

From: [Elizabeth D. Kennelley, MS, CEPM](#)
To: [Madden, Melissa](#); [Tafuni, Steven](#); [SWD_Waste](#)
Cc: [Dan S. Sherlock](#); [Joshua L. Younce](#); [Troy D. Hays, PG](#)
Subject: Emailing: 2021.12.15_RPT_Citrus Co LF_WACS 39859_21Q4 LFG.pdf
Date: Wednesday, December 15, 2021 1:17:02 PM
Attachments: [2021.12.15_RPT_Citrus Co LF_WACS 39859_21Q4 LFG.pdf](#)

EXTERNAL MESSAGE

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Good afternoon,

Attached is the Fourth Quarter 2021 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
Department Manager

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

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December 15, 2021

Ms. Melissa Madden
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 – Fourth Quarter 2021
FDEP Permit No.: 21375-025-SO-01
FDEP Modification No.: 21375-026-SO-MM
Jones Edmunds Project Number: 03860-086-01

Dear Ms. Madden:

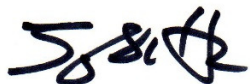
Enclosed are the Fourth Quarter 2021 landfill gas monitoring results for the Citrus County Central Landfill conducted on October 7 and 8, 2021. The calibration log is also enclosed with this letter.

Methane was not detected in any gas monitoring well on site. Based on these sampling results from the wells at varying depths, Methane does not exceed 100% Lower-Explosive-Limit (LEL) at the compliance boundary and the site is in compliance with the landfill gas migration rule.

The County continues to measure Methane in the groundwater monitoring wells. Methane was detected below the LEL in groundwater monitoring wells MW-15, MW-17, and PZ-2. Methane was detected at or above 100% LEL in groundwater monitoring wells MW-3, MW-5, MW-6, MW-7, MW-16, and MW-20.

Results from this sampling event indicate that the site is in compliance with the landfill gas migration rule. 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

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xc: Henry Norris, Citrus County
Dan Sherlock, Citrus County
Joshua Younce, Citrus County

CITRUS COUNTY CENTRAL LANDFILL
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures
Fourth Quarter 2021

General Data

Sampler:	Steve Messick/Royce Gamble
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
10/7/2021	13:10	32	Cloudy, light wind
10/8/2021	11:47	30	Cloudy, light wind

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	10/7/2021	14:33	20	18.9	2.6	0.0	-	Gas Well
GP-1	10/7/2021	14:34	40	18.7	2.8	0.0	-	Gas Well
GP-2	10/8/2021	11:46	20	10.4	4.4	0.0	-	Gas Well
GP-2	10/8/2021	11:47	40	10.3	4.8	0.0	-	Gas Well
GP-3	10/8/2021	12:00	20	20.1	1.8	0.0	-	Gas Well
GP-3	10/8/2021	12:02	40	19.9	1.8	0.0	-	Gas Well
GP-4	10/7/2021	14:11	20	18.9	3.2	0.0	-	Gas Well
GP-4	10/7/2021	14:12	40	18.2	3.8	0.0	-	Gas Well
GP-5	10/7/2021	14:06	20	18.5	3.0	0.0	-	Gas Well
GP-5	10/7/2021	14:07	40	20.9	0.0	0.0	-	Gas Well
GP-6	10/7/2021	13:58	20	19.3	3.0	0.0	-	Gas Well
GP-6	10/7/2021	13:59	40	19.7	2.6	0.0	-	Gas Well
GP-7	10/7/2021	13:53	20	19.9	2.4	0.0	-	Gas Well
GP-7	10/7/2021	13:54	40	20.0	2.4	0.0	-	Gas Well
GP-8	10/7/2021	13:50	20	18.8	2.0	0.0	-	Gas Well
GP-8	10/7/2021	13:51	40	18.5	2.2	0.0	-	Gas Well
GP-9	10/7/2021	13:46	20	20.0	2.2	0.0	-	Gas Well
GP-9	10/7/2021	13:47	40	20.1	2.0	0.0	-	Gas Well
GP-10	10/7/2021	13:42	20	14.7	7.8	0.0	-	Gas Well
GP-10	10/7/2021	13:43	40	15.0	7.4	0.0	-	Gas Well
GP-11	10/7/2021	13:38	20	19.2	2.0	0.0	-	Gas Well
GP-11	10/7/2021	13:39	40	18.0	2.0	0.0	-	Gas Well
GP-12	10/7/2021	13:34	25	20.5	1.8	0.0	-	Gas Well
GP-12	10/7/2021	13:35	50	20.5	1.8	0.0	-	Gas Well
GP-12	10/7/2021	13:36	75	20.7	1.8	0.0	-	Gas Well
GP-13	10/7/2021	13:28	25	18.5	2.2	0.0	-	Gas Well
GP-13	10/7/2021	13:29	50	18.4	2.2	0.0	-	Gas Well
GP-13	10/7/2021	13:30	75	18.8	1.8	0.0	-	Gas Well
GP-14	10/7/2021	13:23	25	20.5	1.2	0.0	-	Gas Well

CITRUS COUNTY CENTRAL LANDFILL
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures
Fourth Quarter 2021

General Data

Sampler:	Steve Messick/Royce Gamble
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
10/7/2021	13:10	32	Cloudy, light wind
10/8/2021	11:47	30	Cloudy, light wind

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	10/7/2021	13:24	50	20.5	1.2	0.0	-	Gas Well
GP-14	10/7/2021	13:25	75	20.5	1.2	0.0	-	Gas Well
GP-15	10/7/2021	13:17	25	20.9	1.4	0.0	-	Gas Well
GP-15	10/7/2021	13:18	50	20.9	1.4	0.0	-	Gas Well
GP-15	10/7/2021	13:19	75	20.9	1.0	0.0	-	Gas Well
GP-16	10/7/2021	13:10	25	20.5	1.4	0.0	-	Gas Well
GP-16	10/7/2021	13:11	50	20.4	1.6	0.0	-	Gas Well
GP-16	10/7/2021	13:12	75	20.7	1.4	0.0	-	Gas Well
GP-17	10/7/2021	11:49	25	17.4	4.2	0.0	-	Gas Well
GP-17	10/7/2021	11:50	50	12.8	8.0	0.0	-	Gas Well
GP-17	10/7/2021	11:52	75	14.2	6.6	0.0	-	Gas Well
GP-18	10/7/2021	11:44	25	20.2	1.8	0.0	-	Gas Well
GP-18	10/7/2021	11:46	50	18.8	2.4	0.0	-	Gas Well
GP-18	10/7/2021	11:47	75	19.0	2.0	0.0	-	Gas Well
GP-19	10/7/2021	11:36	25	20.9	0.8	0.0	-	Gas Well
GP-19	10/7/2021	11:37	50	20.9	1.2	0.0	-	Gas Well
GP-19	10/7/2021	11:38	75	20.9	1.0	0.0	-	Gas Well
GP-20	10/7/2021	13:14	105	19.2	1.8	0.0	-	Gas Well
GP-21	10/7/2021	11:41	115	15.9	0.0	0.0	-	Gas Well
GP-22	10/7/2021	14:38	70	20.9	0.0	0.0	-	Gas Well
GP-23	10/8/2021	14:36	100	14.2	2.0	0.0	-	Gas Well
GP-24	10/8/2021	11:51	70	16.2	0.6	0.0	-	Gas Well
GP-25	10/8/2021	11:54	100	19.4	0.2	0.0	-	Gas Well
GP-26	10/8/2021	12:05	70	18.4	1.8	0.0	-	Gas Well
GP-27	10/8/2021	12:08	100	17.9	2.0	0.0	-	Gas Well
GP-28	10/7/2021	14:19	70	18.9	2.8	0.0	-	Gas Well
GP-29	10/7/2021	14:17	100	20.9	0.0	0.0	-	Gas Well
GP-30	10/7/2021	13:20	105	20.9	1.0	0.0	-	Gas Well
Admin Building	10/8/2021	9:42	-	20.9	0.0	0.0	-	Structure

CITRUS COUNTY CENTRAL LANDFILL
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures
Fourth Quarter 2021

General Data

Sampler:	Steve Messick/Royce Gamble
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
10/7/2021	13:10	32	Cloudy, light wind
10/8/2021	11:47	30	Cloudy, light wind

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	
Mod Bldg	10/8/2021	9:53	-	20.9	0.0	0.0	-	Structure
Shop	10/8/2021	9:51	-	20.9	0.0	0.0	-	Structure
Scale House	10/8/2021	9:47	-	20.9	0.0	0.0	-	Structure
Firing Range	10/7/2021	9:36	-	20.9	0.0	0.0	-	6 Structures
Haz Waste Drop-Off Center	10/7/2021	9:30	-	20.9	0.0	0.0	-	4 Structures
Equipment Container 1	10/8/2021	9:50	-	20.9	0.0	0.0	-	Structure
Storage Building	10/8/2021	9:59	-	20.9	0.0	0.0	-	Structure
Electronics	10/8/2021	10:04	-	20.9	0.0	0.0	-	Structure*
Paints	10/7/2021	9:24	-	20.9	0.0	0.0	-	Structure*
Chemical Container	10/8/2021	10:16	-	20.9	0.0	0.0	-	Structure*

* Temporary Structure (Cargo Containers)

CITRUS COUNTY CENTRAL LANDFILL
LANDFILL GAS MONITORING RESULTS

Groundwater Monitoring Wells and Piezometers
Fourth Quarter 2021

General Data

Sampler:	Steve Messick/Royce Gamble
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
10/7/2021	9:50 AM	29	Clear - Light wind
10/8/2021	11:47 AM	30	Cloudy - Light wind

Sampling Data

Station I.D.	Date Sampled	Time Sampled	O2 %Volume	CO2 %Volume	Methane		Station Type
					Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
MW-1R	10/7/2021	14:28	19.3	2.4	0.0	--	Groundwater Well
MW-2	10/7/2021	11:27	16.5	2.6	0.0	--	Groundwater Well
MW-3	10/8/2021	10:36	8.9	24.0	--	49.0	Groundwater Well
MW-5	10/8/2021	10:53	5.7	43.2	--	58.5	Groundwater Well
MW-6	10/8/2021	10:58	6.0	28.2	--	22.0	Groundwater Well
MW-7	10/8/2021	10:41	5.7	45.2	--	61.0	Groundwater Well
MW-8R	10/7/2021	10:00	18.7	11.6	0.0	--	Groundwater Well
MW-9	10/7/2021	10:08	15.4	9.2	0.0	--	Groundwater Well
MW-10	10/8/2021	12:26	17.1	12.6	0.0	--	Groundwater Well
MW-11	10/7/2021	10:24	18.8	3.2	0.0	--	Groundwater Well
MW-12	10/7/2021	10:38	20.7	0.2	0.0	--	Groundwater Well
MW-13	10/7/2021	10:53	20.8	1.6	0.0	--	Groundwater Well
MW-14	10/7/2021	10:58	10.6	5.4	0.0	--	Groundwater Well
MW-15	10/7/2021	11:05	9.6	14.0	38.0	--	Groundwater Well
MW-16	10/8/2021	10:10	8.4	29.2	--	51.0	Groundwater Well
MW-17	10/7/2021	11:11	10.1	14.0	35.0	--	Groundwater Well
MW-18	10/8/2021	12:20	20.7	1.4	0.0	--	Groundwater Well
MW-18D	10/8/2021	12:17	16.0	5.0	0.0	--	Groundwater Well
MW-19	10/8/2021	12:31	17.2	11.4	0.0	--	Groundwater Well
MW-19D	10/8/2021	12:35	19.3	2.2	0.0	--	Groundwater Well
MW-20	10/8/2021	10:47	5.6	43.8	--	60.5	Groundwater Well
MW-21	10/8/2021	11:34	8.8	15.4	0.0	--	Groundwater Well
MW-22	10/8/2021	11:41	8.8	15.2	0.0	--	Groundwater Well
MW-AA	10/7/2021	10:47	20.7	1.6	0.0	--	Groundwater Well
MW-B	10/7/2021	9:52	18.7	12.6	0.0	--	Groundwater Well

CITRUS COUNTY CENTRAL LANDFILL
LANDFILL GAS MONITORING RESULTS

Groundwater Monitoring Wells and Piezometers
Fourth Quarter 2021

General Data

Sampler:	Steve Messick/Royce Gamble
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
10/7/2021	9:50 AM	29	Clear - Light wind
10/8/2021	11:47 AM	30	Cloudy - Light wind

Sampling Data

Station I.D.	Date Sampled	Time Sampled	O2 %Volume	CO2 %Volume	Methane		Station Type
					Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
MW-E	10/7/2021	9:29	20.9	0.2	0.0	--	Groundwater Well
PZ-1	10/7/2021	10:12	16.6	3.8	0.0	--	Groundwater Well
PZ-2	10/7/2021	12:12	12.4	6.0	1.0	--	Groundwater Well

Field Data
and
Instrument Calibration Record

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

General Data

Gas Monitoring Probes (Wells) and Structures

Date:	10-7-21 / 10-8-21	Sampler:	Steve Messick / Royce Gamble
Time:	1310 / 1147	Sky Conditions:	Cloudy - light wind
Air Temperature (deg C):	32°C / 30°C	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	10-7-21	1433	20	18.7	2.6	0	—	Gas Well
GP-1	10-7-21	1434	40	18.7	2.8	0	—	Gas Well
GP-2	10-8-21	1146	20	10.4	4.4	0	—	Gas Well
GP-2	10-8-21	1147	40	10.3	4.8	0	—	Gas Well
GP-3	10-8-21	1200	20	20.1	1.8	0	—	Gas Well
GP-3	10-8-21	1202	40	19.9	1.8	0	—	Gas Well
GP-4	10-7-21	1411	20	18.7	3.2	0	—	Gas Well
GP-4	10-7-21	1412	40	18.2	3.8	0	—	Gas Well
GP-5	10-7-21	1406	20	18.5	3.0	0	—	Gas Well
GP-5	10-7-21	1407	40	20.7	0.0	0	—	Gas Well
GP-6	10-7-21	1358	20	19.3	3.0	0	—	Gas Well
GP-6	10-7-21	1359	40	19.7	2.6	0	—	Gas Well
GP-7	10-7-21	1353	20	19.9	2.4	0	—	Gas Well
GP-7	10-7-21	1354	40	20.0	2.4	0	—	Gas Well
GP-8	10-7-21	1350	20	18.8	2.0	0	—	Gas Well
GP-8	10-7-21	1351	40	18.5	2.2	0	—	Gas Well
GP-9	10-7-21	1346	20	20.0	2.2	0	—	Gas Well
GP-9	10-7-21	1347	40	20.1	2.0	0	—	Gas Well
GP-10	10-7-21	1342	20	14.7	7.8	0	—	Gas Well
GP-10	10-7-21	1343	40	15.0	7.4	0	—	Gas Well
GP-11	10-7-21	1338	20	19.2	2.0	0	—	Gas Well
GP-11	10-7-21	1339	40	18.0	2.0	0	—	Gas Well
GP-12	10-7-21	1334	25	20.5	1.8	0	—	Gas Well
GP-12	10-7-21	1335	50	20.5	1.8	0	—	Gas Well
GP-12	10-7-21	1336	75	20.7	1.8	0	—	Gas Well
GP-13	10-7-21	1328	25	18.5	2.2	0	—	Gas Well
GP-13	10-7-21	1329	50	18.4	2.2	0	—	Gas Well
GP-13	10-7-21	1330	75	18.8	1.8	0	—	Gas Well
GP-14	10-7-21	1323	25	20.5	1.2	0	—	Gas Well
GP-14	10-7-21	1324	50	20.5	1.2	0	—	Gas Well
GP-14	10-7-21	1325	75	20.5	1.2	0	—	Gas Well
GP-15	10-7-21	1317	25	20.9	1.4	0	—	Gas Well
GP-15	10-7-21	1318	50	20.9	1.4	0	—	Gas Well
GP-15	10-7-21	1319	75	20.9	1.0	0	—	Gas Well
GP-16	10-7-21	1310	25	20.3	1.4	0	—	Gas Well
GP-16	10-7-21	1311	50	20.4	1.6	0	—	Gas Well
GP-16	10-7-21	1312	75	20.7	1.4	0	—	Gas Well

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

General Data

Gas Monitoring Probes (Wells) and Structures

Date:	10-7-21	10-8-21	Sampler:	Steve Messick / Royce Gamble
Time:	0915	0940	Sky Conditions:	Clear / Clear
Air Temperature (deg C):	27°C	28°C	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-17	10-7-21	1149	25	17.4	4.2	Ø	—	Gas Well
GP-17	10-7-21	1150	50	12.8	8.0	Ø	—	Gas Well
GP-17	10-7-21	1152	75	14.2	6.6	Ø	—	Gas Well
GP-18	10-7-21	1144	25	20.2	1.9	Ø	—	Gas Well
GP-18	10-7-21	1146	50	18.8	2.4	Ø	—	Gas Well
GP-18	10-7-21	1147	75	19.0	2.0	Ø	—	Gas Well
GP-19	10-7-21	1136	25	20.9	0.8	Ø	—	Gas Well
GP-19	10-7-21	1137	50	20.9	1.2	Ø	—	Gas Well
GP-19	10-7-21	1138	75	20.9	1.0	Ø	—	Gas Well
GP-20	10-7-21	1314	105	19.2	1.8	Ø	—	Gas Well
GP-21	10-7-21	1141	115	15.9	0.0	Ø	CO = 53 ppm	Gas Well
GP-22	10-7-21	1438	70	20.9	0.0	Ø	CO = 68 ppm	Gas Well
GP-23	10-7-21	1436	100	14.2	2.0	Ø	—	Gas Well
GP-24	10-8-21	1151	70	16.2	0.6	Ø	—	Gas Well
GP-25	10-8-21	1154	100	19.4	0.2	Ø	—	Gas Well
GP-26	10-8-21	1205	70	18.4	1.8	Ø	—	Gas Well
GP-27	10-8-21	1208	100	17.9	2.0	Ø	—	Gas Well
GP-28	10-7-21	1419	70	19.9	3.8	Ø	—	Gas Well
GP-29	10-7-21	1417	100	20.9	0.0	Ø	—	Gas Well
GP-30	10-7-21	1320	105	20.9	1.0	Ø	—	Gas Well
Admin Building	10-8-21	0942	-	20.9	0.0	Ø	—	Structure
Mod Bldg	10-8-21	0953	-	20.9	0.0	Ø	—	Structure
Shop	10-8-21	0951	-	20.9	0.0	Ø	—	Structure
Scale House	10-8-21	0947	-	20.9	0.0	Ø	—	Structure
Firing Range	10-7-21	0936	-	20.9	0.0	Ø	—	6 Structures
Haz Waste Drop-Off Ctr.	10-7-21	0930	-	20.9	0.0	Ø	—	4 Structures
Equipment Container	10-8-21	0950	-	20.9	0.0	Ø	—	Structure
Storage Building	10-8-21	0959	-	20.9	0.0	Ø	—	REMOVED
Electronics	10-8-21	1004	-	20.9	0.0	Ø	—	Structure, Temp
Paints	10-7-21	0924	-	20.9	0.0	Ø	—	Structure, Temp
Chemical Container	10-8-21	1016	-	20.9	0.0	Ø	—	Structure, Temp
			-					

Note: One structure has been removed from the firing range area, 6 now left.

CITRUS COUNTY CENTRAL LANDFILL
LANDFILL GAS MONITORING RESULTS

Groundwater Monitoring Wells and Piezometers

General Data **21Q4**

Date:	10-7-21	Sampler:	Steve Messick / Boyce Gamble
Time:	0950	Sky Conditions:	Clear - light wind
Air Temperature (deg C):	29°C	Measuring Device:	Eagle RKI (SN E084039)

Sampling Data

Station I.D.	Date Sampled	Time Sampled	O2 %Volume	CO2 %Volume	Methane		Station Type
					Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
MW-1R	10-7-21	1428	19.3	2.4	0	—	Groundwater Well
MW-2	10-7-21	1127	16.5	2.6	0	—	Groundwater Well
MW-3	10-8-21	1036	8.9	24.0	—	49.0	Groundwater Well
MW-5	10-8-21	1053	5.7	43.2	—	58.5	Groundwater Well
MW-6	10-8-21	1058	6.0	28.2	—	22.0	Groundwater Well
MW-7	10-8-21	1041	5.7	45.2	0.1	61.0	Groundwater Well
MW-8R	10-7-21	1000	18.7	11.6	0	—	Groundwater Well
MW-9	10-7-21	1008	15.4	9.2	0	—	Groundwater Well
MW-10	10-8-21	1226	17.1	12.6	0	—	Groundwater Well
MW-11	10-7-21	1024	18.8	3.2	0	—	Groundwater Well
MW-12	10-7-21	1038	20.7	0.2	0	—	Groundwater Well
MW-13	10-7-21	1053	20.8	1.6	0	—	Groundwater Well
MW-14	10-7-21	1058	10.6	5.4	0	—	Groundwater Well
MW-15	10-7-21	1105	9.6	14.0	38	—	Groundwater Well
MW-16	10-8-21	1010	8.4	29.2	1	51.0	Groundwater Well
MW-17	10-7-21	1111	10.1	14.0	35	—	Groundwater Well
MW-18	10-8-21	1220	20.7	1.4	0	—	Groundwater Well
MW-18D	10-8-21	1217	16.0	5.0	0	—	Groundwater Well
MW-19	10-8-21	1231	17.2	11.4	0	—	Groundwater Well
MW-19D	10-8-21	1235	19.3	2.2	0	—	Groundwater Well
MW-20	10-8-21	1047	5.6	43.8	11	60.5	Groundwater Well
MW-21	10-8-21	1134	8.8	15.4	0	—	Groundwater Well
MW-22	10-8-21	1141	8.8	15.2	0	—	Groundwater Well
MW-AA	10-7-21	1047	20.7	1.6	0	—	Groundwater Well
MW-B	10-7-21	0952	18.7	12.6	0	—	Groundwater Well
MW-E	10-7-21	0929	20.9	0.2	0	—	Groundwater Well
PZ-1	10-7-21	1012	16.6	3.8	0	—	Groundwater Well
PZ-2	10-7-21	1212	12.4	6.0	1	—	Groundwater Well

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

SITE NAME Citrus County Central LF DATE 10/7/21
INSTRUMENT (MAKE/MODEL#) Eagle Multi-Gas Detector INSTRUMENT # GNV 80023*
Instrument Calibration Date 01/11/2021 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 15.72% Methane (Volume), 14.71 % CO₂ (Volume), Balance Nitrogen

Standard Source Airgas Lot # 122-401950036-1

Standard B Zero Air (0 % Methane) (0% CO₂) (21.0 % O₂)

Standard Source Airgas Lot # 55-400485109-1

Standard C % LEL Methane % CO₂ (Volume), 0% O₂ (Volume), Bal Nitrogen

Standard Source _____ Lot # _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	CH ₄ STD VALUE (% Vol)	CO ₂ STD VALUE (% Vol)	O ₂ STD VALUE (% Vol)	INSTRUMENT RESPONSE (%) DEVIATION (LIMITS +/- 5%)						CALIB- RATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
						CH ₄		CO ₂		O ₂				
						RES	DEV	RES	DEV	RES	DEV			
21/10/07	0910	A	15.7	14.7	—	16.0	<2	14.6	<1	—	—	Yes	Init.	Jun
	0914	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Init.	Jun
	1155	A	15.7	14.7	—	15.5	<2	15.0	<3	—	—	Yes	Cont.	Am
	1157	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Cont.	Am
	1440	A	15.7	14.7	—	15.0	<5	15.0	<3	—	—	Yes	Cont.	Am
	1442	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Cont.	Am
21/10/08	0926	A	15.7	14.7	—	15.5	<2	14.8	<1	—	—	Yes	Init.	Am
	0929	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Init.	Am
	1251	A	15.7	14.7	—	15.5	<2	14.8	<1	—	—	Yes	Cont.	Am
	1254	B	—	—	21.0	—	—	—	—	21.0	✓	Yes	Cont.	Am

* Eagle SN E084039