

1150 Northmeadow Parkway Suite 100 Roswell GA 30076 (770) 594-5998 www.atlcc.net

March 3, 2022

Transmitted via GEOS Submittal ID: 644796

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 2022 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 2, 2022, 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 and the methane concentration in the facility structure was less than 1.25 percent methane by volume.

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.

Thank you,

ATLANTIC COAST CONSULTING, INC.

Charles Adam

Project Manager

Attachments

cc: Samuel Buckles with attachments via email. EPD Mountain District, Cartersville cover letter only via Regular mail. Operating Record via FedEx: 776203671350 SWM-19 FORM

AND

POTENTIOMETRIC MAP

Periodic Methane Monitoring Report

Quarter One / 2022

Quarter or Month / Year

Facility Name:	Hightower Road Landfill	Date(s) of Monitoring:	3/2/2022
Facility Permit #'s:	058-006D(SL), 058-009D(SL)	Monitoring Conducted by:	Z. Davis
Permit #'s (cont):	058-010D(SL)	Equipment Field Calibrated by:	Z. Davis
County (Location):	Forsyth	Date of Field Calibration:	3/2/2022
Monitoring Equipment:	RKI Gx-2012	Manufacturer Calibration/Service Date:	6/22/2021

- 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		<u>Monitoring Point</u> Identification	Monitoring Results	
MM-1R	% Methane By Volume:	0.0%	MM-6	% Methane By Volume:	0.0%
Well	% Oxygen:	18.8%	Well	% Oxygen:	18.9%
	Time Sampled:	13:20		Time Sampled:	12:25
MM-2	% Methane By Volume:	0.0%	MM-7	% Methane By Volume:	0.0%
Well	% Oxygen:	20.9%	Well	% Oxygen:	20.9%
	Time Sampled:	12:00		Time Sampled:	12:29
MM-3	% Methane By Volume:	0.0%	MM-8	% Methane By Volume:	0.0%
Well	% Oxygen:	18.1%	Well	% Oxygen:	20.9%
	Time Sampled:	13:12		Time Sampled:	12:34
MM-4	% Methane By Volume:	0.0%	MM-9	% Methane By Volume:	0.0%
Well	% Oxygen:	20.9%	Well	% Oxygen:	20.9%
	Time Sampled:	13:16		Time Sampled:	12:39
MM-5	% Methane By Volume:	0.0%	MM-10	% Methane By Volume:	0.0%
Well	% Oxygen:	17.5%	Well	% Oxygen:	17.0%
	Time Sampled:	13:09		Time Sampled:	12:43

a. Permanent Approved COMPLIANCE Monitoring Locations (continued)

		Monitoring Point		
Monitoring Results		Identification	Monitoring Results	
% Methane By Volume:	0.0%	MM-14	% Methane By Volume:	0.0%
% Oxygen:	20.9%	Well	% Oxygen:	18.6%
Time Sampled:	13:00		Time Sampled:	12:06
% Methane By Volume:	0.0%	MM-15	% Methane By Volume:	0.0%
% Oxygen:	18.0%	Well	% Oxygen:	20.9%
Time Sampled:	12:09]	Time Sampled:	12:03
	% Methane By Volume: % Oxygen: Time Sampled: % Methane By Volume: % Oxygen:	% Methane By Volume: 0.0% % Oxygen: 20.9% Time Sampled: 13:00 % Methane By Volume: 0.0% % Oxygen: 18.0%	Monitoring ResultsIdentification% Methane By Volume:0.0%MM-14% Oxygen:20.9%WellTime Sampled:13:00% Methane By Volume:0.0%MM-15% Oxygen:18.0%Well	Monitoring ResultsIdentificationMonitoring Results% Methane By Volume:0.0%MM-14% Methane By Volume:% Oxygen:20.9%Well% Oxygen:Time Sampled:13:00Time Sampled:Time Sampled:% Methane By Volume:0.0%MM-15% Methane By Volume:% Oxygen:18.0%Well% Oxygen:

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

Facility Structure	Monitoring Results		Facility Structure	Monitoring Results
Tool Shed	% LEL:	0.0%	N/A	% LEL:
	% Methane by Volume:	0.0%		% Methane by Volume:
	% Oxygen:	20.9%		% Oxygen:
	Time Sampled:	13:12		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:	12:50		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:	Sunny							
c.	Temperature:	70 degrees F							
d.	Barometric Conditions:	Rising		Falling		Steady	Х	Reading:	30.16
e.	Relative Humidity 10-90%	6?	Yes	X	No			Range:	19-23%
f.	Condition/Access: Sampl	ing points are p	roperly	/ identified,	secured	, and main	tained?	•	
					Yes	X	No		
lf r	no, please list deficiencies	observed:			_				
All	points were marked with	proper access.							
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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

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.

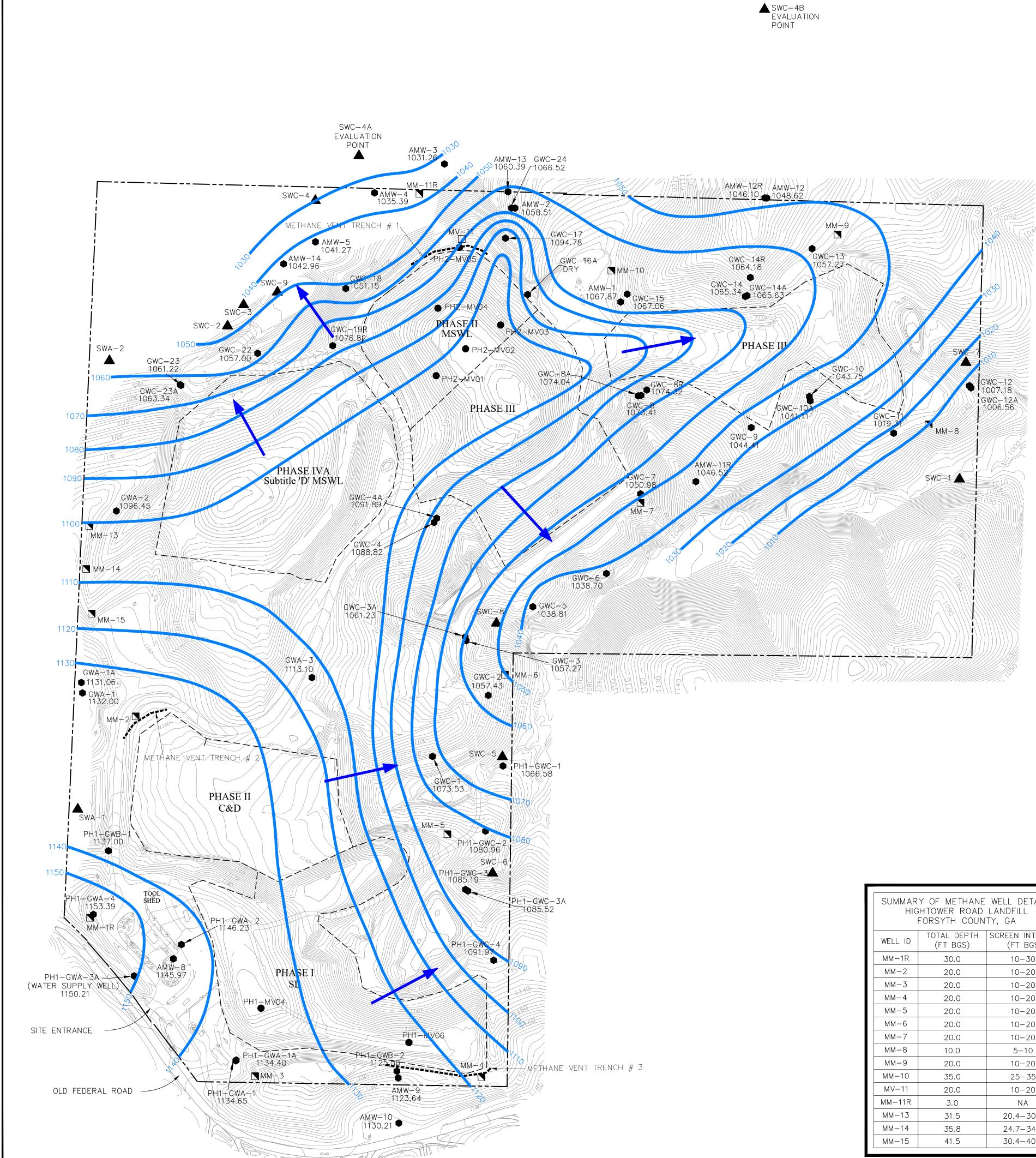
(IF THIS STATEMENT IS NOT SIGNED OR THE FORM IS ALTERED, THE DIVISION WILL NOT ACCEPT THE **RESULTS FROM THE SUBJECT FACILITY.)**

(Signature)

Professional Geologist # 1632 (Title)

3-Mar-2022 (Date)

Charles Adams, 1150 Northmeadow Pkwy., Suite 100, Roswell, GA 30076, (770) 594-5998 (Typed Name, Address, and Telephone Number)



SUMMARY OF METHANE WELL DETAILS HIGHTOWER ROAD LANDFILL FORSYTH COUNTY, GA				
WELL ID	TOTAL DEPTH (FT BGS)	SCREEN INTERVAL (FT BGS)		
MM-1R	30.0	10-30		
MM-2	20.0	10-20		
MM-3	20.0	10-20		
MM-4	20.0	10-20		
MM-5	20.0	10-20		
MM-6	20.0	10-20		
MM-7	20.0	10-20		
MM-8	10.0	5-10		
MM-9	20.0	10-20		
MM-10	35.0	25-35		
MV-11	20.0	10-20		
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		

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MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	WA (
	PHA	ASE II — IV WE	ELLS
GWC-10A	54.30	1066.45	
GWC-11	46.80	1054.08	
GWC-12	40.06	1038.06	
GWC-12A	49.44	1038.09	
GWC-13	44.95	1090.82	
GWC-14	28.37	1089.49	
GWC-14A	64.75	1089.32	
GWC-14R	93.61	1078.60	
GWC-15	62.84	1125.68	
GWC-16A	51.05	1136.49	
GWC-17	21.59	1107.78	
GWC-18	52.70	1094.87	
GWC-19R	39.87	1105.79	
GWC-22	35.05	1079.01	
GWC-23	32.22	1079.06	
GWC-23A	61.67	1079.10	
GWC-24	44.09	1102.32	
AMW-1	180.70	1130.04	
AMW-2	150.00	1101.96	
AMW-3	31.30	1041.09	
AMW-4	18.80	1040.09	
AMW-5	23.06	1049.32	
AMW-11R	58.10	1053.63	
AMW-12	19.56	1056.85	
AMW-12R	46.43	1056.34	
AMW-13	36.18	1093.09	
AMW-14	21.70	1052.73	

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	ORSYTH COUN	ROUNDWATER E TY — HIGHTOWE R 2021 SAMPLII	ĒR
MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	W
		PHASE I WELLS	5
PH1-GWA-1	48.66	1176.37	
PH1-GWA-1A	108.00	1176.35	
PH1-GWA-2	53.60	1183.40	
PH1-GWA-3A	250.00	1187.16	
PH1-GWA-4	57.00	1191.14	
PH1-GWB-1	53.80	1179.10	
PH1-GWB-2	42.22	1155.04	
PH1-GWC-1	23.79	1074.66	
PH1-GWC-2	127.61	1103.93	
PH1-GWC-3	23.42	1096.96	
PH1-GWC-3A	55.42	1096.28	
PH1-GWC-4	33.71	1124.26	
GWC-1	38.80	1102.25	
AMW-8	50.40	1186.23	
AMW-9	41.69	1162.64	
AMW-10	56.81	1180.73	
	PH	ASE II - IV WE	LLS
GWA-1	62.85	1187.70	
GWA-1A	141.00	1187.49	
GWA-2	52.18	1137.30	
GWA-3	48.86	1154.53	
GWC-2	55.61	1103.64	
GWC-3	39.71	1092.39	
GWC-3A	68.95	1094.67	
GWC-4	49.81	1132.82	
GWC-4A	89.23	1132.39	
GWC-5	49.91	1084.55	
GWC-6	34.52	1064.01	
GWC-7	54.21	1093.44	
GWC-8	27.53	1095.63	
GWC-8A	46.71	1095.44	
GWC-8R	94.67	1098.40	
GWC-9	60.50	1093.58	
GWC-10	37.51	1068.56	

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NOMMETRE LEVATOR DATA THE CITEMENT DELEVATION (21 SAVELING FVENU 21 SAVELING 21 SAVELING FVENU 21 SAVELING 21 SA				5. LOCATIONS OF AMW-2 AND AMW-3 ARE APPROXIMATE.
C21 SAMPLING EVENT C DeFIN TO (F) MSU DeFIN TO (F) MSU TOC. (F) MSU DeFIN TO (F) MSU GROUNDWAILS (F) MSU E MELLS 1176.37 41.72 1134.65 1176.37 41.72 1134.65 1134.40 1176.37 41.72 1135.38 0.1XTAL ISSUE 02/11/2002 1187.16 36.95 1135.38 0.1XTAL ISSUE 02/11/2002 1176.17 1085.58 1026.58 0.1XTAL ISSUE 02/11/2002 1174.26 32.89 1095.18 1026.23 1037.35 1186.23 40.26 1133.20 1133.20 1187.70 55.70 1132.00 FORSYTH COUNTY 1173.30 40.25 1037.43 1133.06 1133.30 40.25 1037.43 1133.06 1133.24 40.63 1037.43 1037.27 1132.39 40.63 1037.43 1037.43 1132.39 40.63 1037.43 1037.43 1132.39 40.63 1037.43 1037.43 1132.39 40.63 1037.43 1037.43				POTENTIOMETRIC CONTOURS. 7. POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET.
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