

**Linearity Test Report**

**Gainesville Renewable Energy Center  
(GREC)  
20001 Northwest 13th St  
Gainesville, FL 32653**

**Facility ID: 57241  
Emission Unit ID: BFB1**

**Test Performed by: Charles Allan Dick, Trace Environmental Inc.**

# Linearity Test

| Gainesville Renewable Energy Center (GREC) |         |
|--|---------|
| Gainesville, Florida                       |         |
| Facility ID                                | Unit ID |
| 57241                                      | BFB1    |

Cycle 1

Test Date:

November 7, 2013

Start Time: 13:33:00

EndTime: 15:53:00

Seq Step

|    | Analyzer                | Time     | Level | Target | Actual  | Span | ABS Err | % CRM | Seconds |
|----|-------------------------|----------|-------|--------|---------|------|---------|-------|---------|
| 0  | HCL, Hydrogen Chloride  | 14:43:00 | Low   | 13.60  | 10.000  | 50   | 3.60    | 0.26  | 700     |
| 1  |                         | 14:56:00 | Mid   | 28.00  | 26.000  | 50   | 2.00    | 0.07  | 700     |
| 2  |                         | 15:07:00 | High  | 41.00  | 44.000  | 50   | 3.00    | 0.07  | 700     |
| 3  | SO2, Sulphur Dioxide    | 15:15:00 | Low   | 10.18  | 10.000  | 40   | 0.18    | 0.02  | 450     |
| 4  |                         | 15:22:00 | Mid   | 22.50  | 23.000  | 40   | 0.50    | 0.02  | 450     |
| 5  |                         | 15:29:00 | High  | 35.90  | 38.000  | 40   | 2.10    | 0.06  | 450     |
| 6  | CO, Carbon Monoxide     | 15:33:00 | Low   | 49.30  | 50.000  | 200  | 0.70    | 0.01  | 240     |
| 7  |                         | 15:37:00 | Mid   | 109.70 | 112.000 | 200  | 2.30    | 0.02  | 240     |
| 8  |                         | 15:41:00 | High  | 182.40 | 183.000 | 200  | 0.60    | 0.00  | 240     |
| 6  | NOx, Oxides of Nitrogen | 15:33:00 | Low   | 30.30  | 30.000  | 120  | 0.30    | 0.01  | 240     |
| 7  |                         | 15:37:00 | Mid   | 66.00  | 66.000  | 120  | 0.00    | 0.00  | 240     |
| 8  |                         | 15:41:00 | High  | 108.90 | 109.000 | 120  | 0.10    | 0.00  | 240     |
| 9  | O2 wet                  | 15:44:00 | Low   | 6.03   | 5.900   | 25   | 0.13    | 0.02  | 240     |
| 10 |                         | 15:49:00 | Mid   | 14.05  | 13.900  | 25   | 0.15    | 0.01  | 240     |
| 11 |                         | 15:53:00 | High  | 20.62  | 20.500  | 25   | 0.12    | 0.01  | 240     |
| 9  | O2 dry                  | 15:44:00 | Low   | 6.03   | 6.000   | 25   | 0.03    | 0.00  | 240     |
| 10 |                         | 15:49:00 | Mid   | 14.05  | 14.000  | 25   | 0.05    | 0.00  | 240     |
| 11 |                         | 15:53:00 | High  | 20.62  | 20.600  | 25   | 0.02    | 0.00  | 240     |

# Data Summary Report

Company: GREC Gainesville, FL  
10001 Northwest 13th St  
Gainesville, FL 32653



Environmental Systems, Inc.

Data Group: All Data Groups  
Report Name: Summary (Linearity)  
Start of Report: 11/07/2013 13:33  
End of Report: 11/07/2013 15:55

Cycle 1 Start 13:33

Validation: All Available Data

| Group#-Channel#  | G1-C6     | G1-C5     | G1-C4     | G1-C3    | G1-C1    | G1-C2    | G1-C13   | G1-C14   |
|------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Long Descrip.    | 1-Min HCL | 1-Min SO2 | 1-Min NOx | 1-Min CO | 1-Min O2 | 1-Min O2 | 1-Min O2 | Moisture |
| Short Descrip.   | HCL       | SO2       | NOx       | CO       | O2 Wet   | O2 Dry   | O2 Wet   | Moisture |
| Units            | ppm       | ppm       | ppm       | ppm      | %        | %        | %        |          |
| Range            | 0-50      | 0-40      | 0-120     | 0-200    | 0-25     | 0-25     | 0-25     | 0-100    |
| 11/07/2013 13:33 | 6.00      | 0.0D      | 0D        | 1D       | 3.3D     | 0.0D     | 3.4      | -10      |
| 11/07/2013 13:34 | 13.00     | 0.0D      | 0D        | 1D       | 3.2D     | 0.0D     | 3.4      | 110      |
| 11/07/2013 13:35 | 17.00     | 0.0D      | 0D        | 1D       | 3.2D     | 0.0D     | 3.3      | 110      |
| 11/07/2013 13:36 | 20.00     | 0.0D      | 0D        | 0D       | 3.2D     | 0.0D     | 3.3      | 110      |
| 11/07/2013 13:37 | 22.00     | 0.0D      | 0D        | 0D       | 3.2D     | 0.0D     | 3.3      | 110      |
| 11/07/2013 13:38 | 22.00     | 0.0D      | 0D        | 0D       | 3.2D     | 0.0D     | 3.3      | 110      |
| 11/07/2013 13:39 | 22.00     | 0.0D      | 0D        | 0D       | 3.2D     | 0.0D     | 3.3      | 110      |
| 11/07/2013 13:40 | 22.00     | 0.0D      | 0D        | 0D       | 2.1D     | 0.0D     | 2.2      | 110      |
| 11/07/2013 13:41 | 23.00     | 0.0D      | 50D       | 27D      | 2.3D     | 3.1D     | 2.4      | 22       |
| 11/07/2013 13:42 | 12.00     | 0.0D      | 63D       | 34D      | 2.4D     | 3.8D     | 2.6      | 35       |
| 11/07/2013 13:43 | 4.00      | 0.0D      | 63D       | 29D      | 2.3D     | 3.8D     | 2.4      | 40       |
| 11/07/2013 13:44 | 2.00      | 0.0D      | 63D       | 31D      | 2.2D     | 3.8D     | 2.3      | 43       |
| 11/07/2013 13:45 | 2.00      | 0.0D      | 62D       | 42D      | 1.8D     | 3.4D     | 1.9      | 47       |
| 11/07/2013 13:46 | 1.00      | 0.0D      | 63D       | 44D      | 1.8D     | 3.4D     | 1.9      | 47       |
| 11/07/2013 13:47 | 1.00      | 0.0D      | 63D       | 39D      | 1.9D     | 3.4D     | 2.0      | 46       |
| 11/07/2013 13:48 | 1.00      | 0.0D      | 62D       | 45D      | 2.1D     | 3.5D     | 2.2      | 41       |
| 11/07/2013 13:49 | 1.00      | 0.0D      | 63D       | 32D      | 2.2D     | 3.8D     | 2.4      | 42       |
| 11/07/2013 13:50 | 1.00      | 0.0D      | 63D       | 29D      | 2.3D     | 3.8D     | 2.4      | 41       |
| 11/07/2013 13:51 | 0.00      | 0.0D      | 63D       | 31D      | 2.2D     | 3.9D     | 2.3      | 45       |
| 11/07/2013 13:52 | 1.00      | 0.0D      | 63D       | 38D      | 2.1D     | 3.7D     | 2.2      | 44       |
| 11/07/2013 13:53 | 1.00      | 0.0D      | 63D       | 29D      | 2.1D     | 3.9D     | 2.2      | 45       |
| 11/07/2013 13:54 | 0.00      | 0.0D      | 62D       | 45D      | 1.7D     | 3.5D     | 1.8      | 51       |
| 11/07/2013 13:55 | 1.00      | 0.0D      | 62D       | 46D      | 2.1D     | 3.6D     | 2.2      | 42       |
| 11/07/2013 13:56 | 0.00      | 0.0D      | 63D       | 30D      | 2.1D     | 3.9D     | 2.3      | 45       |
| 11/07/2013 13:57 | 0.00      | 0.0D      | 62D       | 36D      | 2.0D     | 3.6D     | 2.1      | 46       |
| 11/07/2013 13:58 | 0.00      | 0.0D      | 62D       | 38D      | 2.0D     | 3.7D     | 2.1      | 46       |
| 11/07/2013 13:59 | 1.00      | 0.0D      | 63D       | 43D      | 2.0D     | 3.7D     | 2.1      | 47       |
| 11/07/2013 14:00 | 0.00      | 0.0D      | 62D       | 48D      | 1.8D     | 3.5D     | 1.9      | 48       |
| 11/07/2013 14:01 | 0.00      | 0.0D      | 63D       | 39D      | 2.0D     | 3.7D     | 2.1      | 47       |
| 11/07/2013 14:02 | 0.00      | 0.0D      | 63D       | 48D      | 2.0D     | 3.6D     | 2.2      | 44       |
| 11/07/2013 14:03 | 0.00      | 0.0D      | 63D       | 30D      | 2.2D     | 3.9D     | 2.3      | 44       |
| 11/07/2013 14:04 | 0.00      | 0.0D      | 63D       | 30D      | 2.2D     | 3.9D     | 2.3      | 44       |
| 11/07/2013 14:05 | 0.00      | 0.0D      | 62D       | 47D      | 1.7D     | 3.6D     | 1.8      | 54       |
| 11/07/2013 14:06 | 0.00      | 0.0D      | 60D       | 84D      | 1.6D     | 3.4D     | 1.8      | 52       |
| 11/07/2013 14:07 | 0.00      | 0.0D      | 61D       | 73D      | 1.7D     | 3.4D     | 1.8      | 51       |
| 11/07/2013 14:08 | 0.00      | 0.0D      | 60D       | 68D      | 1.6D     | 3.5D     | 1.8      | 53       |
| 11/07/2013 14:09 | 0.00      | 0.0D      | 60D       | 71D      | 1.7D     | 3.4D     | 1.8      | 51       |
| 11/07/2013 14:10 | 0.00      | 0.0D      | 61D       | 50D      | 1.9D     | 3.6D     | 2.0      | 47       |
| 11/07/2013 14:11 | 0.00      | 0.0D      | 61D       | 41D      | 2.1D     | 3.9D     | 2.2      | 47       |
| 11/07/2013 14:12 | 0.00      | 0.0D      | 61D       | 58D      | 1.5D     | 3.5D     | 25.0     | 56       |
| 11/07/2013 14:13 | 0.00      | 0.0D      | 61D       | 81D      | 1.5D     | 3.3D     | 25.0     | 53       |



| Group#-Channel#  | G1-C6     | G1-C5     | G1-C4     | G1-C3    | G1-C1    | G1-C2    | G1-C13   | G1-C14   |
|------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Long Descrip.    | 1-Min HCL | 1-Min SO2 | 1-Min NOx | 1-Min CO | 1-Min O2 | 1-Min O2 | 1-Min O2 | Moisture |
| Short Descrip.   | HCL       | SO2       | NOx       | CO       | O2 Wet   | O2 Dry   | O2 Wet   | Moisture |
| Units            | ppm       | ppm       | ppm       | ppm      | %        | %        | %        |          |
| Range            | 0-50      | 0-40      | 0-120     | 0-200    | 0-25     | 0-25     | 0-25     | 0-100    |
| 11/07/2013 14:14 | 0.00      | 0.0D      | 62D       | 70D      | 1.5D     | 3.4D     | 25.0     | 55       |
| 11/07/2013 14:15 | 0.00      | 0.0D      | 62D       | 75D      | 1.8D     | 3.4D     | 25.0     | 48       |
| 11/07/2013 14:16 | 0.00      | 0.0D      | 62D       | 56D      | 2.0D     | 3.7D     | 25.0     | 46       |
| 11/07/2013 14:17 | 0.00      | 0.0D      | 62D       | 63D      | 2.0D     | 3.8D     | 25.0     | 48       |
| 11/07/2013 14:18 | 0.00      | 0.0D      | 61D       | 83D      | 1.8D     | 3.6D     | 25.0     | 49       |
| 11/07/2013 14:19 | 0.00      | 0.0D      | 61D       | 59D      | 1.8D     | 3.8D     | 25.0     | 51       |
| 11/07/2013 14:20 | 0.00      | 0.0D      | 60D       | 89D      | 1.6D     | 3.4D     | 25.0     | 52       |
| 11/07/2013 14:21 | 0.00      | 0.0D      | 59D       | 73D      | 2.0D     | 3.7D     | 25.0     | 46       |
| 11/07/2013 14:22 | 0.00      | 0.0D      | 59D       | 60D      | 1.8D     | 3.6D     | 25.0     | 51       |
| 11/07/2013 14:23 | 0.00      | 0.0D      | 59D       | 56D      | 1.6D     | 3.4D     | 25.0     | 53       |
| 11/07/2013 14:24 | 0.00      | 0.0D      | 59D       | 59D      | 1.7D     | 3.5D     | 1.8      | 51       |
| 11/07/2013 14:25 | 0.00      | 0.0D      | 60D       | 58D      | 1.5D     | 3.4D     | 1.6      | 56       |
| 11/07/2013 14:26 | 0.00      | 0.0D      | 60D       | 80D      | 1.6D     | 3.3D     | 1.8      | 50       |
| 11/07/2013 14:27 | 0.00      | 0.0D      | 61D       | 58D      | 1.8D     | 3.6D     | 2.1      | 48       |
| 11/07/2013 14:28 | 0.00      | 0.0D      | 61D       | 76D      | 1.8D     | 3.7D     | 2.2      | 50       |
| 11/07/2013 14:29 | 0.00      | 0.0D      | 61D       | 78D      | 1.6D     | 3.5D     | 2.6      | 54       |
| 11/07/2013 14:30 | 0.00      | 0.0D      | 61D       | 70D      | 1.9D     | 3.7D     | 2.9      | 47       |
| 11/07/2013 14:31 | 0.00      | 0.0D      | 38D       | 42D      | 1.2D     | 2.4D     | 2.1      | -10      |
| 11/07/2013 14:32 | 0.00      | 0.0D      | 13D       | 12D      | 2.5D     | 0.7D     | 3.3      | -10      |
| 11/07/2013 14:33 | 0.00      | 0.0D      | 0D        | 1D       | 4.0D     | 0.0D     | 4.8      | 110      |
| 11/07/2013 14:34 | 0.00      | 0.0D      | 0D        | 0D       | 3.7D     | 0.0D     | 4.5      | 110      |
| 11/07/2013 14:35 | 0.00      | 0.0D      | 0D        | 0D       | 3.6D     | 0.0D     | 4.4      | 110      |
| 11/07/2013 14:36 | 1.00      | 0.0D      | 0D        | 0D       | 3.5D     | 0.0D     | 4.3      | 110      |
| 11/07/2013 14:37 | 3.00      | 0.0D      | 0D        | 0D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:38 | 5.00      | 0.0D      | 0D        | 1D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:39 | 8.00      | 0.0D      | 0D        | 1D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:40 | 10.00     | 0.0D      | 0D        | 1D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:41 | 10.00     | 0.0D      | 0D        | 0D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:42 | 10.00     | 0.0D      | 0D        | 0D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:43 | 10.00     | 0.0D      | 0D        | 1D       | 3.1D     | 0.0D     | 4.0      | 110      |
| 11/07/2013 14:44 | 11.00     | 0.0D      | 0D        | 1D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:45 | 16.00     | 0.0D      | 0D        | 1D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:46 | 21.00     | 0.0D      | 0D        | 1D       | 3.5D     | 0.0D     | 4.3      | -10      |
| 11/07/2013 14:47 | 22.00     | 0.0D      | 0D        | 0D       | 3.5D     | 0.0D     | 4.3      | -10      |
| 11/07/2013 14:48 | 23.00     | 0.0D      | 0D        | 0D       | 3.5D     | 0.0D     | 4.4      | -10      |
| 11/07/2013 14:49 | 23.00     | 0.0D      | 0D        | 1D       | 3.6D     | 0.0D     | 4.4      | -10      |
| 11/07/2013 14:50 | 24.00     | 0.0D      | 0D        | 0D       | 3.7D     | 0.0D     | 4.5      | -10      |
| 11/07/2013 14:51 | 24.00     | 0.0D      | 0D        | 1D       | 3.7D     | 0.0D     | 4.5      | 110      |
| 11/07/2013 14:52 | 24.00     | 0.0D      | 0D        | 1D       | 3.7D     | 0.0D     | 4.5      | 110      |
| 11/07/2013 14:53 | 24.00     | 0.0D      | 0D        | 1D       | 3.7D     | 0.0D     | 4.5      | 110      |
| 11/07/2013 14:54 | 25.00     | 0.0D      | 0D        | 1D       | 3.7D     | 0.0D     | 4.5      | 110      |
| 11/07/2013 14:55 | 25.00     | 0.0D      | 0D        | 0D       | 3.3D     | 0.0D     | 4.1      | -10      |
| 11/07/2013 14:56 | 26.00     | 0.0D      | 0D        | 0D       | 3.6D     | 0.0D     | 4.4      | 110      |
| 11/07/2013 14:57 | 37.00     | 0.0D      | 0D        | 1D       | 3.5D     | 0.0D     | 4.3      | 110      |
| 11/07/2013 14:58 | 41.00     | 0.0D      | 0D        | 0D       | 3.4D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 14:59 | 42.00     | 0.0D      | 0D        | 1D       | 3.3D     | 0.0D     | 4.1      | 110      |
| 11/07/2013 15:00 | 43.00     | 0.0D      | 0D        | 1D       | 3.2D     | 0.0D     | 4.0      | 110      |
| 11/07/2013 15:01 | 43.00     | 0.0D      | 0D        | 1D       | 3.1D     | 0.0D     | 3.9      | 110      |
| 11/07/2013 15:02 | 43.00     | 0.0D      | 0D        | 0D       | 3.0D     | 0.0D     | 3.8      | 110      |
| 11/07/2013 15:03 | 44.00     | 0.0D      | 0D        | 0D       | 2.9D     | 0.0D     | 3.7      | 110      |
| 11/07/2013 15:04 | 44.00     | 0.0D      | 0D        | 0D       | 2.8D     | 0.0D     | 3.6      | 110      |
| 11/07/2013 15:05 | 44.00     | 0.0D      | 0D        | 0D       | 2.6D     | 0.0D     | 3.5      | 110      |

| Group#-Channel#  | G1-C6     | G1-C5     | G1-C4     | G1-C3    | G1-C1    | G1-C2    | G1-C13   | G1-C14   |
|------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Long Descrip.    | 1-Min HCL | 1-Min SO2 | 1-Min NOx | 1-Min CO | 1-Min O2 | 1-Min O2 | 1-Min O2 | Moisture |
| Short Descrip.   | HCL       | SO2       | NOx       | CO       | O2 Wet   | O2 Dry   | O2 Wet   | Moisture |
| Units            | ppm       | ppm       | ppm       | ppm      | %        | %        | %        |          |
| Range            | 0-50      | 0-40      | 0-120     | 0-200    | 0-25     | 0-25     | 0-25     | 0-100    |
| 11/07/2013 15:06 | 44.00     | 0.0D      | 0D        | 0D       | 2.5D     | 0.0D     | 3.4      | 110      |
| 11/07/2013 15:07 | 44.00     | 0.0D      | 0D        | 0D       | 1.7D     | 1.4D     | 2.5      | 110      |
| 11/07/2013 15:08 | 20.00     | 0.0D      | 0D        | 1D       | 0.3D     | 0.2D     | 1.2      | -10      |
| 11/07/2013 15:09 | 6.00      | 5.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 1.2      | 110      |
| 11/07/2013 15:10 | 3.00      | 8.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 1.2      | 110      |
| 11/07/2013 15:11 | 2.00      | 9.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 1.2      | 110      |
| 11/07/2013 15:12 | 2.00      | 9.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 1.2      | -10      |
| 11/07/2013 15:13 | 2.00      | 9.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 1.2      | -10      |
| 11/07/2013 15:14 | 2.00      | 10.0D     | 0D        | 1D       | 0.3D     | 0.1D     | 1.2      | -10      |
| 11/07/2013 15:15 | 1.00      | 10.0D     | 0D        | 0D       | 0.4D     | 0.0D     | 1.3      | 110      |
| 11/07/2013 15:16 | 2.00      | 16.0D     | 0D        | 0D       | 1.1D     | 0.0D     | 1.9      | 110      |
| 11/07/2013 15:17 | 1.00      | 20.0D     | 0D        | 0D       | 0.9D     | 0.0D     | 1.7      | 110      |
| 11/07/2013 15:18 | 1.00      | 22.0D     | 0D        | 0D       | 0.8D     | 0.0D     | 1.7      | 110      |
| 11/07/2013 15:19 | 1.00      | 22.0D     | 0D        | 0D       | 0.9D     | 0.0D     | 1.8      | 110      |
| 11/07/2013 15:20 | 1.00      | 23.0D     | 0D        | 0D       | 0.9D     | 0.0D     | 1.8      | 110      |
| 11/07/2013 15:21 | 1.00      | 23.0D     | 0D        | 1D       | 0.9D     | 0.0D     | 1.8      | 110      |
| 11/07/2013 15:22 | 1.00      | 23.0D     | 0D        | 0D       | 1.5D     | 0.0D     | 2.3      | 110      |
| 11/07/2013 15:23 | 1.00      | 29.0D     | 0D        | 0D       | 1.5D     | 0.0D     | 2.3      | 110      |
| 11/07/2013 15:24 | 1.00      | 35.0D     | 0D        | 0D       | 1.4D     | 0.0D     | 2.2      | 110      |
| 11/07/2013 15:25 | 1.00      | 37.0D     | 0D        | 0D       | 1.3D     | 0.0D     | 2.2      | 110      |
| 11/07/2013 15:26 | 1.00      | 37.0D     | 0D        | 1D       | 1.3D     | 0.0D     | 2.2      | 110      |
| 11/07/2013 15:27 | 1.00      | 37.0D     | 0D        | 0D       | 1.3D     | 0.0D     | 2.1      | 110      |
| 11/07/2013 15:28 | 1.00      | 37.0D     | 0D        | 0D       | 1.2D     | 0.0D     | 2.1      | 110      |
| 11/07/2013 15:29 | 1.00      | 38.0D     | 0D        | 2D       | 0.9D     | 0.0D     | 1.8      | 110      |
| 11/07/2013 15:30 | 1.00      | 32.0D     | 12D       | 46D      | 1.4D     | 0.0D     | 2.2      | 110      |
| 11/07/2013 15:31 | 1.00      | 12.0D     | 30D       | 50D      | 3.9D     | 0.0D     | 4.7      | 110      |
| 11/07/2013 15:32 | 1.00      | 4.0D      | 30D       | 50D      | 4.5D     | 0.0D     | 5.3      | -10      |
| 11/07/2013 15:33 | 1.00      | 3.0D      | 30D       | 52D      | 4.6D     | 0.0D     | 5.4      | 110      |
| 11/07/2013 15:34 | 1.00      | 2.0D      | 61D       | 106D     | 0.9D     | 0.0D     | 1.7      | -10      |
| 11/07/2013 15:35 | 0.00      | 1.0D      | 66D       | 112D     | 0.4D     | 0.0D     | 1.2      | -10      |
| 11/07/2013 15:36 | 1.00      | 1.0D      | 66D       | 112D     | 0.3D     | 0.0D     | 1.2      | -10      |
| 11/07/2013 15:37 | 1.00      | 1.0D      | 67D       | 114D     | 0.3D     | 0.0D     | 1.2      | -10      |
| 11/07/2013 15:38 | 1.00      | 1.0D      | 104D      | 177D     | 0.3D     | 0.0D     | 1.2      | -10      |
| 11/07/2013 15:39 | 1.00      | 1.0D      | 109D      | 183D     | 0.3D     | 0.0D     | 1.2      | 110      |
| 11/07/2013 15:40 | 1.00      | 1.0D      | 109D      | 183D     | 0.3D     | 0.0D     | 1.2      | 110      |
| 11/07/2013 15:41 | 1.00      | 1.0D      | 107D      | 176D     | 2.0D     | 0.4D     | 2.9      | -10      |
| 11/07/2013 15:42 | 0.00      | 1.0D      | 12D       | 18D      | 5.9D     | 5.6D     | 6.7      | -7       |
| 11/07/2013 15:43 | 1.00      | 0.0D      | 0D        | 1D       | 5.9D     | 6.0D     | 6.7      | 2        |
| 11/07/2013 15:44 | 1.00      | 0.0D      | 0D        | 1D       | 5.9D     | 6.0D     | 6.6      | 2        |
| 11/07/2013 15:45 | 1.00      | 0.0D      | 0D        | 1D       | 8.4D     | 6.5D     | 9.1      | -10      |
| 11/07/2013 15:46 | 1.00      | 0.0D      | 0D        | 1D       | 13.9D    | 13.4D    | 14.5     | -4       |
| 11/07/2013 15:47 | 0.00      | 0.0D      | 0D        | 1D       | 13.9D    | 14.0D    | 14.5     | 0        |
| 11/07/2013 15:48 | 0.00      | 0.0D      | 0D        | 1D       | 13.9D    | 14.0D    | 14.5     | 0        |
| 11/07/2013 15:49 | 1.00      | 0.0D      | 0D        | 1D       | 15.9D    | 14.4D    | 16.5     | -10      |
| 11/07/2013 15:50 | 0.00      | 0.0D      | 0D        | 0D       | 20.5D    | 20.1D    | 21.0     | -2       |
| 11/07/2013 15:51 | 1.00      | 0.0D      | 0D        | 1D       | 20.5D    | 20.6D    | 20.9     | 0        |
| 11/07/2013 15:52 | 0.00      | 0.0D      | 0D        | 1D       | 20.5D    | 20.6D    | 20.9     | 1        |
| 11/07/2013 15:53 | 0.00      | 0.0D      | 0D        | 1D       | 15.2D    | 20.3D    | 15.8     | 26       |
| 11/07/2013 15:54 | 3.00      | 0.0D      | 51D       | 45D      | 2.5D     | 5.6D     | 3.3      | 52       |
| 11/07/2013 15:55 | 5.00      | 0.0<      | 60<       | 61<      | 2.2<     | 3.6<     | 3.1      | 39       |



[illegible]

# Linearity Test

| Gainesville Renewable Energy Center (GREC) |         |
|--|---------|
| Gainesville, Florida                       |         |
| Facility ID                                | Unit ID |
| 57241                                      | BFB1    |

## Cycle 2

| Test Date: | November 7, 2013 |
|------------|------------------|
|------------|------------------|

| Start Time: | 17:32:00 | EndTime: | 19:00:00 |
|-------------|----------|----------|----------|
|-------------|----------|----------|----------|

Seq Step

|    | Analyzer                | Time     | Level | Target | Actual  | Span | ABS Err | % CRM | Seconds |
|----|-------------------------|----------|-------|--------|---------|------|---------|-------|---------|
| 0  | HCL, Hydrogen Chloride  | 17:44:00 | Low   | 13.60  | 10.870  | 50   | 2.73    | 0.20  | 760     |
| 1  |                         | 17:57:00 | Mid   | 28.00  | 24.780  | 50   | 3.22    | 0.12  | 760     |
| 2  |                         | 18:10:00 | High  | 41.00  | 44.350  | 50   | 3.35    | 0.08  | 760     |
| 3  | SO2, Sulphur Dioxide    | 18:17:00 | Low   | 10.18  | 9.900   | 40   | 0.28    | 0.03  | 450     |
| 4  |                         | 18:25:00 | Mid   | 22.50  | 23.000  | 40   | 0.50    | 0.02  | 450     |
| 5  |                         | 18:32:00 | High  | 35.90  | 37.700  | 40   | 1.80    | 0.05  | 450     |
| 6  | CO, Carbon Monoxide     | 18:36:00 | Low   | 49.30  | 50.000  | 200  | 0.70    | 0.01  | 240     |
| 7  |                         | 18:40:00 | Mid   | 109.70 | 111.000 | 200  | 1.30    | 0.01  | 240     |
| 8  |                         | 18:44:00 | High  | 182.40 | 184.000 | 200  | 1.60    | 0.01  | 240     |
| 6  | NOx, Oxides of Nitrogen | 18:36:00 | Low   | 30.30  | 30.000  | 120  | 0.30    | 0.01  | 240     |
| 7  |                         | 18:40:00 | Mid   | 66.00  | 66.000  | 120  | 0.00    | 0.00  | 240     |
| 8  |                         | 18:44:00 | High  | 108.90 | 109.000 | 120  | 0.10    | 0.00  | 240     |
| 9  | O2 wet                  | 18:48:00 | Low   | 6.03   | 5.900   | 25   | 0.13    | 0.02  | 240     |
| 10 |                         | 18:52:00 | Mid   | 14.05  | 14.000  | 25   | 0.05    | 0.00  | 240     |
| 11 |                         | 18:56:00 | High  | 20.62  | 20.400  | 25   | 0.22    | 0.01  | 240     |
| 9  | O2 dry                  | 18:48:00 | Low   | 6.03   | 6.000   | 25   | 0.03    | 0.00  | 240     |
| 10 |                         | 18:52:00 | Mid   | 14.05  | 14.000  | 25   | 0.05    | 0.00  | 240     |
| 11 |                         | 18:56:00 | High  | 20.62  | 20.600  | 25   | 0.02    | 0.00  | 240     |



# Data Summary Report

Company: GREC Gainesville, FL  
10001 Northwest 13th St  
Gainesville, FL 32653



Data Group: All Data Groups  
Report Name: Summary (Linearity)  
Start of Report: 11/07/2013 17:30  
End of Report: 11/07/2013 19:00

Cycle 2 Start 17:32

Validation: All Available Data

| Group#-Channel#  | G1-C6     | G1-C5     | G1-C4     | G1-C3    | G1-C1    | G1-C2    | G1-C13   | G1-C14   |
|------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Long Descrip.    | 1-Min HCL | 1-Min SO2 | 1-Min NOx | 1-Min CO | 1-Min O2 | 1-Min O2 | 1-Min O2 | Moisture |
| Short Descrip.   | HCL       | SO2       | NOx       | CO       | O2 Wet   | O2 Dry   | O2 Wet   | Moisture |
| Units            | ppm       | ppm       | ppm       | ppm      | %        | %        | %        |          |
| Range            | 0-50      | 0-40      | 0-120     | 0-200    | 0-25     | 0-25     | 0-25     | 0-100    |
| 11/07/2013 17:30 | 0.00      | 0.0       | 60        | 54       | 2.5      | 3.9      | 3.1      | 37       |
| 11/07/2013 17:31 | 0.00      | 0.0       | 59        | 61       | 2.4      | 3.7      | 3.0      | 35       |
| 11/07/2013 17:32 | 0.01      | 0.0<      | 58<       | 49<      | 2.5<     | 3.9<     | 3.3      | 29       |
| 11/07/2013 17:33 | 0.00      | 0.0D      | 21D       | 20D      | 1.3D     | 1.6D     | 1.9      | -10      |
| 11/07/2013 17:34 | 0.00      | 0.0D      | 0D        | 0D       | 3.6D     | 0.0D     | 4.2      | -10      |
| 11/07/2013 17:35 | 0.41      | 0.0D      | 0D        | 1D       | 4.0D     | 0.0D     | 4.6      | 110      |
| 11/07/2013 17:36 | 0.22      | 0.0D      | 0D        | 1D       | 4.0D     | 0.0D     | 4.6      | 110      |
| 11/07/2013 17:37 | 0.20      | 0.0D      | 0D        | 1D       | 3.9D     | 0.0D     | 4.5      | 110      |
| 11/07/2013 17:38 | 1.15      | 0.0D      | 0D        | 0D       | 3.8D     | 0.0D     | 4.4      | 110      |
| 11/07/2013 17:39 | 2.68      | 0.0D      | 0D        | 0D       | 3.7D     | 0.0D     | 4.3      | 110      |
| 11/07/2013 17:40 | 4.35      | 0.0D      | 0D        | 1D       | 3.7D     | 0.0D     | 4.3      | 110      |
| 11/07/2013 17:41 | 5.63      | 0.0D      | 0D        | 0D       | 3.7D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 17:42 | 7.22      | 0.0D      | 0D        | 1D       | 3.6D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 17:43 | 9.40      | 0.0D      | 0D        | 1D       | 3.6D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 17:44 | 10.87     | 0.0D      | 0D        | 0D       | 3.6D     | 0.0D     | 4.2      | 110      |
| 11/07/2013 17:45 | 10.64     | 0.0D      | 0D        | 1D       | 2.6D     | 0.0D     | 3.2      | 110      |
| 11/07/2013 17:46 | 12.25     | 0.0D      | 0D        | 0D       | 3.4D     | 0.0D     | 3.9      | 110      |
| 11/07/2013 17:47 | 17.37     | 0.0D      | 0D        | 0D       | 3.3D     | 0.0D     | 3.9      | 110      |
| 11/07/2013 17:48 | 21.61     | 0.0D      | 0D        | 0D       | 3.3D     | 0.0D     | 3.9      | 110      |
| 11/07/2013 17:49 | 22.60     | 0.0D      | 0D        | 0D       | 3.3D     | 0.0D     | 3.9      | 110      |
| 11/07/2013 17:50 | 22.59     | 0.0D      | 0D        | 0D       | 3.2D     | 0.0D     | 3.8      | 110      |
| 11/07/2013 17:51 | 22.98     | 0.0D      | 0D        | 0D       | 3.2D     | 0.0D     | 3.7      | 110      |
| 11/07/2013 17:52 | 23.46     | 0.0D      | 0D        | 0D       | 3.1D     | 0.0D     | 3.7      | 110      |
| 11/07/2013 17:53 | 23.81     | 0.0D      | 0D        | 0D       | 2.9D     | 0.0D     | 3.5      | 110      |
| 11/07/2013 17:54 | 24.21     | 0.0D      | 0D        | 0D       | 2.8D     | 0.0D     | 3.4      | 110      |
| 11/07/2013 17:55 | 24.66     | 0.0D      | 0D        | 0D       | 2.6D     | 0.0D     | 3.2      | 110      |
| 11/07/2013 17:56 | 24.76     | 0.0D      | 0D        | 0D       | 2.5D     | 0.0D     | 3.1      | 110      |
| 11/07/2013 17:57 | 24.78     | 0.0D      | 0D        | 1D       | 2.3D     | 0.0D     | 2.9      | 110      |
| 11/07/2013 17:58 | 25.23     | 0.0D      | 0D        | 0D       | 1.4D     | 0.0D     | 2.0      | 110      |
| 11/07/2013 17:59 | 29.70     | 0.0D      | 0D        | 1D       | 1.9D     | 0.0D     | 2.5      | 110      |
| 11/07/2013 18:00 | 39.90     | 0.0D      | 0D        | 1D       | 1.8D     | 0.0D     | 2.4      | 110      |
| 11/07/2013 18:01 | 42.32     | 0.0D      | 0D        | 1D       | 1.8D     | 0.0D     | 2.4      | -10      |
| 11/07/2013 18:02 | 43.01     | 0.0D      | 0D        | 0D       | 1.7D     | 0.0D     | 2.3      | 110      |
| 11/07/2013 18:03 | 43.28     | 0.0D      | 0D        | 0D       | 1.6D     | 0.0D     | 2.2      | 110      |
| 11/07/2013 18:04 | 43.83     | 0.0D      | 0D        | 0D       | 1.5D     | 0.0D     | 2.1      | 110      |
| 11/07/2013 18:05 | 44.16     | 0.0D      | 0D        | 1D       | 1.4D     | 0.0D     | 2.0      | 110      |
| 11/07/2013 18:06 | 44.01     | 0.0D      | 0D        | 1D       | 1.3D     | 0.0D     | 1.9      | 110      |
| 11/07/2013 18:07 | 44.43     | 0.0D      | 0D        | 1D       | 1.2D     | 0.0D     | 1.8      | 110      |
| 11/07/2013 18:08 | 44.43     | 0.0D      | 0D        | 0D       | 1.2D     | 0.0D     | 1.8      | 110      |
| 11/07/2013 18:09 | 44.27     | 0.0D      | 0D        | 1D       | 1.1D     | 0.0D     | 1.7      | 110      |
| 11/07/2013 18:10 | 44.35     | 0.0D      | 0D        | 1D       | 0.9D     | 0.0D     | 1.5      | 110      |



| Group#-Channel#  | G1-C6     | G1-C5     | G1-C4     | G1-C3    | G1-C1    | G1-C2    | G1-C13   | G1-C14   |
|------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Long Descrip.    | 1-Min HCL | 1-Min SO2 | 1-Min NOx | 1-Min CO | 1-Min O2 | 1-Min O2 | 1-Min O2 | Moisture |
| Short Descrip.   | HCL       | SO2       | NOx       | CO       | O2 Wet   | O2 Dry   | O2 Wet   | Moisture |
| Units            | ppm       | ppm       | ppm       | ppm      | %        | %        | %        |          |
| Range            | 0-50      | 0-40      | 0-120     | 0-200    | 0-25     | 0-25     | 0-25     | 0-100    |
| 11/07/2013 18:11 | 44.55     | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:12 | 11.87     | 3.3D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:13 | 5.48      | 7.6D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:14 | 3.25      | 8.9D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:15 | 2.30      | 9.5D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:16 | 2.13      | 9.7D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:17 | 1.67      | 9.9D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:18 | 1.62      | 9.9D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:19 | 1.52      | 12.8D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:20 | 1.31      | 19.7D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:21 | 1.31      | 21.9D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:22 | 1.09      | 22.4D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:23 | 0.87      | 22.8D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:24 | 1.03      | 22.9D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:25 | 1.14      | 23.0D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:26 | 0.91      | 23.9D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:27 | 0.90      | 31.4D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:28 | 0.84      | 36.0D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:29 | 0.74      | 37.0D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:30 | 0.76      | 37.5D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:31 | 0.70      | 37.6D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:32 | 0.66      | 37.7D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:33 | 0.56      | 37.8D     | 4D        | 10D      | 1.0D     | 0.0D     | 1.6      | -10      |
| 11/07/2013 18:34 | 0.46      | 28.1D     | 29D       | 49D      | 4.2D     | 0.0D     | 4.8      | -10      |
| 11/07/2013 18:35 | 0.52      | 9.3D      | 30D       | 50D      | 4.8D     | 0.0D     | 5.4      | -10      |
| 11/07/2013 18:36 | 0.60      | 4.0D      | 30D       | 50D      | 5.0D     | 0.0D     | 5.5      | -10      |
| 11/07/2013 18:37 | 0.55      | 2.4D      | 36D       | 62D      | 2.3D     | 0.0D     | 2.9      | -10      |
| 11/07/2013 18:38 | 0.52      | 1.8D      | 65D       | 110D     | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:39 | 0.45      | 1.4D      | 66D       | 112D     | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:40 | 0.61      | 1.2D      | 66D       | 111D     | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:41 | 0.57      | 1.1D      | 73D       | 125D     | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:42 | 0.50      | 1.0D      | 107D      | 181D     | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:43 | 0.63      | 1.0D      | 109D      | 184D     | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 18:44 | 0.45      | 1.0D      | 109D      | 184D     | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 18:45 | 0.55      | 0.9D      | 91D       | 148D     | 3.4D     | 1.4D     | 4.0      | 110      |
| 11/07/2013 18:46 | 0.07      | 0.6D      | 4D        | 6D       | 5.9D     | 5.9D     | 6.5      | -1       |
| 11/07/2013 18:47 | 0.55      | 0.3D      | 0D        | 1D       | 5.9D     | 6.0D     | 6.4      | 2        |
| 11/07/2013 18:48 | 0.56      | 0.2D      | 0D        | 0D       | 5.9D     | 6.0D     | 6.4      | 2        |
| 11/07/2013 18:49 | 0.57      | 0.1D      | 0D        | 1D       | 10.3D    | 7.8D     | 10.8     | -10      |
| 11/07/2013 18:50 | 0.50      | 0.1D      | 0D        | 1D       | 14.0D    | 13.8D    | 14.3     | -1       |
| 11/07/2013 18:51 | 0.57      | 0.1D      | 0D        | 0D       | 13.9D    | 14.0D    | 14.3     | 0        |
| 11/07/2013 18:52 | 0.28      | 0.1D      | 0D        | 0D       | 14.0D    | 14.0D    | 14.3     | 0        |
| 11/07/2013 18:53 | 0.33      | 0.0D      | 0D        | 1D       | 17.4D    | 15.5D    | 17.7     | -10      |
| 11/07/2013 18:54 | 0.54      | 0.0D      | 0D        | 0D       | 20.5D    | 20.4D    | 20.7     | 0        |
| 11/07/2013 18:55 | 0.51      | 0.0D      | 0D        | 1D       | 20.4D    | 20.6D    | 20.7     | 1        |
| 11/07/2013 18:56 | 0.48      | 0.0D      | 0D        | 1D       | 20.4D    | 20.6D    | 20.6     | 1        |
| 11/07/2013 18:57 | 0.52      | 0.0D      | 6D        | 14D      | 11.6D    | 17.6D    | 12.0     | 40       |
| 11/07/2013 18:58 | 3.55      | 0.0D      | 56D       | 65D      | 2.4D     | 4.2D     | 3.0      | 42       |
| 11/07/2013 18:59 | 4.64      | 0.0       | 59        | 50       | 2.5      | 3.8      | 3.1      | 33       |
| 11/07/2013 19:00 | 3.47      | 0.0       | 58        | 56       | 2.4      | 3.8      | 3.0      | 35       |

[illegible]



## Linearity Test

| Gainesville Renewable Energy Center (GREC) |         |
|--|---------|
| Gainesville, Florida                       |         |
| Facility ID                                | Unit ID |
| 57241                                      | 8FB1    |

## Cycle 3

| Test Date: | November 7, 2013 |
|------------|------------------|
|------------|------------------|

| Start Time: | 19:00:00 | EndTime: | 20:21:00 |
|-------------|----------|----------|----------|
|-------------|----------|----------|----------|

Seq Step

|    | Analyzer                | Time     | Level | Target | Actual  | Span | ABS Err | % CRM | Seconds |
|----|-------------------------|----------|-------|--------|---------|------|---------|-------|---------|
| 0  | HCL, Hydrogen Chloride  | 19:13:00 | Low   | 13.60  | 9.800   | 50   | 3.80    | 0.28  | 600     |
| 1  |                         | 19:23:00 | Mid   | 28.00  | 25.030  | 50   | 2.97    | 0.11  | 600     |
| 2  |                         | 19:33:00 | High  | 41.00  | 44.740  | 50   | 3.74    | 0.09  | 600     |
|    | Analyzer                | Time     | Level | Target | Actual  | Span | ABS Err | % CRM | Seconds |
| 3  | SO2, Sulphur Dioxide    | 19:41:00 | Low   | 10.18  | 10.000  | 40   | 0.18    | 0.02  | 450     |
| 4  |                         | 19:48:00 | Mid   | 22.50  | 23.100  | 40   | 0.60    | 0.03  | 450     |
| 5  |                         | 19:55:00 | High  | 35.90  | 37.700  | 40   | 1.80    | 0.05  | 450     |
|    | Analyzer                | Time     | Level | Target | Actual  | Span | ABS Err | % CRM | Seconds |
| 6  | CO, Carbon Monoxide     | 20:00:00 | Low   | 49.30  | 50.000  | 200  | 0.70    | 0.01  | 240     |
| 7  |                         | 20:05:00 | Mid   | 109.70 | 110.000 | 200  | 0.30    | 0.00  | 240     |
| 8  |                         | 20:08:00 | High  | 182.40 | 183.000 | 200  | 0.60    | 0.00  | 240     |
|    | Analyzer                | Time     | Level | Target | Actual  | Span | ABS Err | % CRM | Seconds |
| 6  | NOx, Oxides of Nitrogen | 20:00:00 | Low   | 30.30  | 30.000  | 120  | 0.30    | 0.01  | 240     |
| 7  |                         | 20:05:00 | Mid   | 66.00  | 66.000  | 120  | 0.00    | 0.00  | 240     |
| 8  |                         | 20:08:00 | High  | 108.90 | 109.000 | 120  | 0.10    | 0.00  | 240     |
|    | Analyzer                | Time     | Level | Target | Actual  | Span | ABS Err | % CRM | Seconds |
| 9  | O2 wet                  | 20:12:00 | Low   | 6.03   | 5.900   | 25   | 0.13    | 0.02  | 240     |
| 10 |                         | 20:16:00 | Mid   | 14.05  | 13.900  | 25   | 0.15    | 0.01  | 240     |
| 11 |                         | 20:20:00 | High  | 20.62  | 20.400  | 25   | 0.22    | 0.01  | 240     |
|    | Analyzer                | Time     | Level | Target | Actual  | Span | ABS Err | % CRM | Seconds |
| 9  | O2 dry                  | 20:12:00 | Low   | 6.03   | 6.000   | 25   | 0.03    | 0.00  | 240     |
| 10 |                         | 20:16:00 | Mid   | 14.05  | 14.000  | 25   | 0.05    | 0.00  | 240     |
| 11 |                         | 20:20:00 | High  | 20.62  | 20.600  | 25   | 0.02    | 0.00  | 240     |

# Data Summary Report

Company: GREC Gainesville, FL  
10001 Northwest 13th St  
Gainesville, FL 32653



Data Group: All Data Groups  
Report Name: Summary (Linearity)  
Start of Report: 11/07/2013 19:00  
End of Report: 11/07/2013 20:25

Cycle 3 Start 19:00

Validation: All Available Data

| Group#-Channel#  | G1-C6     | G1-C5     | G1-C4     | G1-C3    | G1-C1    | G1-C2    | G1-C13   | G1-C14   |
|------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Long Descrip.    | 1-Min HCL | 1-Min SO2 | 1-Min NOx | 1-Min CO | 1-Min O2 | 1-Min O2 | 1-Min O2 | Moisture |
| Short Descrip.   | HCL       | SO2       | NOx       | CO       | O2 Wet   | O2 Dry   | O2 Wet   | Moisture |
| Units            | ppm       | ppm       | ppm       | ppm      | %        | %        | %        |          |
| Range            | 0-50      | 0-40      | 0-120     | 0-200    | 0-25     | 0-25     | 0-25     | 0-100    |
| 11/07/2013 19:00 | 3.47      | 0.0       | 58        | 56       | 2.4      | 3.8      | 3.0      | 35       |
| 11/07/2013 19:01 | 2.22      | 0.0       | 58        | 54       | 2.5      | 3.7      | 3.0      | 33       |
| 11/07/2013 19:02 | 1.79      | 0.0       | 57        | 58       | 2.3      | 3.6      | 2.8      | 36       |
| 11/07/2013 19:03 | 1.52      | 0.0       | 57        | 71       | 2.2      | 3.4      | 2.8      | 35       |
| 11/07/2013 19:04 | 1.27<     | 0.0<      | 57<       | 70<      | 2.1<     | 3.4<     | 3.0      | 25       |
| 11/07/2013 19:05 | 1.70D     | 0.0D      | 12D       | 14D      | 0.3D     | 0.9D     | 0.9      | -10      |
| 11/07/2013 19:06 | 1.32D     | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:07 | 2.94D     | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:08 | 4.80D     | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:09 | 6.65D     | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:10 | 7.96D     | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:11 | 8.79D     | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:12 | 9.50D     | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:13 | 9.80D     | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:14 | 10.28D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:15 | 11.91D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:16 | 17.11D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:17 | 22.37D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:18 | 23.42D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:19 | 24.12D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:20 | 24.47D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:21 | 24.58D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:22 | 24.83D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:23 | 25.03D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:24 | 25.10D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:25 | 27.93D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:26 | 36.43D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:27 | 42.60D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:28 | 43.60D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:29 | 43.94D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:30 | 44.13D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:31 | 44.39D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:32 | 44.56D    | 0.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:33 | 44.74D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:34 | 44.96D    | 0.0D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:35 | 39.72D    | 0.2D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |
| 11/07/2013 19:36 | 13.07D    | 4.3D      | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:37 | 4.25D     | 8.0D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:38 | 2.82D     | 9.1D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | -10      |



| Group#-Channel#  | G1-C6     | G1-C5     | G1-C4     | G1-C3    | G1-C1    | G1-C2    | G1-C13   | G1-C14   |
|------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Long Descrip.    | 1-Min HCL | 1-Min SO2 | 1-Min NOx | 1-Min CO | 1-Min O2 | 1-Min O2 | 1-Min O2 | Moisture |
| Short Descrip.   | HCL       | SO2       | NOx       | CO       | O2 Wet   | O2 Dry   | O2 Wet   | Moisture |
| Units            | ppm       | ppm       | ppm       | ppm      | %        | %        | %        |          |
| Range            | 0-50      | 0-40      | 0-120     | 0-200    | 0-25     | 0-25     | 0-25     | 0-100    |
| 11/07/2013 19:39 | 2.34D     | 9.6D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:40 | 1.94D     | 9.8D      | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:41 | 1.55D     | 10.0D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:42 | 1.48D     | 10.2D     | 0D        | 2D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:43 | 1.50D     | 14.0D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:44 | 1.36D     | 20.5D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:45 | 1.01D     | 22.2D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:46 | 1.20D     | 22.6D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:47 | 1.16D     | 22.9D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:48 | 0.90D     | 23.1D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:49 | 0.80D     | 23.1D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:50 | 0.92D     | 24.5D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:51 | 0.85D     | 32.7D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:52 | 0.92D     | 36.4D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:53 | 0.77D     | 37.2D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:54 | 0.79D     | 37.5D     | 0D        | 0D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:55 | 0.70D     | 37.7D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:56 | 0.71D     | 37.9D     | 0D        | 1D       | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 19:57 | 0.71D     | 37.8D     | 8D        | 15D      | 0.6D     | 0.0D     | 1.3      | 110      |
| 11/07/2013 19:58 | 0.68D     | 25.4D     | 30D       | 49D      | 2.2D     | 0.0D     | 2.7      | 110      |
| 11/07/2013 19:59 | 0.74D     | 8.0D      | 30D       | 50D      | 2.4D     | 0.0D     | 3.0      | 110      |
| 11/07/2013 20:00 | 0.53D     | 3.6D      | 30D       | 50D      | 2.7D     | 0.0D     | 3.3      | 110      |
| 11/07/2013 20:01 | 0.38D     | 2.1D      | 40D       | 69D      | 1.2D     | 0.0D     | 1.8      | 110      |
| 11/07/2013 20:02 | 0.38D     | 1.6D      | 65D       | 110D     | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 20:03 | 0.52D     | 1.3D      | 66D       | 111D     | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 20:04 | 0.63D     | 1.1D      | 66D       | 111D     | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 20:05 | 0.48D     | 0.9D      | 78D       | 133D     | 0.3D     | 0.0D     | 1.0      | -10      |
| 11/07/2013 20:06 | 0.44D     | 0.9D      | 108D      | 182D     | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 20:07 | 0.44D     | 0.9D      | 109D      | 183D     | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 20:08 | 0.41D     | 0.9D      | 109D      | 183D     | 0.3D     | 0.0D     | 0.9      | 110      |
| 11/07/2013 20:09 | 0.21D     | 0.8D      | 79D       | 126D     | 4.2D     | 2.2D     | 4.7      | 110      |
| 11/07/2013 20:10 | 0.29D     | 0.5D      | 2D        | 4D       | 6.0D     | 5.9D     | 6.5      | -1       |
| 11/07/2013 20:11 | 0.54D     | 0.2D      | 0D        | 1D       | 5.9D     | 6.0D     | 6.5      | 1        |
| 11/07/2013 20:12 | 0.53D     | 0.2D      | 0D        | 1D       | 5.9D     | 6.0D     | 6.4      | 2        |
| 11/07/2013 20:13 | 0.55D     | 0.2D      | 0D        | 1D       | 11.3D    | 8.9D     | 11.7     | -10      |
| 11/07/2013 20:14 | 0.46D     | 0.1D      | 0D        | 0D       | 14.0D    | 13.9D    | 14.3     | -1       |
| 11/07/2013 20:15 | 0.46D     | 0.1D      | 0D        | 0D       | 13.9D    | 14.0D    | 14.3     | 0        |
| 11/07/2013 20:16 | 0.50D     | 0.1D      | 0D        | 1D       | 13.9D    | 14.0D    | 14.3     | 0        |
| 11/07/2013 20:17 | 0.43D     | 0.1D      | 0D        | 1D       | 18.2D    | 16.4D    | 18.5     | -10      |
| 11/07/2013 20:18 | 0.38D     | 0.0D      | 0D        | 1D       | 20.4D    | 20.5D    | 20.6     | 0        |
| 11/07/2013 20:19 | 0.43D     | 0.0D      | 0D        | 1D       | 20.4D    | 20.6D    | 20.7     | 1        |
| 11/07/2013 20:20 | 0.08D     | 0.0D      | 0D        | 0D       | 20.4D    | 20.6D    | 20.7     | 1        |
| 11/07/2013 20:21 | 0.94D     | 0.0D      | 15D       | 4D       | 9.8D     | 16.1D    | 10.2     | 44       |
| 11/07/2013 20:22 | 3.97D     | 0.0D      | 68D       | 13D      | 3.3D     | 5.0D     | 3.9      | 33       |
| 11/07/2013 20:23 | 5.94D     | 0.1D      | 70D       | 13D      | 3.3D     | 4.6D     | 3.9      | 27       |
| 11/07/2013 20:24 | 3.80D     | 0.0D      | 70D       | 14D      | 3.5D     | 4.7D     | 4.0      | 26       |
| 11/07/2013 20:25 | 2.95D     | 0.0D      | 70D       | 14D      | 3.3D     | 4.6D     | 3.9      | 27       |

[illegible]