8/2022 | 5    | 60              | 10.2          |        | 194             |        | 19              |        | 19             |        | 0       |        | 2               |        |             | 14     |                 | 310        |               | 167.0      |           |
| 12/8/2022 | 6    | 60              | 10.2          |        | 189             |        | 15              |        | 11             |        | 0       |        | 2               |        |             | 14     |                 | 310        |               | 165.8      |           |
| 12/8/2022 | 7    | 60              | 10.1          |        | 187             |        | 13              |        | 11             |        | 0       |        | 3               | 2      |             | 14     | 14              | 310        | 310           | 166.0      | 166.4     |
| 12/8/2022 | 8    | 60              | 10.4          |        | 183             |        | 16              |        | 13             |        | 0       |        | 3               |        |             | 14     |                 | 310        |               | 166.6      |           |
| 12/8/2022 | 9    | 60              | 10.7          |        | 164             |        | 25              |        | 22             |        | 0       |        | 2               |        |             | 14     |                 | 310        |               | 167.1      |           |
| 12/8/2022 | 10   | 60              | 10.7          |        | 171             |        | 17              |        | 10             |        | 0       |        | 3               |        |             | 13     |                 | 310        |               | 167.0      |           |
| 12/8/2022 | 11   | 60              | 10.7          |        | 193             |        | 18              |        | 14             |        | 0       |        | 2               | 2      |             | 14     |                 | 310        | 310           | 166.9      | 166.9     |
| 12/8/2022 | 12   | 60              | 10.4          |        | 184             |        | 8               |        | 8              |        | 2       |        | 2               |        |             | 14     |                 | 310        |               | 165.3      |           |
| 12/8/2022 | 13   | 60              | 10.2          |        | 188             |        | 7               |        | 10             |        | 27      |        | 3               |        |             | 14     |                 | 310        |               | 165.9      |           |
| 12/8/2022 | 14   | 60              | 10.1          |        | 178             |        | 9               |        | 12             |        | 23      |        | 2               |        |             | 13     |                 | 310        |               | 166.0      |           |
| 12/8/2022 | 15   | 60              | 10.1          |        | 188             |        | 3               |        | 3              |        | 7       |        | 3               | 2      |             | 14     | 14              | 321        | 313           | 165.8      | 165.8     |
| 12/8/2022 | 16   | 60              | 10.3          |        | 194             |        | 1               |        | 2              |        | 27      |        | 1               |        |             | 14     |                 | 310        |               | 166.6      |           |
| 12/8/2022 | 17   | 60              | 10.5          |        | 173             |        | 2               |        | 3              |        | 17      |        | 1               |        |             | 14     |                 | 310        |               | 167.3      |           |
| 12/8/2022 | 18   | 60              | 10.3          |        | 191             |        | 3               |        | 4              |        | 27      |        | 2               |        |             | 13     |                 | 311        |               | 166.2      |           |
| 12/8/2022 | 19   | 60              | 10.4          |        | 191             |        | 3               |        | 1              |        | 0       |        | 2               | 2      |             | 14     |                 | 310        | 310           | 165.7      | 166.4     |
| 12/8/2022 | 20   | 60              | 10.3          |        | 184             |        | 4               |        | 1              |        | 0       |        | 3               |        |             | 14     |                 | 310        |               | 167.2      |           |
| 12/8/2022 | 21   | 60              | 10.2          |        | 188             |        | 6               |        | 3              |        | 0       |        | 3               |        |             | 13     |                 | 310        |               | 166.5      |           |
| 12/8/2022 | 22   | 60              | 10.4          |        | 195             |        | 6               |        | 3              |        | 0       |        | 2               |        |             | 14     |                 | 310        |               | 166.7      |           |
| 12/8/2022 | 23   | 60              | 10.2          |        | 190             |        | 8               |        | 4              |        | 0       |        | 3               | 3      |             | 14     | 14              | 310        | 310           | 165.5      | 166.5     |

|                                     |                           |                              |           |                             |                                 |                                   |                                |                                    |
|-------------------------------------|---------------------------|------------------------------|-----------|-----------------------------|---------------------------------|-----------------------------------|--------------------------------|------------------------------------|
| Average:<br>Geometric Mean Average: | 187                       | 9                            | <b>OR</b> | 0                           | see above                       | see above                         | see above                      | see above                          |
| Limit:                              | ≤ 205<br>24-HR Block Avg. | ≤ 29<br>24-HR Geometric Mean |           | ≥ 75%<br>Removal Efficiency | ≤ 69 ppmc<br>4-HR Block Average | ≥ 12 lb/hr<br>8-HR. Block Average | ≤ 345 °F<br>4-HR Block Average | ≤ 173 klb/hr<br>4-HR Block Average |

**Status Flags**

- I - Invalid
- B - Bad
- C - Calibration
- M - Maintenance
- F - Offline
- P - Purge
- T - Out of Control
- E - Excluded
- ^ - Startup
- \* - Shutdown



# WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 08-Dec-2022

Plant Wheelabrator North Andover  
Unit Unit 1  
Source Outlet

Opacity is a measure of how much soot or smoke may be contained in stack emissions. The more smoke that is contained in the emissions the higher the level of opacity. Continuous opacity monitors located after all of the air pollution control equipment measure the opacity of the emissions from each boiler. Typically the human eye can not detect or see smoke that is less than 5% opacity. You won't see smoke from a modern trash-to-energy plant although in colder weather you will see water vapor condensation, similar to seeing your breath on a cold day. This is not considered opacity. We have a permit limit established by the Massachusetts Department of Environmental Protection of 10% opacity averaged every six (6) minutes.

Limit 10 %

| Time (hr) | 1-6 min |     | 7-12 min |     | 13-18 min |    | 19-24 min |    | 25-30 min |    | 31-36 min |    | 37-42 min |    | 43-48 min |    | 49-54 min |    | 55-60 min |    | Average |
|-----------|---------|-----|----------|-----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|---------|
| 0         | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 1         | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 2         | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 3         | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 4         | 1       |     | 1        |     | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 5         | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 6         | 2       | ICF | 23       | ICF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 4       |
| 7         | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 8         | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 9         | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 10        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 11        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 12        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 13        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 14        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 15        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 16        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 17        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 18        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 19        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 20        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 21        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 22        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |
| 23        | 1       | IF  | 1        | IF  | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1         | IF | 1       |

**Status Flags**

I - Invalid                      C - Calibration                      F - Offline                      T - Out of Control                      ^ - Startup  
 B - Bad                            M - Maintenance                      P - Purge                      E - Excluded                      \* - Shutdown



# WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 08-Dec-2022

Plant Wheelabrator North Andover  
Unit Unit 2  
Source Outlet

Opacity is a measure of how much soot or smoke may be contained in stack emissions. The more smoke that is contained in the emissions the higher the level of opacity. Continuous opacity monitors located after all of the air pollution control equipment measure the opacity of the emissions from each boiler. Typically the human eye can not detect or see smoke that is less than 5% opacity. You won't see smoke from a modern trash-to-energy plant although in colder weather you will see water vapor condensation, similar to seeing your breath on a cold day. This is not considered opacity. We have a permit limit established by the Massachusetts Department of Environmental Protection of 10% opacity averaged every six (6) minutes.

Limit 10 %

| Time (hr) | 1-6 min | 7-12 min | 13-18 min | 19-24 min | 25-30 min | 31-36 min | 37-42 min | 43-48 min | 49-54 min | 55-60 min | Average |
|-----------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| 0         | 2       | 1        | 1         | 1         | 2         | 2         | 1         | 1         | 2         | 2         | 1       |
| 1         | 1       | 1        | 2         | 2         | 2         | 1         | 1         | 1         | 1         | 1         | 1       |
| 2         | 1       | 1        | 2         | 2         | 2         | 2         | 1         | 1         | 2         | 2         | 1       |
| 3         | 2       | 2        | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2       |
| 4         | 2       | 2        | 1         | 1         | 2         | 2         | 2         | 2         | 1         | 2         | 1       |
| 5         | 2       | 2        | 2         | 1         | 1         | 1         | 1         | 1         | 2         | 1         | 1       |
| 6         | 2       | IBC      | 6         | IBC       | 1         | 1         | 2         | 1         | 2         | 2         | 2       |
| 7         | 1       | 1        | 1         | 1         | 1         | 2         | 2         | 2         | 2         | 2         | 1       |
| 8         | 2       | 1        | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2       |
| 9         | 2       | 2        | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2       |
| 10        | 1       | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1       |
| 11        | 1       | 1        | 1         | 1         | 2         | 1         | 1         | 1         | 1         | 1         | 1       |
| 12        | 1       | 1        | 1         | 1         | 1         | 1         | 1         | 2         | 1         | 1         | 1       |
| 13        | 1       | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 2         | 1         | 1       |
| 14        | 2       | 1        | 1         | 1         | 1         | 1         | 2         | 2         | 1         | 1         | 1       |
| 15        | 2       | 1        | 1         | 2         | 1         | 2         | 2         | 2         | 1         | 2         | 1       |
| 16        | 1       | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1       |
| 17        | 1       | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1       |
| 18        | 1       | 1        | 1         | 1         | 1         | 1         | 1         | 2         | 2         | 1         | 1       |
| 19        | 1       | 1        | 2         | 2         | 1         | 1         | 1         | 1         | 1         | 1         | 1       |
| 20        | 1       | 2        | 2         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1       |
| 21        | 1       | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1       |
| 22        | 2       | 1        | 1         | 1         | 1         | 1         | 2         | 1         | 1         | 1         | 1       |
| 23        | 1       | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1       |

**Status Flags**

I - Invalid                      C - Calibration                      F - Offline                      T - Out of Control                      ^ - Startup  
 B - Bad                            M - Maintenance                      P - Purge                            E - Excluded                            \* - Shutdown