

## Johnson, Sabrina O

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**From:** Elizabeth Kennelley <ekennelley@jonesedmunds.com>  
**Sent:** Monday, August 27, 2018 11:14 AM  
**To:** Morgan, Steve  
**Cc:** Henry C. Norris; Ray Oates; Troy Hays  
**Subject:** Emailing: 2018.08.24\_RPT\_Citrus\_WACS 39859\_18Q3 Gas Mon.pdf  
**Attachments:** 2018.08.24\_RPT\_Citrus\_WACS 39859\_18Q3 Gas Mon.pdf

Good morning Steve,

Attached is the Third Quarter 2018 Landfill Gas Monitoring Report for the Citrus County Central Landfill (WACS 39859).

Please let us know if you have any problems opening the attachment or have questions or comments concerning the report.

Thank you,

Elizabeth D. Kennelley, MS, CEPM  
Project Scientist

P. 352.377.5821 X. 1416  
JONESEDMUNDS.COM  
730 NE Waldo Road, Gainesville, FL. 32641

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2018.08.24\_RPT\_Citrus\_WACS 39859\_18Q3 Gas Mon.pdf

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August 24, 2018

Mr. Steve Morgan  
Solid Waste Section  
Department of Environmental Protection  
13051 N Telecom Pkwy  
Temple Terrace, FL 33637-0926

RE: Citrus County Central Landfill  
Landfill Gas Monitoring Results – Third Quarter 2018  
FDEP Permit No.: 21375-025-SO-01  
Jones Edmunds Project Number: 03860-069-01

Dear Mr. Morgan:

Enclosed are the Third Quarter 2018 landfill gas monitoring results for the Citrus County Central Landfill conducted on July 27 and 30, 2018. The calibration log is also enclosed with this letter.

There were no detections of Methane in any of the landfill gas monitoring probes at any depths or in any of the on-site structures. However, elevated levels of carbon dioxide and decreased levels of oxygen were detected in most of the landfill gas monitoring probes. Based on these sampling results from the probes at varying depths, Methane does not exceed 100% of the LEL at the compliance boundary and the site is in compliance with the landfill gas migration rule.

The County continues to measure landfill gas concentration in the groundwater monitoring wells. Methane was above 100% of the LEL in groundwater monitoring wells and MW-3, MW-5, MW-6, MW-7, MW-16, MW-17, MW-20, MW-21, and MW-22.

The results from the measurements conducted in the new landfill gas monitoring probes along with the existing probes retrofitted with tubing installed to varying depths indicate that the site is in compliance with the landfill gas migration rules. If you have any questions regarding this information, please contact me at (352) 377-5821.

Sincerely,



Troy D. Hays, PG  
Sr. Manager/Vice President  
730 NE Waldo Road  
Gainesville, FL 32618

M:\EnvDocs\Citrus County\Gas Mon\2018\18Q3\18Q3\_Citrus\_Gas Mon\_Letter.docx

xc: Ray Oates, Citrus County

**LANDFILL GAS MONITORING RESULTS  
CITRUS COUNTY CENTRAL LANDFILL**

**Third Quarter 2018**

**General Data**

|                          |   |                   |   |
|--------------------------|---|-------------------|---|
| Date:                    | 7/27/2018 & 7/30/2018                   | Sampler:          | Steve Messick                                     |
| Time:                    | 08:30 on 7/27/2018 & 08:45 on 7/30/2018 | Sky Conditions:   | Scattered Clouds on 7/27/2018 & Hazy on 7/30/2018 |
| Air Temperature (deg C): | 27° on 7/27/2018 & 29° on 7/30/2018     | Measuring Device: | Eagle RKI (SN E084039)                            |

**Sampling Data**

| Station I.D. | Date Sampled | Time Sampled | Depth of Intake (Feet) | O2 %Volume | CO2 %Volume | Methane                              |   | Station Type |
|--------------|--------------|--------------|------------------------|------------|-------------|--------------------------------------|---|--------------|
|              |              |              |                        |            |             | Peak Recorded Concentration as % LEL | Peak Recorded Concentration as % Volume |              |
| GP-1         | 7/27/2018    | 11:43        | 20                     | 18.6       | 2.0         | 0.0                                  | -                                       | Gas Well     |
| GP-1         | 7/27/2018    | 11:45        | 40                     | 18.0       | 2.6         | 0.0                                  | -                                       | Gas Well     |
| GP-2         | 7/27/2018    | 11:00        | 20                     | 14.3       | 3.0         | 0.0                                  | -                                       | Gas Well     |
| GP-2         | 7/27/2018    | 11:02        | 40                     | 11.7       | 6.0         | 0.0                                  | -                                       | Gas Well     |
| GP-3         | 7/27/2018    | 11:14        | 20                     | 18.7       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-3         | 7/27/2018    | 11:16        | 40                     | 18.4       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-4         | 7/30/2018    | 10:53        | 20                     | 18.2       | 2.6         | 0.0                                  | -                                       | Gas Well     |
| GP-4         | 7/30/2018    | 10:56        | 40                     | 17.6       | 3.8         | 0.0                                  | -                                       | Gas Well     |
| GP-5         | 7/30/2018    | 11:08        | 20                     | 18.3       | 2.4         | 0.0                                  | -                                       | Gas Well     |
| GP-5         | 7/30/2018    | 11:10        | 40                     | 17.7       | 3.6         | 0.0                                  | -                                       | Gas Well     |
| GP-6         | 7/30/2018    | 11:14        | 20                     | 18.7       | 2.0         | 0.0                                  | -                                       | Gas Well     |
| GP-6         | 7/30/2018    | 11:16        | 40                     | 18.6       | 2.4         | 0.0                                  | -                                       | Gas Well     |
| GP-7         | 7/30/2018    | 11:20        | 20                     | 19.0       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-7         | 7/30/2018    | 11:23        | 40                     | 19.0       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-8         | 7/30/2018    | 11:27        | 20                     | 18.9       | 1.4         | 0.0                                  | -                                       | Gas Well     |
| GP-8         | 7/30/2018    | 11:29        | 40                     | 18.3       | 1.6         | 0.0                                  | -                                       | Gas Well     |
| GP-9         | 7/30/2018    | 11:35        | 20                     | 19.4       | 1.6         | 0.0                                  | -                                       | Gas Well     |
| GP-9         | 7/30/2018    | 11:37        | 40                     | 19.2       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-10        | 7/27/2018    | 14:41        | 20                     | 13.0       | 7.2         | 0.0                                  | -                                       | Gas Well     |
| GP-10        | 7/27/2018    | 14:43        | 40                     | 12.4       | 7.6         | 0.0                                  | -                                       | Gas Well     |
| GP-11        | 7/27/2018    | 14:33        | 20                     | 18.3       | 1.6         | 0.0                                  | -                                       | Gas Well     |
| GP-11        | 7/27/2018    | 14:35        | 40                     | 15.8       | 2.2         | 0.0                                  | -                                       | Gas Well     |
| GP-12        | 7/27/2018    | 14:24        | 25                     | 19.3       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-12        | 7/27/2018    | 14:26        | 50                     | 19.2       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-12        | 7/27/2018    | 14:28        | 75                     | 19.1       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-13        | 7/27/2018    | 14:12        | 25                     | 18.0       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-13        | 7/27/2018    | 14:14        | 50                     | 17.5       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-13        | 7/27/2018    | 14:16        | 75                     | 17.4       | 2.0         | 0.0                                  | -                                       | Gas Well     |
| GP-14        | 7/27/2018    | 14:05        | 25                     | 19.3       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| GP-14        | 7/27/2018    | 14:07        | 50                     | 19.1       | 1.2         | 0.0                                  | -                                       | Gas Well     |

**LANDFILL GAS MONITORING RESULTS  
CITRUS COUNTY CENTRAL LANDFILL**

**Third Quarter 2018**

**General Data**

|                          |   |                   |   |
|--------------------------|---|-------------------|---|
| Date:                    | 7/27/2018 & 7/30/2018                   | Sampler:          | Steve Messick                                     |
| Time:                    | 08:30 on 7/27/2018 & 08:45 on 7/30/2018 | Sky Conditions:   | Scattered Clouds on 7/27/2018 & Hazy on 7/30/2018 |
| Air Temperature (deg C): | 27° on 7/27/2018 & 29° on 7/30/2018     | Measuring Device: | Eagle RKI (SN E084039)                            |

**Sampling Data**

| Station I.D.   | Date Sampled | Time Sampled | Depth of Intake (Feet) | O2 %Volume | CO2 %Volume | Methane                              |   | Station Type |
|----------------|--------------|--------------|------------------------|------------|-------------|--------------------------------------|---|--------------|
|                |              |              |                        |            |             | Peak Recorded Concentration as % LEL | Peak Recorded Concentration as % Volume |              |
| GP-14          | 7/27/2018    | 14:09        | 75                     | 19.0       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| GP-15          | 7/27/2018    | 13:43        | 25                     | 19.4       | 1.4         | 0.0                                  | -                                       | Gas Well     |
| GP-15          | 7/27/2018    | 13:45        | 50                     | 19.3       | 1.4         | 0.0                                  | -                                       | Gas Well     |
| GP-15          | 7/27/2018    | 13:47        | 75                     | 19.4       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| GP-16          | 7/27/2018    | 13:33        | 25                     | 18.8       | 1.6         | 0.0                                  | -                                       | Gas Well     |
| GP-16          | 7/27/2018    | 13:35        | 50                     | 18.8       | 1.6         | 0.0                                  | -                                       | Gas Well     |
| GP-16          | 7/27/2018    | 13:37        | 75                     | 18.8       | 1.6         | 0.0                                  | -                                       | Gas Well     |
| GP-17          | 7/27/2018    | 13:20        | 25                     | 15.6       | 4.2         | 0.0                                  | -                                       | Gas Well     |
| GP-17          | 7/27/2018    | 13:22        | 50                     | 14.7       | 4.6         | 0.0                                  | -                                       | Gas Well     |
| GP-17          | 7/27/2018    | 13:24        | 75                     | 14.7       | 4.2         | 0.0                                  | -                                       | Gas Well     |
| GP-18          | 7/27/2018    | 13:08        | 25                     | 19.4       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| GP-18          | 7/27/2018    | 13:10        | 50                     | 19.3       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| GP-18          | 7/27/2018    | 13:12        | 75                     | 19.3       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| GP-19          | 7/27/2018    | 12:59        | 25                     | 19.8       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| GP-19          | 7/27/2018    | 13:01        | 50                     | 19.6       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| GP-19          | 7/27/2018    | 13:03        | 75                     | 19.8       | 1.0         | 0.0                                  | -                                       | Gas Well     |
| GP-20          | 7/27/2018    | 13:40        | 105                    | 17.4       | 1.4         | 0.0                                  | -                                       | Gas Well     |
| GP-21          | 7/27/2018    | 13:14        | 115                    | 16.8       | 0.0         | 0.0                                  | -                                       | Gas Well     |
| GP-22          | 7/27/2018    | 11:47        | 70                     | 16.9       | 0.0         | 0.0                                  | -                                       | Gas Well     |
| GP-23          | 7/27/2018    | 11:50        | 100                    | 8.4        | 2.8         | 0.0                                  | -                                       | Gas Well     |
| GP-24          | 7/27/2018    | 11:11        | 70                     | 12.3       | 0.0         | 0.0                                  | -                                       | Gas Well     |
| GP-25          | 7/27/2018    | 11:08        | 100                    | 19.0       | 0.0         | 0.0                                  | -                                       | Gas Well     |
| GP-26          | 7/27/2018    | 11:19        | 70                     | 15.9       | 3.0         | 0.0                                  | -                                       | Gas Well     |
| GP-27          | 7/27/2018    | 11:21        | 100                    | 15.4       | 3.0         | 0.0                                  | -                                       | Gas Well     |
| GP-28          | 7/30/2018    | 11:01        | 70                     | 18.1       | 1.8         | 0.0                                  | -                                       | Gas Well     |
| GP-29          | 7/30/2018    | 11:04        | 100                    | 18.8       | 0.0         | 0.0                                  | -                                       | Gas Well     |
| GP-30          | 7/27/2018    | 13:51        | 105                    | 19.0       | 1.2         | 0.0                                  | -                                       | Gas Well     |
| Admin Building | 7/27/2018    | 8:36         | -                      | 20.9       | 0.0         | 0.0                                  | -                                       | Structure    |
| Mod Bldg       | 7/27/2018    | 8:48         | -                      | 20.9       | 0.0         | 0.0                                  | -                                       | Structure    |
| Shop           | 7/27/2018    | 8:44         | -                      | 20.9       | 0.0         | 0.0                                  | -                                       | Structure    |

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CITRUS COUNTY CENTRAL LANDFILL**

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**Sampling Data**

| Station I.D.              | Date Sampled | Time Sampled | Depth of Intake (Feet) | O2 %Volume | CO2 %Volume | Methane                              |   |   | Station Type |
|---------------------------|--------------|--------------|------------------------|------------|-------------|--------------------------------------|---|---|--------------|
|                           |              |              |                        |            |             | Peak Recorded Concentration as % LEL | Peak Recorded Concentration as % Volume |   |              |
| Scale House               | 7/27/2018    | 8:40         | -                      | 20.9       | 0.0         | 0.0                                  | -                                       | - | Structure    |
| Firing Range              | 7/27/2018    | 9:15         | -                      | 20.9       | 0.0         | 0.0                                  | -                                       | - | 7 Structures |
| Haz Waste Drop off Center | 7/27/2018    | 8:58         | -                      | 20.9       | 0.0         | 0.0                                  | -                                       | - | 4 Structures |

**LANDFILL GAS MONITORING RESULTS  
CITRUS COUNTY CENTRAL LANDFILL**

**Third Quarter 2018**

**General Data**

|                          |   |                   |   |
|--------------------------|---|-------------------|---|
| Date:                    | 7/27/2018 & 7/30/2018                   | Sampler:          | Steve Messick                                     |
| Time:                    | 08:30 on 7/27/2018 & 08:45 on 7/30/2018 | Sky Conditions:   | Scattered Clouds on 7/27/2018 & Hazy on 7/30/2018 |
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**Sampling Data**

| Station ID. | Date Sampled | Time Sampled | O2 %Volume | CO2 %Volume | Methane                              |   | Station Type     |
|-------------|--------------|--------------|------------|-------------|--------------------------------------|---|------------------|
|             |              |              |            |             | Peak Recorded Concentration as % LEL | Peak Recorded Concentration as % Volume |                  |
| MW-1R       | 7/27/2018    | 11:38        | 12.1       | 13.2        | 0.0                                  | -                                       | Groundwater Well |
| MW-2        | 7/27/2018    | 12:52        | 18.8       | 2.2         | 0.0                                  | -                                       | Groundwater Well |
| MW-3        | 7/30/2018    | 9:08         | 6.1        | 29.0        | -                                    | 41.5                                    | Groundwater Well |
| MW-5        | 7/30/2018    | 9:31         | 3.5        | 23.6        | -                                    | 8.5                                     | Groundwater Well |
| MW-6        | 7/30/2018    | 9:27         | 3.4        | 31.0        | -                                    | 66.5                                    | Groundwater Well |
| MW-7        | 7/30/2018    | 9:00         | 7.8        | 25.2        | -                                    | 35.5                                    | Groundwater Well |
| MW-8R       | 7/27/2018    | 9:47         | 8.9        | 13.6        | 0.0                                  | -                                       | Groundwater Well |
| MW-9        | 7/27/2018    | 9:53         | 9.0        | 12.2        | 0.0                                  | -                                       | Groundwater Well |
| MW-10       | 7/27/2018    | 10:46        | 9.7        | 17.0        | 0.0                                  | -                                       | Groundwater Well |
| MW-11       | 7/30/2018    | 10:42        | 19.8       | 0.4         | 0.0                                  | -                                       | Groundwater Well |
| MW-12       | 7/30/2018    | 10:29        | 12.9       | 5.0         | 0.0                                  | -                                       | Groundwater Well |
| MW-13       | 7/30/2018    | 10:12        | 16.6       | 1.8         | 0.0                                  | -                                       | Groundwater Well |
| MW-14       | 7/30/2018    | 10:05        | 6.2        | 14.4        | 38.0                                 | -                                       | Groundwater Well |
| MW-15       | 7/30/2018    | 9:59         | 5.0        | 15.6        | 44.0                                 | -                                       | Groundwater Well |
| MW-16       | 7/30/2018    | 9:19         | 4.8        | 28.4        | -                                    | 60.0                                    | Groundwater Well |
| MW-17       | 7/30/2018    | 9:51         | 3.6        | 23.6        | -                                    | 8.5                                     | Groundwater Well |
| MW-18       | 7/27/2018    | 10:33        | 10.1       | 10.8        | 0.0                                  | -                                       | Groundwater Well |
| MW-18D      | 7/27/2018    | 10:28        | 13.1       | 7.4         | 0.0                                  | -                                       | Groundwater Well |
| MW-19       | 7/27/2018    | 10:43        | 17.1       | 2.2         | 0.0                                  | -                                       | Groundwater Well |
| MW-19D      | 7/27/2018    | 10:40        | 10.4       | 10.2        | 0.0                                  | -                                       | Groundwater Well |
| MW-20       | 7/30/2018    | 8:49         | 6.8        | 21.0        | -                                    | 18.0                                    | Groundwater Well |
| MW-21       | 7/27/2018    | 10:10        | 3.4        | 20.2        | -                                    | 5.0                                     | Groundwater Well |
| MW-22       | 7/27/2018    | 10:15        | 3.5        | 20.0        | -                                    | 5.0                                     | Groundwater Well |
| MW-AA       | 7/30/2018    | 10:22        | 18.3       | 2.4         | 0.0                                  | -                                       | Groundwater Well |
| MW-B        | 7/27/2018    | 9:33         | 18.4       | 7.0         | 0.0                                  | -                                       | Groundwater Well |
| MW-E        | 7/30/2018    | 10:36        | 15.6       | 3.8         | 0.0                                  | -                                       | Groundwater Well |
| PZ-1        | 7/27/2018    | 9:57         | 20.7       | 0.0         | 0.0                                  | -                                       | Groundwater Well |
| PZ-2        | 7/27/2018    | 10:22        | 11.2       | 7.6         | 0.0                                  | -                                       | Groundwater Well |

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

SITE NAME Citrus Co. Central Lf. DATE 7/27/18  
 INSTRUMENT (MAKE/MODEL#) Eagle Multi-Gas Detector INSTRUMENT # GNV 80023\*  
 Instrument Calibration Date 11/11/16 Reference Meter Book Eagle Meter Book 1

PARAMETER: [check only one]

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CI     DO     OTHER LANDFILL GAS

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 15.33 % Methane (Volume), 15.04% CO<sub>2</sub> (Volume), Balance Nitrogen  
 Standard Source Airgas Lot # 122-4011/0286-1  
 Standard B Zero Air (0 % Methane) (0% CO<sub>2</sub>) ( 21.0 % O<sub>2</sub>)  
 Standard Source Airgas Lot # 55-400483127-1  
 Standard C % LEL Methane, % CO<sub>2</sub> (Volume), 0% O<sub>2</sub> (Volume), Bal Nitrogen  
 Standard Source \_\_\_\_\_ Lot # \_\_\_\_\_

| DATE<br>(yy/mm/dd) | TIME<br>(hr:min) | STD<br>(A,<br>B,<br>C) | CH <sub>4</sub><br>STD<br>VALUE<br>(% Vol) | CO <sub>2</sub><br>STD<br>VALUE<br>(% Vol) | O <sub>2</sub><br>STD<br>VALUE<br>(% Vol) | INSTRUMENT RESPONSE (%)<br>DEVIATION (LIMITS +/- 5%) |     |                 |     |                |     | CALIB-<br>RATED<br>(YES,<br>NO) | TYPE<br>(INIT,<br>CONT) | SAMPLER<br>INITIALS |
|--------------------|------------------|------------------------|--|--|---|--|-----|-----------------|-----|----------------|-----|---------------------------------|-------------------------|---------------------|
|                    |                  |                        |  |  |   | CH <sub>4</sub>                                      |     | CO <sub>2</sub> |     | O <sub>2</sub> |     |                                 |                         |                     |
|                    |                  |                        |  |  |   | RES  | DEV | RES             | DEV | RES            | DEV |                                 |                         |                     |
| 18/07/27           | 0819             | A                      | 15.33                                      | 15.04                                      | —   | 15.0   | <3  | 14.6            | <3  | —              | —   | Yes                             | Init.                   | Am                  |
|                    | 0822             | B                      | —  | —  | 21.0                                      | —  | —   | —               | —   | 20.9           | <1  | Yes                             | Init.                   | Am                  |
|                    | 1450             | A                      | 15.33                                      | 15.04                                      | —   | 15.5   | <2  | 15.6            | <4  | —              | —   | Yes                             | Cont.                   | Am                  |
|                    | 1454             | B                      | —  | —  | 21.0                                      | —  | —   | —               | —   | 20.9           | <1  | Yes                             | Cont.                   | Am                  |
| 18/07/30           | 0841             | A                      | 15.33                                      | 15.04                                      | —   | 15.0   | <3  | 15.0            | <1  | —              | —   | Yes                             | Init.                   | Am                  |
|                    | 0845             | B                      | —  | —  | 21.0                                      | —  | —   | —               | —   | 20.9           | <1  | Yes                             | Init.                   | Am                  |
|                    | 1149             | A                      | 15.33                                      | 15.04                                      | —   | 15.0   | <3  | 15.4            | <1  | —              | —   | Yes                             | Cont.                   | Am                  |
|                    | 1152             | B                      | —  | —  | 21.0                                      | —  | —   | —               | —   | 20.9           | <1  | Yes                             | Cont.                   | Am                  |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |
|                    |                  |                        |  |  |   |  |     |                 |     |                |     |                                 |                         |                     |

\* Eagle SN E084039