ATLANTIC COAST CONSULTING, INC.

A solid approach for a cleaner environment.

April 3, 2025

Transmitted via GEOS
Submittal ID: 919090

Mr. David DuBose, P.G.
Georgia Department of Natural Resources
Environmental Protection Division
Solid Waste Management Program
4244 International Parkway, Suite 104
Atlanta, Georgia 30354

RE: Periodic Monitoring Report – First Quarter 2025
Forsyth County-Hightower Road Landfill
Solid Waste Permit Nos.: 058-006D(SL), 058-009D(SL), & 058-010D(SL)
Forsyth County

Dear Mr. DuBose:

Atlantic Coast Consulting, Inc. (ACC) is providing Georgia Department of Natural Resources, Environmental Protection Division (EPD) this Methane Monitoring Report for the closed Hightower Road Solid Waste Landfill. Perimeter monitoring was conducted March 28, 2025, with procedures in accordance with the facility's approved methane monitoring plan. Attached is the SWM-19 form and recent potentiometric map. The monitoring well methane concentrations were reported as being less than 5 percent methane by volume during this monitoring event.

A copy of this report will be placed in the Operating Record. Please contact me or Sam Buckles with Forsyth County if you have any questions regarding this report.

Sincerely,

ATLANTIC COAST CONSULTING, INC.

Charles Adams, P.G.
Project Manager

Attachments
cc: Samuel Buckles with attachments via email.
Operating Record via FedEx: 880286863040

Atlantic Coast Consulting, Inc.

ATTACHMENT

SWM-19 FORM
AND
POTENTIOMETRIC MAP

Periodic Methane Monitoring Report

First Quarter / 2025

Quarter or Month / Year

Facility Name:	Hightower Road Landfill	**Date(s) of Monitoring:**	3/28/2025
Facility Permit #'s:	058-006D(SL), 058-009D(SL)	**Monitoring Conducted by:**	C. Klamke
Permit #'s (cont):	058-010D(SL)	**Equipment Field Calibrated by:**	C. Klamke
County (Location):	Forsyth	**Date of Field Calibration:**	3/28/2025
Monitoring Equipment:	GX-2012	**Manufacturer Calibration/Service Date:**	1/6/2025

1. All reports must include a scaled and dated potentiometric surface map, (this applies only to those facilities required to perform groundwater monitoring) that shows ALL monitoring points, accompanied by a table listing the as-built depths and corresponding elevations of the bottoms of the methane monitoring wells and/or barhole punches. The potentiometric surface maps must be updated on an annual basis, and signed & sealed by a qualified groundwater scientist. Those facilities that do not conduct groundwater monitoring should, at a minimum, include a site map that shows ALL monitoring locations.

2. All reports must specify whether each monitoring location is a structure, permanent well, barhole punch, or vent (e.g. MM-1=scalehouse, MM-1=well, MM-1=BHP (barhole punch), MM-1=vent, or GWC-1=groundwater well).

3. Monitoring Results

a. Permanent Approved COMPLIANCE Monitoring Locations

Monitoring Point Identification	Monitoring Results		Monitoring Point Identification	Monitoring Results	
MM-1R	% Methane By Volume:	0.0%	**MM-6**	% Methane By Volume:	0.0%
Well	% Oxygen:	20.2%	Well	% Oxygen:	19.2%
	Time Sampled:	14:19		Time Sampled:	13:31
MM-2	% Methane By Volume:	0.0%	**MM-7**	% Methane By Volume:	0.0%
Well	% Oxygen:	15.8%	Well	% Oxygen:	20.9%
	Time Sampled:	13:07		Time Sampled:	13:40
MM-3	% Methane By Volume:	0.0%	**MM-8**	% Methane By Volume:	0.0%
Well	% Oxygen:	18.1%	Well	% Oxygen:	20.9%
	Time Sampled:	14:24		Time Sampled:	13:13
MM-4	% Methane By Volume:	0.0%	**MM-9**	% Methane By Volume:	0.0%
Well	% Oxygen:	16.5%	Well	% Oxygen:	20.9%
	Time Sampled:	14:29		Time Sampled:	14:04
MM-5	% Methane By Volume:	0.0%	**MM-10**	% Methane By Volume:	0.0%
Well	% Oxygen:	18.3%	Well	% Oxygen:	19.8%
	Time Sampled:	13:00		Time Sampled:	13:52

a. Permanent Approved COMPLIANCE Monitoring Locations (continued)

Monitoring Point Identification	Monitoring Results		Monitoring Point Identification	Monitoring Results	
MM-11R	% Methane By Volume:	0.0%	**MM-14**	% Methane By Volume:	0.0%
BHP	% Oxygen:	20.9%	Well	% Oxygen:	20.7%
	Time Sampled:	14:11		Time Sampled:	13:17
MM-13	% Methane By Volume:	0.0%	**MM-15**	% Methane By Volume:	0.0%
Well	% Oxygen:	20.9%	Well	% Oxygen:	20.9%
	Time Sampled:	13:23		Time Sampled:	13:12

b. Facility Structures (All on-site structures must be monitored, listed, and shown on map.)

Facility Structure	Monitoring Results		Facility Structure	Monitoring Results	
N/A	% LEL:		**N/A**	% LEL:	
	% Methane by Volume:			% Methane by Volume:	
	% Oxygen:			% Oxygen:	
	Time Sampled:			Time Sampled:	

c. Miscellaneous Monitoring Locations (vents, trenches not part of compliance monitoring)

Monitoring Point Identification	Monitoring Results		Monitoring Point Identification	Monitoring Results	
MV-11	% Methane By Volume:	0.0%	N/A	% Methane By Volume:	
Vent	% Oxygen:	20.9%		% Oxygen:	
	Time Sampled:	13:48		Time Sampled:	

d. Adjacent Off-Site Structures (off-site structures at facilities with known release)

Off-Site Structure	Monitoring Results		Off-Site Structure	Monitoring Results	
N/A	% LEL:		**N/A**	% LEL:	
	% Methane by Volume:			% Methane by Volume:	
	% Oxygen:			% Oxygen:	
	Time Sampled:			Time Sampled:	

4. Climatic/Physical Conditions at Site

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. **All sampling at compliance monitoring locations must be performed after 12:00 pm, and completed by 6:00 pm.** Barometric information can be obtained from many locations. (i.e. http://weather.noaa.gov)

a. Soil Conditions: Normal

b. Weather Conditions: Fair

c. Temperature: 77 °F

d. Barometric Conditions: Rising ____ Falling ____ Steady **X** Reading: 29.17

e. Relative Humidity 10-90%? Yes **X** No ____ Range: 24-31%

f. Condition/Access: Sampling points are properly identified, secured, and maintained?

Yes **X** No ____

If no, please list deficiencies observed:

g. If stressed vegetation due to the presence of methane gas is noted, describe the extent and location in the space provided below.

Vegetation is not stressed.

5. Description of Sampling Techniques: Provide a clear and concise description for each type of sampling (well, barhole punch, structure, etc.) performed during the monitoring event. Wells are **NOT** to be vented; peak readings should be reported. Any exceptions should be noted here.

Wells were not vented prior to taking the sample and are equipped with quick-connect sample ports. The instrument was allowed to pump the sample for 3 minutes until the oxygen reading stabilized and the peak reading was recorded.

6. Additional Comments

Event attended by Samuel B. Buckles, Environmental Scientist Manager, Forsyth County Recycling & Solid Waste Department

Tool Shed building has been demolished.

CERTIFICATION

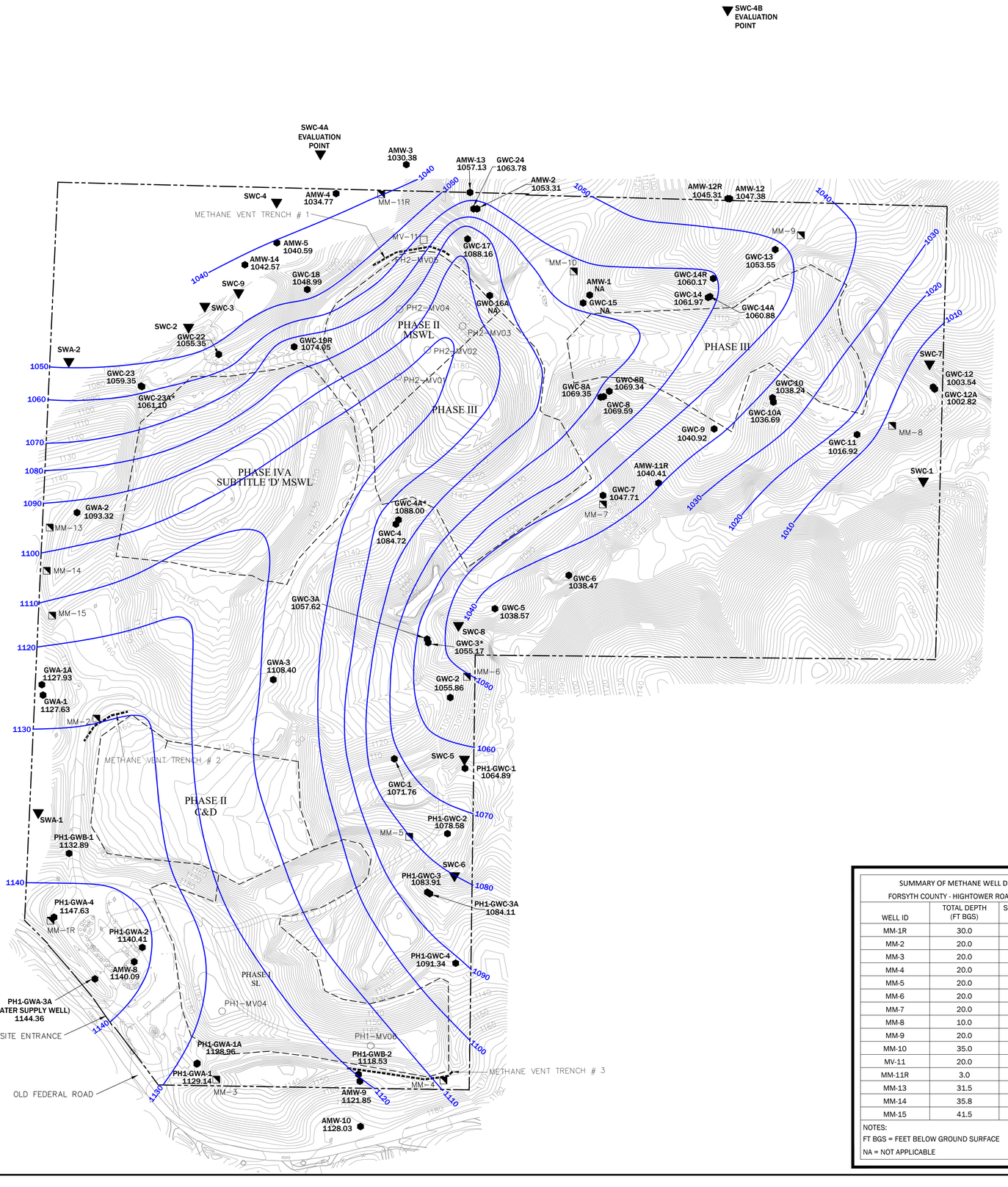
I CERTIFY that all required information on this form is complete and accurate, and

I further CERTIFY that methane sampling was conducted by myself or my authorized representative in accordance with all applicable rules and current EPD guidance. Concentrations of methane detected during this sampling/monitoring event ___ **do** / **_X_ do not** exceed 25 percent of the lower explosive limit (LEL) for methane in facility structures (excluding the gas recovery system components), and gas concentrations ___ **do** / **_X_ do not** exceed the LEL for methane at the approved compliance monitoring locations.

(IF THIS STATEMENT IS NOT SIGNED OR THE FORM IS ALTERED, THE DIVISION WILL NOT ACCEPT THE RESULTS FROM THE SUBJECT FACILITY.)

(Signature)	Professional Geologist # 1632 (Title)	3-Apr-2025 (Date)

Charles Adams, 11545 Wills Rd., Suite 100, Alpharetta, GA 30009, (770) 594-5998
(Typed Name, Address, and Telephone Number)



SUMMARY OF GROUNDWATER ELEVATION DATA FORSYTH COUNTY - HIGHTOWER ROAD MSWLF DECEMBER 2024 SAMPLING EVENT				
MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION (FT MSL)
PHASE I GROUNDWATER ELEVATION DATA				
PH1-GWA-1	48.66	1176.37	47.23	1129.14
PH1-GWA-1A	108.00	1176.35	47.39	1128.96
PH1-GWA-2	53.60	1183.40	42.99	1140.41
PH1-GWA-3A	250.00	1187.16	42.80	1144.36
PH1-GWA-4	57.00	1191.14	43.51	1147.63
PH1-GWB-1	53.80	1179.10	46.21	1132.89
PH1-GWB-2	42.22	1155.04	36.51	1118.53
PH1-GWC-1	23.79	1074.66	9.77	1064.89
PH1-GWC-2	127.61	1103.93	25.35	1078.58
PH1-GWC-3	23.42	1096.96	13.05	1083.91
PH1-GWC-3A	55.42	1096.28	12.17	1084.11
PH1-GWC-4	33.71	1124.26	32.92	1091.34
GWC-1	38.80	1102.25	30.49	1071.76
AMW-8	50.40	1186.23	46.14	1040.09
AMW-9	41.69	1162.64	40.79	1121.85
AMW-10	56.81	1180.73	52.70	1128.03
MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION* (FT MSL)
PHASE II, III, AND IV GROUNDWATER ELEVATION DATA				
GWA-1	62.85	1187.70	60.07	1127.63
GWA-1A	141.00	1187.49	59.56	1127.93
GWA-2	52.18	1137.30	43.98	1093.32
GWA-3	48.86	1154.53	46.13	1108.40
GWC-2	55.61	1103.64	47.78	1055.86
GWC-3	39.71	1092.39	37.22	1055.17
GWC-3A	68.95	1094.67	37.05	1057.62
GWC-4	49.81	1132.82	48.10	1084.72
GWC-4A	89.23	1132.39	44.39	1088.00
GWC-5	49.91	1084.55	45.98	1038.57
GWC-6	34.52	1064.01	25.54	1038.47
GWC-7	54.21	1093.44	45.73	1047.71
GWC-8	27.53	1095.63	26.04	1069.59
GWC-8A	46.71	1095.44	26.09	1069.35
GWC-8R	94.67	1098.40	29.06	1069.34
GWC-9	60.50	1093.58	52.66	1040.92
GWC-10	37.51	1068.56	30.32	1038.24
GWC-10A	54.30	1066.45	29.76	1036.69
GWC-11	46.80	1054.08	37.16	1016.92
GWC-12	40.06	1038.06	34.52	1003.54
GWC-12A	49.44	1038.09	35.27	1002.82
GWC-13	44.95	1090.82	37.27	1053.55
GWC-14	28.37	1089.49	27.52	1061.97
GWC-14A	64.75	1089.32	28.44	1060.88
GWC-14R	93.61	1078.60	18.43	1060.17
GWC-15	62.84	1125.68	DRY	DRY
GWC-16A	51.05	1136.49	DRY	DRY
GWC-17	21.59	1107.78	19.62	1088.16
GWC-18	52.70	1094.87	45.88	1048.99
GWC-19R	39.87	1105.79	31.74	1074.05
GWC-22	35.05	1079.01	23.66	1055.35
GWC-23	32.22	1079.06	19.71	1059.35
GWC-23A	61.67	1079.10	18.00	1061.10
GWC-24	44.09	1102.32	38.54	1063.78
AMW-1	180.70	1130.04	DRY	DRY
AMW-2	150.00	1101.96	DRY	DRY
AMW-3	31.30	1041.09	10.71	1030.38
AMW-4	18.80	1040.09	5.32	1034.77
AMW-5	23.06	1049.32	8.73	1040.59
AMW-11R	58.10	1053.63	13.22	1040.41
AMW-12	19.56	1056.85	9.47	1047.38
AMW-12R	46.43	1056.34	11.03	1045.31
AMW-13	36.18	1093.09	35.96	1057.13
AMW-14	21.70	1052.73	10.16	1042.57

NOTES:
DEPTHS TO WATER MEASURED DECEMBER 2, 2024.
FT BTOC = FEET BELOW TOP OF CASING
FT MSL = FEET MEAN SEA LEVEL
TOC = TOP OF CASING

SUMMARY OF METHANE WELL DETAILS FORSYTH COUNTY - HIGHTOWER ROAD MSWLF		
WELL ID	TOTAL DEPTH (FT BGS)	SCREEN INTERVAL (FT BGS)
MM-1R	30.0	10.0 - 30.0
MM-2	20.0	10.0 - 20.0
MM-3	20.0	10.0 - 20.0
MM-4	20.0	10.0 - 20.0
MM-5	20.0	10.0 - 20.0
MM-6	20.0	10.0 - 20.0
MM-7	20.0	10.0 - 20.0
MM-8	10.0	5.0 - 10.0
MM-9	20.0	10.0 - 20.0
MM-10	35.0	25.0 - 35.0
MV-11	20.0	10.0 - 20.0
MM-11R	3.0	NA
MM-13	31.5	20.4 - 30.4
MM-14	35.8	24.7 - 34.7
MM-15	41.5	30.4 - 40.4

NOTES:
FT BGS = FEET BELOW GROUND SURFACE
NA = NOT APPLICABLE

CHARLES BRISENDINE ADAMS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
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Roswell, GA
Savannah, GA
Knoxville, TN

150 0 75 150 300
SCALE (IN FEET)

LEGEND

EXISTING	DESCRIPTION
850	PROMINENT TOPOGRAHIC CONTOUR
	INTERMEDIATE TOPOGRAHIC CONTOUR
	PROPERTY BOUNDARY
	APPROXAMITE LIMIT OF WASTE
	SURFACE WATER/POND
770	GROUNDWATER CONTOUR
	GROUNDWATER FLOW DIRECTION
GWA-1 1002.23	GROUNDWATER MONITORING WELL
SWA-1	ELEVATION IN FEET MEAN SEA LEVEL
MM-1	SURFACE WATER MONITORING POINT
MV-1	METHANE MONITORING POINT
	METHANE VENT
	METHANE VENT TRENCH
PH1-MV04	EXTRACTION POINT WITH FLARE

NOTES

1. SURVEY IS PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.
2. WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO. DRAWINGS DATED MARCH 3, 1996.
3. GWC-3*, GWC-4A*, GWC-23A*, AND AMW-2* ARE NOT USED FOR POTENTIOMETRIC CONTOURS.
4. POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET.

REVISIONS

0. INITIAL ISSUE	01/06/2025

PROJECT

FORSYTH COUNTY
HIGHTOWER ROAD LANDFILL

POTENTIOMETRIC SURFACE MAP DECEMBER 2024

Drawn by:	Checked by:	QC by:
JB	CA	SK

PROJECT NUMBER: G020-113

FIGURE: 1

P:\Governmental\2020-Forsyth County\113-Environmental Monitoring Services\2-GW Sampling And Reporting\2024\2nd 2024\DWG\Forsyth Co 2nd 2024 PS Map.dwg 2025-03-19 STEPHEN KIM