

Johnson, Sabrina O

From: Candia Mulhern <cmulhern@pascocountyfl.net>
Sent: Thursday, October 3, 2019 2:58 PM
To: SWD_Waste
Cc: Charles Cullen; John Power; Justin G. Roessler
Subject: 2019 QIII Res Rec Gas Monitoring Results
Attachments: 2019_10_01_Res_Rec_Gas Monitoring_Submittal.pdf

Attached are the results of gas monitoring for QIII, 2019 at the Pasco County Resource Recovery Site.
If you have any questions please feel free to contact me.



Candia E. Mulhern
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Pasco County
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"Serving our community to create a better future."



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CUSA18A7



Pasco County Utilities Services Branch
Environmental Laboratory
8864 Government Dr.
New Port Richey, FL 34654

Office (727) 847-8902
Fax (727) 847-8112
DHRS #E44123

October 3, 2019

Florida Department of
Environmental Protection
13051 N. Telecom Pkwy.
Temple Terrace, FL 33637

RE: Pasco County Resource Recovery
WACS ID 45799
Quarter III, 2019 Gas Monitoring

To Whom It May Concern:

Enclosed please find the results of gas monitoring conducted at Pasco County Resource Recovery as required in the permit for this facility. The gas monitoring was conducted using a CES Landtec 5000 Gas Meter. Calibration of the instrument was conducted prior to field analysis using a 40% methane gas and 50% LEL methane gas. The meter was allowed to run until a stable reading was obtained. Readings recorded at the site were $\leq 0.10\%$ LEL.

This completes the Quarter III, 2019 gas monitoring requirement at this facility. If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern
Laboratory Manager

ENC.

cc: Charles Cullen, Utilities Engineering Director
John Power, Solid Waste Director
Justin Roessler, Solid Waste Deputy Director

UTILITIES ENVIRONMENTAL LABORATORY

727-847-8902 | Environmental Laboratory | 8864 Government Dr. | New Port Richey, FL 34654



Pasco County Utilities Environmental Laboratory Report

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86126**

Sample ID: 4MW1 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 9:20

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 9:20 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 9:20 | GST | 12.7 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards



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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Sample Number: **AC86127**

Sample ID: 2MW2 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:25

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:27 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:27 | GST | 17.02 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86128**

Sample ID: 4MW2 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:23

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:23 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:23 | GST | 17.25 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86129**

Sample ID: 2MW4 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:50

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:50 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:50 | GST | DRY | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC86130**

Sample ID: 4MW4 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:40

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

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| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:40 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:40 | GST | 18.26 | D | Feet | 0 |

Analysis Comments:

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC86131**

Sample ID: **2MW5 @ RESREC**

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 9:05

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

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| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 9:05 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 9:05 | GST | DRY | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86132**

Sample ID: 4MW5 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 9:00

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 9:00 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 9:00 | GST | 15.71 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Sample Number: **AC86133**

Sample ID: 2MW6 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:30

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:30 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:30 | GST | DRY | D | Feet | 0 |

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Sample Number: **AC86134**

Sample ID: 4MW6 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:35

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:35 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:35 | GST | 19.15 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

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CLIENT/SAMPLE INFORMATION

West Pasco

Class III Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86135**

Sample ID: 2MW7 @ CLASS III

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:00

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:00 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:00 | GST | DRY | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

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CLIENT/SAMPLE INFORMATION

West Pasco

Class III Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86136**

Sample ID: 2MW8 @ CLASS III

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 0:00

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:25 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:25 | GST | DRY | D | Feet | 0 |

Analysis Comments:

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I = Reported value is greater than or equal to the detection limit, but less than PQL.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class III Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86137**

Sample ID: 2MW10 @ CLASS III

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:04

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:04 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:04 | GST | DRY | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Sample Number: **AC86138**

Sample ID: 4MW11D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 9:50

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 9:50 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 9:50 | GST | 29.09 | D | Feet | 0 |

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Sample Number: **AC86139**

Sample ID: 4MW12D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:00

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:00 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 10:00 | GST | 20.04 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86140**

Sample ID: 2MW13 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:18

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

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| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:18 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 10:18 | GST | DRY | D | Feet | 0 |

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Sample Number: **AC86141**

Sample ID: 4MW13D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:05

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:05 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 10:05 | GST | 19.45 | D | Feet | 0 |

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2016 TNI Standards



Pasco County Utilities Environmental Laboratory Report

8864 Government Drive

New Port Richey, FL 34654

Phone: (727) 847-8902 Fax: (727) 847-8112

Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86142**

Sample ID: 4MW14D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:10

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:10 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 10:10 | GST | 16.65 | D | Feet | 0 |

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86143**

Sample ID: 2MW15 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 8:14

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 8:14 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 8:14 | GST | 16.98 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86144**

Sample ID: 2MW17S @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 9:30

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 9:30 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 9:30 | GST | 20.8 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Sample Number: **AC86145**

Sample ID: 2MW18D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 9:40

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 9:40 | GST | 0.0 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 9:40 | GST | 30.29 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86146**

Sample ID: 2MW19 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 9:45

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 9:45 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 9:45 | GST | 19.00 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86147**

Sample ID: GMP1 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:45

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|--------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:45 | GST | 0.1 | D | % LEL | 0 |
| Percent Volume Methane | METER | 10/1/2019 | 10:45 | GST | 0 | D | % VOL | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86148**

Sample ID: GMP2 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:50

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|--------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:50 | GST | 0.0 | D | % LEL | 0 |
| Percent Volume Methane | METER | 10/1/2019 | 10:50 | GST | 0.0 | D | % VOL | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 10/3/2019

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC86149**

Sample ID: GMP3 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:32

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|--------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:32 | GST | 0.0 | D | % LEL | 0 |
| Percent Volume Methane | METER | 10/1/2019 | 10:32 | GST | 0.0 | D | % VOL | 0 |

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86150**

Sample ID: GMP4 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:40

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|--------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:40 | GST | 0.0 | D | % LEL | 0 |
| Percent Volume Methane | METER | 10/1/2019 | 10:40 | GST | 0.0 | D | % VOL | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86151**

Sample ID: GMP5 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:30

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|--------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:30 | GST | 0.0 | D | % LEL | 0 |
| Percent Volume Methane | METER | 10/1/2019 | 10:30 | GST | 0.0 | D | % VOL | 0 |

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86152**

Sample ID: GMP6 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 10:35

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|--------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 10:35 | GST | 0.1 | D | % LEL | 0 |
| Percent Volume Methane | METER | 10/1/2019 | 10:35 | GST | 0.0 | D | % VOL | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia E. Mulhern, Laboratory Manager

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Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

West Pasco

Class III Landfill

Hays Road

Shady Hills, Fl

John Power

Report Date: 10/3/2019

Sample Number: **AC86153**

Sample ID: LF OPERATIONS OFF @ CLASS III

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 11:03

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|--------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 11:03 | GST | 0.0 | D | % LEL | 0 |
| Percent Volume Methane | METER | 10/1/2019 | 11:03 | GST | 0.0 | D | % VOL | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

West Pasco Landfill

Report Date: 10/3/2019

Hays Road
Shady Hills, FL
John Power

Sample Number: **AC86154**

Sample ID: SCALE HOUSE @ CLASS III

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/1/2019

Time Sampled: 11:00

Time Received: 13:40

Sampled By:

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|--------|-----------|-------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 11:00 | GST | 0.0 | D | % LEL | 0 |
| Percent Volume Methane | METER | 10/1/2019 | 11:00 | GST | 0.0 | D | % VOL | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 10/3/2019

Sample Number: **AC86233**

Sample ID: 2MW1 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 10/1/2019

Date Received: 10/2/2019

Time Sampled: 9:15

Time Received: 13:40

Sampled By: GTORREY

Received By: LAB

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

| Analysis | Method | Date | Time | By | Result | Qualifier | Unit | Detection Limit |
|-------------------------------|---------|-----------|------|-----|--------|-----------|-------|-----------------|
| Percent Lower Explosive Limit | METER | 10/1/2019 | 9:15 | GST | 0.1 | D | % LEL | 0 |
| Water Level | DEP-SOP | 10/1/2019 | 9:15 | GST | 12.2 | D | Feet | 0 |

Analysis Comments:

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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