Hughes, Rhonda

From:	Carissa A. Dennison <cdennison@pascocountyfl.net></cdennison@pascocountyfl.net>
Sent:	Wednesday, November 30, 2022 3:58 PM
То:	SWD_Waste
Cc:	Candia Mulhern; Justin G. Roessler; Adolfo A. Gonzalez
Subject:	Resource Recovery (45799) Gas Monitoring - Qtr IV, 2022
Attachments:	2022_11_23_Res_Rec_Gas_Monitoring_QIV_Submittal.pdf

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good Afternoon,

Attached are the results of gas monitoring conducted at the Resource Recovery site (45799) for Quarter IV, 2022. If you have any questions feel free to contact me.

Thank you,



Carissa Dennison Assistant Laboratory Manager Utilities Environmental Laboratory Pasco County P 727-847-8902 F 727-847-8112 8864 Government Drive New Port Richey, FL 34654 cdennison@pascocountyfl.net

"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

November 30, 2022

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

RE: Pasco County Resource Recovery WACS ID 45799 Quarter IV, 2022 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. The meter was allowed to run until a stable reading was obtained.

This completes the Quarter IV, 2022 gas monitoring requirement at this facility. If you have any questions please feel free to contact me.

Sincerely,

lander I Mulhe

Candia E. Mulhern Laboratory Manager

ENC.

cc: Adolfo A. González, P.E., LEED AP, Utilities Engineering Director Justin Roessler, Solid Waste Deputy Director

UTILITIES ENVIRONMENTAL LABORATORY

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

CALIBRATION	INFORMATIO	N: GAS MET	ER: GEM5000	S/N: G50	1365 F	ACTORY CAL	IBRATED: JU	LY 2022 CALIB DUE: JULY 2023
Calibration G	AS: QED GAS	Lo	† #4130705		Expires: 1	1/01/2024	Field Cal	ibration Date: 11/23/2022
Start Calib: T\	/ = 15% CH4	Observed	Value = 15	% 1	Meter Cal	ibrated:	Yes Calib	Time: 07:15 Analyst: JS
Ending Calib:	TV = 15% CI	H4 Obser	ved Value =	15% Me	eter Calibi	rated: Ye	es Calib T	ime: 15:30 Analyst: JS
COMMENTS:								
WELL ID	DATE	TIME	WLEV (ft)	% CH4	% LEL	Analyst	Lab ID #	Comments
2MW-1	23-Nov	13:56	16.77	0.0	0.0	JS	AD33626	
4MW-1	23-Nov	13:52	16.94	0.0	0.0	JS	AD33627	
2MW-2	23-Nov	10:48	22.06	0.0	0.0	JS	AD33628	
4MW-2	23-Nov	10:51	22.32	0.0	0.0	JS	AD33629	
2MW-4	23-Nov	13:10	DRY	0.0	0.0	JS	AD33630	
4MW-4	23-Nov	13:01	23.86	0.0	0.0	JS	AD33631	
2MW-5	23-Nov	13:31	DRY	0.0	0.0	JS	AD33632	
4MW-5	23-Nov	13:34	21.05	0.0	0.0	JS	AD33633	
2MW-6	23-Nov	10:38	24.89	0.0	0.0	JS	AD33634	
4MW-6	23-Nov	10:34	24.45	0.0	0.0	SL	AD33635	
2MW-7	23-Nov	09:30	DRY	0.0	0.0	JS	AD33636	
2MW-8	23-Nov	09:51	17.81	0.0	0.0	SL	AD33637	
2MW-10	23-Nov	09:40	DRY	0.0	0.0	SL	AD33638	
4MW-11D	23-Nov	08:40	34.37	0.0	0.0	SL	AD33639	
4MW-12D	23-Nov	08:49	25.27	0.0	0.0	SL	AD33640	
2MW-13D	23-Nov	09:00	24.69	0.0	0.0	SL	AD33641	
4MW-13D	23-Nov	09:06	21.05	0.0	0.0	SL	AD33642	
4MW-14D	23-Nov	09:19	21.87	0.0	0.0	SL	AD33643	
2MW-15DA	23-Nov	08:32	21.92	0.0	0.0	JS	AD33644	
2MW-17S	23-Nov	12:37	26.16	0.0	0.0	SL	AD33645	
2MW-18D	23-Nov	11:27	25.61	0.0	0.0	JS	AD33646	
2MW-19D	23-Nov	11:37	24.37	0.0	0.0	JS	AD33647	
GMP-1	23-Nov	11:16		0.0	0.0	JS	AD33648	
GMP-2	23-Nov	11:11		0.0	0.0	JS	AD33649	
GMP-3	23-Nov	11:00		0.0	0.0	JS	AD33650	
GMP-4	23-Nov	11:32		0.0	0.0	JS	AD33651	
GMP-5	23-Nov	11:43		0.0	0.0	JS	AD33652	
GMP-6	23-Nov	12:00		0.0	0.0	SL	AD33653	
LF OpOFF	23-Nov	13:51		0.0	0.0	SL	AD33654	
Scalehouse	23-Nov	14:10		0.0	0.0	SL	AD33655	



Hours: Mon-Fri 8am-5pm

Report Date: 11/28/2022

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Contacts: Annamarie Cangialosi, Administrative Secretary Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Amelucie	Math ad	Dete	Time Du	Beault Qualifier Unit De	testion Limit
REPORT OF ANAL	LYSES These results	relate only to the s	ample indicated above and	meet all requirements of the 2016 TNI standa	ards.
			Delivered By:	JS	
Sampled By:	J. STURM		Received By:	GT	
Time Sampled:	13:56		Time Received:	15:07	
Date Sampled:	11/23/2022		Date Received:	11/23/2022	
Sample Method:	Pumped		Sample Matrix:	GAS	
Sample Number:	AD33626		Sample ID:	2MW1 @ RESREC	

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Volume Methane	METER	11/23/2022	13:56	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin	METER	11/23/2022	13:56	JS	0.0	D	% LEL	0
Water Level (Static)	DEP-SOP	11/23/2022	13:56	JS	16.77	D	Feet	0

Analysis Comments

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

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

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

Canto Z. This

Candia E. Mulhern, Laboratory Manager

MCL=Maximum Contaminant Level

State Laboratory ID: E44123 EPA Lab Code: FL00137

Page 1 of 1

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Sample Number:	AD33627	Sample ID:	4MW1 @ RESREC	
Justin G. Roessler				
Shady Hills, Fl				
Hays Road				
Class I Landfill				
Resource Recovery			Report Date: 11/28/2022	

Sample Method: Date Sampled: Time Sampled: Sampled By: REPORT OF ANAL	13:52 J. ST	/2022 2 URM	relate only to the sam	Sample Date Re Time Re Receive Delivere	ceived: ceived: d By: d By:	GAS 11/23/ 15:07 GT JS			
Analysis Percent Volume Me Percent Lower Explo	thane osive Lin	Method METER METER	Date 11/23/2022 11/23/2022	Time 13:52 13:52	By JS JS	Result 0.0 0.0	Qualifier D D	Unit % VOL % LEL	Detection Limit 0 0

13:52 JS

16.94

D

Feet

0

11/23/2022

Analysis Comments

Water Level (Static)

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).

DEP-SOP

Cantio 2. Mulhe

Candia E. Mulhern, Laboratory Manager

MCL=Maximum Contaminant Level

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State Laboratory ID: E44123 EPA Lab Code: FL00137



11/23/2022

DEP-SOP

Pasco County Utilities Environmental Laboratory Report

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CLIENT/SAMPLE INFORMATION

Percent Lower Explosive Lin METER

Hours: Mon-Fri 8am-5pm

Resource Recovery Report Date: 11/28/2022 Class I Landfill Hays Road Shady Hills, FI Justin G. Roessler Sample Number: AD33628 Sample ID: 2MW2 @ RESREC Sample Method: Pumped Sample Matrix: GAS Date Sampled:

Date Received: 11/23/2022 Time Sampled: 10:48 Time Received: 15:07 Sampled By: J. STURM Received By: GT **Delivered By:** JS These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards. **REPORT OF ANALYSES** Analysis Method Date Time By Result Qualifier Unit **Detection Limit** Percent Volume Methane METER 11/23/2022 10:48 JS 0.0 % VOL

10:48

10:48

JS

JS

0.0

22.06

11/23/2022

11/23/2022

Analysis Comments

Water Level (Static)

Candia Z. Malhe

D

D

D

% LEL

Feet

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0

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Candia E. Mulhern, Laboratory Manager

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

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MCL=Maximum Contaminant Level



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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery	Report Date:	11/29/2022
Class I Landfill	Report Date.	11/20/2022
Hays Road		
Shady Hills, Fl		

Justin G. Roessler

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By: REPORT OF ANAL	AD33629 Pumped 11/23/20 10:51 J. STUR	22 M	relate only to the samp	Sample Sample Date Re Time Re Receive Delivere	Matrix: ceived: ceived: d By: d By:	GAS 11/23/ 15:07 GT JS			tandards.
Analysis Percent Lower Expl Percent Volume Mer Water Level (Static)	osive Lin M thane M	lethod ETER ETER EP-SOP	Date 11/23/2022 11/23/2022 11/23/2022	Time 10:51 10:51 10:51	By JS JS	Result 0.0 0.0 22 32	Qualifier D D	Unit % LEL % VOL	Detection Limit 0 0

10:51 JS

11/23/2022

Analysis Comments

Candia Z. Mulher

Candia E. Mulhern, Laboratory Manager

22.32

D

Feet

0

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

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MCL=Maximum Contaminant Level



DEP-SOP

Pasco County Utilities Environmental Laboratory Report

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CLIENT/SAMPLE INFORMATION

Percent Lower Explosive Lin METER

Hours: Mon-Fri 8am-5pm

Resource Recover Class I Landfill	у		Report Date: 11/28/2022
Hays Road			
Shady Hills, Fl			
Justin G. Roessler			
Sample Number: Sample Method:	AD33630 Pumped	Sample ID: Sample Matrix:	2MW4 @ RESREC
Date Sampled:	11/23/2022	Date Baseline di	GAS

Time Sampled: 1 Sampled By: J	1/23/2022 3:10 . STURM		Date Re Time Re Receive Delivere	eceived: d By: d By:	11/23/ 15:07 GT JS			
REPORT OF ANALYSE Analysis Percent Volume Methane	Method METER	Date 11/23/2022	Time 13:10	d above and By JS	d meet all requ Result 0.0	irements of the Qualifier D	2016 TNI s Unit % VOL	Detection Limit

11/23/2022 13:10 JS

13:10 JS

0.0

DRY

D

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% LEL

Feet

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11/23/2022

Analysis Comments

Water Level (Static)

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).

Condia 2. Mille

Candia E. Mulhern, Laboratory Manager

MCL=Maximum Contaminant Level

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State Laboratory ID: E44123 EPA Lab Code: FL00137



Hours: Mon-Fri 8am-5pm

Report Date: 11/28/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

REPORT OF ANAL	_YSES These results relate	only to the sample indicated above and r	meet all requirements of the 2016 TNI standards.	
		Delivered By:	JS	
Sampled By:	J. STURM	Received By:	GT	
Time Sampled:	13:01	Time Received:	15:07	
Date Sampled:	11/23/2022	Date Received:	11/23/2022	
Sample Method:	Pumped	Sample Matrix:	GAS	
Sample Number:	AD33631	Sample ID:	4MW4 @ RESREC	

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Volume Methane	METER	11/23/2022	13:01	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin		11/23/2022		JS	0.0	D	% LEL	0
Water Level (Static)	DEP-SOP	11/23/2022	13:01	JS	23.86	D	Feet	0

Analysis Comments

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

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Candia 2. Marchen

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Report Date: 11/28/2022

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

			neer an requirements of the 2010 This standards.
REPORT OF ANAL	YSES These results re	elate only to the sample indicated above and r	meet all requirements of the 2016 TNI standards.
		Delivered By:	JS
Campieu by.	J. STURM	Received By:	GT
Time Sampled: Sampled By:	13:31	Time Received:	15:07
Date Sampled:	11/23/2022	Date Received:	11/23/2022
•	Pumped	Sample Matrix:	GAS
Sample Number: Sample Method:	AD33632	Sample ID:	2MW5 @ RESREC

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Volume Methane	METER	11/23/2022	13:31	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin	METER	11/23/2022	13:31	JS	0.0	D	% LEL	Õ
Water Level (Static)	DEP-SOP	11/23/2022	13:31	JS	DRY	D	Feet	0 0

Analysis Comments

Candia E. Machen

Candia E. Mulhern, Laboratory Manager

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

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

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Hours: Mon-Fri 8am-5pm

Report Date: 11/28/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
REPORT OF ANAL	YSES These resul	ts relate only to the s	ample indicate	d above and	meet all requ	irements of the	2016 TNI	standards.
			Delivere	d By:	JS			
Sampled By:	J. STURM		Receive	d By:	GT			
Time Sampled:	13:34		Time Re	eceived:	15:07			
Date Sampled:	11/23/2022		Date Re	eceived:	11/23/	2022		
Sample Method:	Pumped		Sample	Matrix:	GAS			
Sample Number:	AD33633		Sample	ID:	4MWS	5 @ RESRE	C	

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection
Percent Volume Methane	Meter	11/23/2022	13:34	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin	Meter	11/23/2022	13:34	JS	0.0	D	% LEL	0
Water Level (Static)	Dep-sop	11/23/2022	13:34	JS	21.05	D	Feet	0

Analysis Comments

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

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Carlie 2. 1

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Report Date: 11/28/2022 **Class I Landfill** Hays Road Shady Hills, FI Justin G. Roessler Sample Number: AD33634 Sample ID: 2MW6 @ RESREC Sample Method: Dummend

				Sample Date Re Time Re	ceived: ceived:	GAS 11/23/2022 15:07			
REPORT OF ANAL			Received By: GT Delivered By: JS results relate only to the sample indicated above and meet all requirement				irements of the	2016 TNI s	tandards.
Analysis Percent Volume Me Percent Lower Expl		Method METER METER	Date 11/23/2022 11/23/2022	Time 10:38 10:38	By JS JS	Result 0.0 0.0	Qualifier D	Unit % VOL	Detection Limit

10:38 JS

24.89

D

D

% LEL

Feet

0

0

11/23/2022

Analysis Comments

Water Level (Static)

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.

DEP-SOP

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

Candia 2. Marth

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



GT

JS

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Report Date: 11/28/2022 Class I Landfill Hays Road Shady Hills, FI Justin G. Roessler Sample Number: AD33635 Sample ID: 4MW6 @ RESREC Sample Method: Pumped Sample Matrix: GAS Date Sampled: 11/23/2022 Date Received: 11/23/2022 Time Sampled: 10:34 Time Received: 15:07

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

J. STURM

Analysis Date Method Time By Result Qualifier Unit **Detection Limit** Percent Volume Methane METER 11/23/2022 10:34 JS 0.0 D % VOL 0 Percent Lower Explosive Lin METER 11/23/2022 10:34 JS 0.0 D % LEL 0 Water Level (Static) DEP-SOP 11/23/2022 JS 10:34 24.45 D Feet 0

Received By:

Delivered By:

Analysis Comments

Sampled By:

Candia Z. Mailher

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

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Contacts: Annamarie Cangialosi, Administrative Secretary Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Sample Number:	AD33636	Sample ID:	2MW7 @ CLASS III	
Justin G. Roessler				
Shady Hills, Fl				
Hays Road				
Class III Landfill				
West Pasco			Report Date: 11/28/2022	

Sample Method:	Pumped		Sample			GAS				
Date Sampled:	11/23/2022	23/2022				11/23/2022				
Time Sampled:	09:30		Time Received:		15:07	15:07				
Sampled By:	J. STURM		Receive	d By:	GT					
			Delivere		JS					
REPORT OF ANAL	YSES These	results relate only to the sam	ple indicate	d above and	d meet all requ	irements of the	2016 TNI s	tandards.		
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit		
Percent Lower Expl		11/23/2022	09:30	JS	0.0	D	% LEL	0		
Percent Volume Me	thane METER	11/23/2022	09:30	JS	0.0	D	% VOL	0		

09:30 JS

DRY

D

Feet

0

11/23/2022

Analysis Comments

Water Level (Static)

Cantio 2. Mashe

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.

DEP-SOP

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CLIENT/SAMPLE INFORMATION

Percent Volume Methane METER

DEP-SOP

Hours: Mon-Fri 8am-5pm

West Pasco	Report Date: 11/28/2022
Class III Landfill	
Hays Road	
Shady Hills, Fl	
Justin G. Roessler	

Sample Number: Sample Method: Date Sampled: Time Sampled By: REPORT OF ANAL	09:51 J. ST	oed /2022 URM	relate only to the sam	Sample Sample Date Re Time Re Receive Delivere	Matrix: eceived: eceived: ed By: ed By:	GAS 11/23/ 15:07 GT JS			
Analysis Percent Lower Expl	losive Lin	Method METER	Date 11/23/2022	Time 09:51	By JS	Result 0.0	Qualifier D	Unit % LEL	Detection Limit

JS

0.0

17.81

D

D

% VOL

Feet

0

0

09:51

09:51 JS

11/23/2022

11/23/2022

Analysis Comments

Water Level (Static)

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.

Candia 2. Thilf

Candia E. Mulhern, Laboratory Manager

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

MCL=Maximum Contaminant Level

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State Laboratory ID: E44123 EPA Lab Code: FL00137



GT

JS

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Class III Landfill Hays Road Shady Hills, Fl	y		Report Date: 11/28/2022
Justin G. Roessler	4000000		
Sample Number:	AD33638	Sample ID:	2MW10 @ CLASS III
Sample Method:	Pumped	Sample Matrix:	GAS
Date Sampled:	11/23/2022	Date Received:	11/23/2022
Time Sampled:	09:40	Time Received:	15:07
Sampled By:	J. STURM	Received By:	GT

REPORT OF ANALYSES

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	Ву	Result	Qualifier	Unit	Detection Limit	
Percent Volume Methane	METER	11/23/2022	09:40	JS	0.0	D	% VOL	0	
Percent Lower Explosive Lin		11/23/2022	09:40	JS	0.0	D	% LEL	0	
Water Level (Static)	DEP-SOP	11/23/2022	09:40	JS	DRY	D	Feet	0	

Received By:

Delivered By:

Analysis Comments

Cantio 2. Maile

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

State Laboratory ID: E44123 EPA Lab Code: FL00137



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Phone: (727) 847-8902 Fax: (727) 847-8112
Contacts: Annamarie Cangialosi, Administrative Secretary Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

 Resource Recovery
 Report Date: 11/28/2022

 Class I Landfill
 Hays Road

 Hays Road
 Shady Hills, Fl

 Justin G. Roessler
 Sample Number:

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
REPORT OF ANAL	YSES These resul	ts relate only to the sam	ole indicate	d above ar	nd meet all requ	irements of the	2016 TNI	standards.
			Delivere	d By:	JS			
Sampled By:	J. STURM		Receive	d By:	GT			
Time Sampled:	08:40		Time Re	eceived:	15:07			
Date Sampled:	11/23/2022		Date Re	ceived:	11/23/	2022		
Sample Method:	Pumped		Sample	Matrix:	GAS			
Sample Number:	AD33639		Sample	ID:	4MW1	11D @ RESF	REC	

Analysis Percent Volume Methane	Method METER	Date 11/23/2022	08:40		Result	Qualifier D	Unit % VOL	Detection Limit
Percent Lower Explosive Lin		11/23/2022	08:40	JS	0.0	D	% LEL	0
Water Level (Static)	DEP-SOP	11/23/2022	08:40	JS	34.37	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).

Candia E. Marts

Candia E. Mulhern, Laboratory Manager

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

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-

Hours: Mon-Fri 8am-5pm

Resource Recover	ý		Report Date: 11/28/2022	
Hays Road				
Shady Hills, Fl				
Justin G. Roessler				
Sample Number:	AD33640	Sample ID:	4MW12D @ RESREC	
Sample Method:	Pumped	Sample Matrix	GAS	

REPORT OF ANALY		relate only to the samp	Receive Delivere	d By:	GT JS meet all requ	irements of the	2016 TNI s	standards.
			ole indicate	d above and	meet all requ			standards.
Analysis Percent Lower Explos	Method	Date 11/23/2022	Time 08:49	By JS	Result	Qualifier	Unit % LEL	Detection Limit

11/23/2022

11/23/2022

08:49 JS

08:49 JS

0.0

25.27

D

D

% VOL

Feet

0

0

Analysis Comments

Percent Volume Methane

Water Level (Static)

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.

METER

DEP-SOP

Candia 2. 1

Candia E. Mulhern, Laboratory Manager

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

State Laboratory ID: E44123 EPA Lab Code: FL00137



09:00

J. STURM

Pasco County Utilities Environmental Laboratory Report

15:07

GT

JS

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CLIENT/SAMPLE INFORMATION

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Hours: Mon-Fri 8am-5pm

Resource Recover	ý		Report Date: 11/28/2022	
Hays Road				
Shady Hills, Fl				
Justin G. Roessler				
Sample Number:	AD33641	Sample ID:	2MW13 @ RESREC	
Sample Method:	Pumped	Sample Matrix:	GAS	
Date Sampled:	11/23/2022	Date Received:	11/23/2022	

REPORT OF ANALYSE	S
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Time Sampled:

Sampled By:

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 Lin METER 11/23/2022 09:00 JS 0.0 D % LEL 0 Percent Volume Methane METER JS 11/23/2022 09:00 0.0 % VOL D 0 Water Level (Static) DEP-SOP 11/23/2022 09:00 JS 24.69 D Feet 0

Time Received:

Received By:

Delivered By:

Analysis Comments

Candia 2. This

Candia E. Mulhern, Laboratory Manager

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

MCL=Maximum Contaminant Level

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Sample Number:	AD33642	Sample ID:	4MW13D @ RESREC	
Justin G. Roessler				
Shady Hills, Fl				
Hays Road				
Class I Landfill				
Resource Recover	ý		Report Date: 11/28/2022	

Sample Method: Date Sampled:	Pumped 11/23/2022		Sample Date Re	Matrix:	GAS 11/23/	2022		
Time Sampled: Sampled By:	09:06		Time Re		15:07			
Campion Dy.	J. STURM		Receive Delivere	-	GT JS			
REPORT OF ANAL	YSES These results	relate only to the samp	ole indicate	d above an	nd meet all requ	irements of the	2016 TNI s	tandards.
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Volume Met		11/23/2022	09:06	JS	0.0	D	% VOL	0
Percent Lower Explo	sive Lin METER	11/23/2022	09:06	JS	0.0	D	% LEL	0

09:06 JS

21.05

D

Feet

0

11/23/2022

Analysis Comments

Water Level (Static)

Candia Z. Muthen

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.

DEP-SOP

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

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Report Date: 11/28/2022 Class I Landfill Hays Road Shady Hills, FI Justin G. Roessler

Sample Number:	•		Sample ID:			4MW ²	4MW14D @ RESREC			
Sample Method:	Pumpe	ed				GAS	-			
Date Sampled:	11/23/2	2022				11/23/				
Time Sampled: 09:19					15:07					
Sampled By:	J. STU	RM		Receive	d By:	GT				
				Delivere	d By:	JS				
REPORT OF ANAL	YSES	These results	relate only to the samp	ole indicate	d above and	d meet all requ	irements of the	2016 TNI s	tandards.	
Analysis		Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit	
Percent Volume Me		METER	11/23/2022	09:19	JS	0.0	D	% VOL	0	
Percent Lower Expl	osive Lin	METER	11/23/2022	09:19	JS	0.0	D	% LEL	0	

09:19 JS

21.87

D

Feet

0

11/23/2022

Analysis Comments

Water Level (Static)

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

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

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

DEP-SOP

Candia 2. Thathe

Candia E. Mulhern, Laboratory Manager

MCL=Maximum Contaminant Level

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State Laboratory ID: E44123 EPA Lab Code: FL00137



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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Report Date: 11/28/2022 Class I Landfill Hays Road Shady Hills, FI Justin G. Roessler Sample Number: AD33644 Sample ID: 2MW15 @ RESREC Sample Method: Pumped Sample Matrix: GAS Date Sampled: 11/23/2022 Date Received: 11/23/2022 Time Sampled: 08:32 Time Received: 15:07

REPORT OF ANALYSES

J. STURM

Sampled By:

Analysis Method Date Time By Result Qualifier Unit **Detection Limit** Percent Lower Explosive Lin METER 11/23/2022 08:32 JS 0.0 D % LEL 0 Percent Volume Methane METER 11/23/2022 08:32 JS 0.0 D % VOL 0 Water Level (Static) DEP-SOP 11/23/2022 08:32 JS 21.92 D Feet 0

Received By:

Delivered By:

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

Analysis Comments

 \mathbf{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 Z. Mal

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



12:37

J. STURM

Pasco County Utilities Environmental Laboratory Report

15:07

GT

JS

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Report Date: 11/28/2022 Class I Landfill Hays Road Shady Hills, FI Justin G. Roessler Sample Number: AD33645 Sample ID: 2MW17S @ RESREC Sample Method: Pumped Sample Matrix: GAS Date Sampled: 11/23/2022 Date Received: 11/23/2022

Time Received:

Received By:

Delivered By:

REPORT OF ANALYSES	These results r	elate only to the samp	ole indicate	d above a	nd meet all requ	irements of the	2016 TNI s	tandards.
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Volume Methane	METER	11/23/2022	12:37	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin		11/23/2022	12:37	JS	0.0	D	% LEL	0
Water Level (Static)	DEP-SOP	11/23/2022	12:37	JS	26.16	D	Feet	0

Analysis Comments

Time Sampled:

Sampled By:

 $\ensuremath{\mathsf{U}}$ = indicates that the compound was analyzed for but not detected.

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

MCL=Maximum Contaminant Level

Cantia 2. Marchen

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

 Resource Recovery
 Report Date: 11/28/2022

 Class I Landfill
 Hays Road

 Hays Road
 Shady Hills, Fl

 Justin G. Roessler
 Landfill

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By:	AD33646 Pumped 11/23/2022 11:27 J. STURM		Sample Sample Date Re Time Re Receive Delivere	Matrix: ceived: ceived: d By: d By: d By:	GAS 11/23/ 15:07 GT JS			
Analysis	Method	s relate only to the sam Date	Time	d above and By	Result	Qualifier	2016 TNI s	tandards. Detection Limit
Percent Volume Meth Percent Lower Explo		11/23/2022 11/23/2022	11:27 11:27	JS JS	0.0 0.0	D D	% VOL % LEL	0

11:27 JS

25.61

D

Feet

0

11/23/2022

Analysis Comments

Water Level (Static)

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

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DEP-SOP

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

MCL=Maximum Contaminant Level

Cantio E. Malhe

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



11:37

J. STURM

Pasco County Utilities Environmental Laboratory Report

15:07

GT

JS

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Class Landfill	ý		Report Date: 11/28/2022				
Hays Road							
Shady Hills, Fl							
Justin G. Roessler							
Sample Number:	AD33647	Sample ID:	2MW19 @ RESREC				
Sample Method:	Pumped	Sample Matrix:	GAS				
Date Sampled:	11/23/2022	Date Received:	11/23/2022				

REPORT O	F Al	NAL	YSE	S
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Time Sampled:

Sampled By:

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	Ву	Result	Qualifier	Unit	Detection Limit
Percent Volume Methane	METER	11/23/2022	11:37	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin		11/23/2022	11:37	JS	0.0	D	% LEL	0
Water Level (Static)	DEP-SOP	11/23/2022	11:37	JS	24.37	D	Feet	0

Time Received:

Received By:

Delivered By:

Analysis Comments

Canter Z. Michen

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137



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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Report Date: 11/28/2022 Class I Landfill Hays Road Shady Hills, FI Justin Roessler Sample Number: AD33648 Sample ID: GMP1 @ RESREC Sample Method: Pumped Sample Matrix: GAS Date Sampled: 11/23/2022 Date Received: 11/23/2022 Time Sampled: 11:16 Time Received: 15:07 Sampled By:

REPORT OF ANALYSES

J. STURM

REPORT OF ANALYSES	These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.							tandards.
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Volume Methane	METER	11/23/2022	11:16	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin	METER	11/23/2022	11:16	JS	0.0	D	% LEL	0

Received By:

Delivered By:

Analysis Comments

Cantio 2. Thulle

Candia E. Mulhern, Laboratory Manager

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

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CLIENT/SAMPLE INFORMATION

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Hours: Mon-Fri 8am-5pm

Resource Recover	ý		Report Date:	11/28/2022
Hays Road				
Shady Hills, Fl				
Justin Roessler				
Sample Number:	AD33649	Sample ID:	GMP2 @ RESRE	C
Sample Method:	Pumped	Sample Matrix:	GAS	-

	rampea		Sample	Sample Matrix: GAS					
Date Sampled:	11/23/2022		Date Received:			11/23/2022			
Time Sampled:	11:11		Time Received:		15:07				
Sampled By:	J. STURM	STURM			GT				
			Delivere	d By:	JS				
REPORT OF ANAL	YSES These results	relate only to the samp	ole indicate	d above and		irements of the	2016 TNI s	tandards.	
Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit	
Percent Lower Explo	sive Lin METER	11/23/2022	11:11	JS	0.0	D	% LEL	0	
Percent Volume Met	hane METER	11/23/2022	11:11	JS	0.0	D	% VOL	0	

Analysis Comments

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

MCL=Maximum Contaminant Level

Candia 2. Muche

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137



JS

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Report Date: 11/28/2022 Class I Landfill Hays Road Shady Hills, Fl Justin Roessler Sample Number: AD33650 Sample ID: GMP3 @ RESREC Sample Method: Pumped Sample Matrix: GAS Date Sampled: 11/23/2022 Date Received: 11/23/2022 Time Sampled: 11:00 Time Received: 15:07 Sampled By: J. STURM Received By: GT

REPORT OF ANALYSES

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	Ву	Result	Qualifier	Unit	Detection Limit
Percent Volume Methane	METER	11/23/2022	11:00	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin	METER	11/23/2022	11:00	JS	0.0	D	% LEL	0

Delivered By:

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 7

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



0.0

D

% LEL

0

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CLIENT/SAMPLE INFORMATION

Percent Lower Explosive Lin METER

Hours: Mon-Fri 8am-5pm

Resource Recover Class I Landfill Hays Road Shady Hills, Fl	ý			Repor	t Date: 1	1/28/20	22
Justin Roessler							
Sample Number:	AD33651		Sample ID:	GMP4 @ I	RESREC		
Sample Method:	Pumped		Sample Matrix:	GAS			
Date Sampled:	11/23/2022		Date Received:	11/23/2022			
Time Sampled:	11:32		Time Received:	15:07	-		
Sampled By:	J. STURM		Received By:				
			Delivered By:	GT JS			
REPORT OF ANAL	YSES These re	sults relate only to the sam	ple indicated above and		ents of the 20	016 TNI s	tandards.
Analysis Percent Volume Met	Method hane METER	Date 11/23/2022	Time By 11:32 JS	Result Qu 0.0	u alifier D	Unit % VOL	Detection Limit

11/23/2022 11:32 JS

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

lantio E. Mushe

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

Resource Recovery Class I Landfill Hays Road	/		Report Date: 11/28/2022					
Shady Hills, Fl								
Justin Roessler								
Sample Number:	AD33652	Sample ID:	GMP5 @ RESREC					
Sample Method:	Pumped	Sample Matrix:	GAS					
Date Sampled:	11/23/2022	Date Received:	11/23/2022					
Time Sampled:	11:43	Time Received:	15:07					

REPORT OF ANALYSES

J. STURM

Sampled By:

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Volume Methane	METER	11/23/2022	11:43	JS	0.0	D	% VOL	0
Percent Lower Explosive Lin	METER	11/23/2022	11:43	JS	0.0	D	% LEL	0

Received By:

Delivered By:

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

Analysis Comments

Cantia 2. This

Candia E. Mulhern, Laboratory Manager

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

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

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State Laboratory ID: E44123 EPA Lab Code: FL00137

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Contacts: Annamarie Cangialosi, Administrative Secretary Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

% VOL

D

0

Sample Number:	AD33653	Sample ID:	GMP6 @ RESREC	
Justin Roessler				
Shady Hills, Fl				
Hays Road				
Class I Landfill				
Resource Recovery	ý		Report Date: 11/28/2022	

Sample Method: Date Sampled: Time Sampled:	Pumped 11/23/2022 12:00		Sample Matrix: Date Received: Time Received:		GAS 11/23/2022 15:07			
Sampled By: REPORT OF ANAL	J. STURM	relate only to the sam	Receive Delivere ple indicate	d By:	GT JS I meet all requ	irements of the	2016 TNI s	tandards.
Analysis Percent Lower Expl	Method osive Lin METER	Date 11/23/2022	Time 12:00	By JS	Result 0.0	Qualifier D	Unit % LEL	Detection Limit

12:00 JS

0.0

11/23/2022

Analysis Comments

Percent Volume Methane

Candia 2. Muchen

Candia E. Mulhern, Laboratory Manager

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METER

MCL=Maximum Contaminant Level

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