

## Periodic Methane Monitoring Report

1st Quarter / 2021  
Quarter or Month / Year

<b>Facility Name:</b> <u>Eagle Point Landfill</u>	<b>Date(s) of Monitoring:</b> <u>1/4/2021</u>
<b>Facility Permit #'s:</b> _____	<b>Monitoring Conducted by:</b> <u>EM Services</u>
<b>Permit #'s (cont):</b> <u>058-012D(MSWL)</u>	<b>Equipment Field Calibrated by:</b> <u>N. Walker</u>
<b>County (Location):</b> <u>Forsyth</u>	<b>Date of Field Calibration:</b> <u>1/4/2021</u>
<b>Monitoring Equipment:</b> <u>RKI Eagle 2</u>	<b>Manufacturer Calibration/Service Date:</b> <u>01/04/2021</u>

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, 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

<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>	<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>
MM-1S Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>20.3%</u> Time Sampled: <u>1530</u>	MM-4 Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>20.7%</u> Time Sampled: <u>1502</u>
MM-1D Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>19.8%</u> Time Sampled: <u>1533</u>	MM-5 Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>17.8%</u> Time Sampled: <u>1315</u>
MM-2S Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>19.5%</u> Time Sampled: <u>1517</u>	MM-6 Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>20.9%</u> Time Sampled: <u>1320</u>
MM-2D Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>18.7%</u> Time Sampled: <u>1520</u>	MM-7 Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>12.9%</u> Time Sampled: <u>1325</u>
MM-3S Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>19.3%</u> Time Sampled: <u>1507</u>	MM-8S Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>17.4%</u> Time Sampled: <u>1331</u>
MM-3D Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>17.6%</u> Time Sampled: <u>1510</u>	MM-8D Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>17.5%</u> Time Sampled: <u>1334</u>

**a. Permanent Approved COMPLIANCE Monitoring Locations (cont'd)**

Monitoring Point

<u>Identification</u>	<u>Monitoring Results</u>				<u>Monitoring Results</u>		
<u>MM-9A</u> Well	% Methane By Volume:	<u>0%</u>		<u>MM-10</u> Well	% Methane By Volume:	<u>0%</u>	
	% Oxygen:	<u>18.3%</u>			% Oxygen:	<u>18.4%</u>	
	Time Sampled:	<u>1356</u>			Time Sampled:	<u>1357</u>	
<u>MM-9S</u> Well	% Methane By Volume:	<u>0%</u>		<u>MM-11</u> Well	% Methane By Volume:	<u>0%</u>	
	% Oxygen:	<u>17.6%</u>			% Oxygen:	<u>15.1%</u>	
	Time Sampled:	<u>1339</u>			Time Sampled:	<u>1352</u>	
<u>MM-9D</u> Well	% Methane By Volume:	<u>0%</u>					
	% Oxygen:	<u>16.9%</u>					
	Time Sampled:	<u>1342</u>					

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

<u>Facility Structure</u>	<u>Monitoring Results</u>			<u>Facility Structure</u>	<u>Monitoring Results</u>		
<u>MM-12</u> Scale House	% LEL:	<u>0%</u>		<u>MM-15</u> Maintenance Shop	% LEL:	<u>0%</u>	
	% Methane by Volume:	<u>0%</u>			% Methane by Volume:	<u>0%</u>	
	% Oxygen:	<u>20.9%</u>			% Oxygen:	<u>20.9%</u>	
	Time Sampled:	<u>1413</u>			Time Sampled:	<u>1419</u>	
<u>MM-13</u> Storage Shed A	% LEL:	<u>0%</u>		<u>MM-16</u> Break Trailer	% LEL:	<u>0%</u>	
	% Methane by Volume:	<u>0%</u>			% Methane by Volume:	<u>0%</u>	
	% Oxygen:	<u>20.9%</u>			% Oxygen:	<u>20.9%</u>	
	Time Sampled:	<u>1407</u>			Time Sampled:	<u>1401</u>	
<u>MM-13</u> Storage Shed B	% LEL:	<u>0%</u>		<u>MM-17</u> Operations Trailer	% LEL:	<u>0%</u>	
	% Methane by Volume:	<u>0%</u>			% Methane by Volume:	<u>0%</u>	
	% Oxygen:	<u>20.9%</u>			% Oxygen:	<u>20.9%</u>	
	Time Sampled:	<u>1410</u>			Time Sampled:	<u>1404</u>	
<u>MM-14</u> Office	% LEL:	<u>0%</u>		<u>MM-18</u> Pump Maint. Bldg.	% LEL:	<u>0%</u>	
	% Methane by Volume:	<u>0%</u>			% Methane by Volume:	<u>0%</u>	
	% Oxygen:	<u>20.9%</u>			% Oxygen:	<u>20.9%</u>	
	Time Sampled:	<u>1416</u>			Time Sampled:	<u>1422</u>	

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

Monitoring Point

<u>Identification</u>	<u>Monitoring Results</u>		
<u>N/A</u>	% Methane By Volume:	<u>          </u>	
	% Oxygen:	<u>          </u>	
	Time Sampled:	<u>          </u>	

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

<u>Off-site Structure</u>	<u>Monitoring Results</u>
N/A	% LEL: _____
	% Methane by Volume: _____
	% Oxygen: _____
	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: Dry
- b. Weather Conditions: Sunny
- c. Temperature: 54 - 56 °F
- d. Barometric Conditions: Rising \_\_\_\_\_ Falling x Steady \_\_\_\_\_ Reading: 30.05 - 30.03 "
- e. Relative Humidity 10%-90%? Yes \_\_\_\_\_ No x Range: 45 - 49 %
- f. Condition/Access: Sampling points are properly identified, secured and maintained? Yes \_\_\_\_\_ No x

If no please list deficiencies observed:

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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.

None noticed

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**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 are opened and tested immediately.

Peak readings are recorded.

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6. **Additional Comments**

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EM Services uses the RKI Eagle 2 for monitoring. Operating manual can be found at:  
Eagle - <http://www.rkiinstruments.com/pdf/71-0154RK.pdf>

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**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)

Owner, EM Services  
\_\_\_\_\_  
(Title)

1/6/2021  
\_\_\_\_\_  
(Date)

Jeff Johnson  
Environmental Monitoring Services  
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\_\_\_\_\_  
(Typed Name, Address, and Telephone Number)