

July 5, 2023

Ms. Cindy Koepke  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Re: DNR BRRTS Activity #02-33-582970  
Landfill Gas Monitoring, Darlington City Historic Landfill  
149 Wells Street, Darlington, WI  
Monitoring Results, June 2023

Dear Ms. Koepke:

Ayres Associates Inc (Ayres), on behalf of the City of Darlington (City), is providing the results of the June 2023 landfill gas monitoring conducted at 149 Wells Street. This is the third round of quarterly monitoring requested by the Wisconsin Department of Natural Resources (WDNR) in email correspondence dated October 10, 2022.

### Results Discussion

Landfill gas monitoring was conducted on June 13, 2023, at 11 sampling locations using a calibrated Landtec GEM 2000 landfill gas meter. Six of the locations are gas extraction wells designated with the GW identifier. The other five locations are soil gas probes designated with the identifier of GP. This round of monitoring did not indicate concentrations of methane at any location. The attached data sheet summarizes the results of the June 13, 2023, gas monitoring event.

### Indoor Air Alarms

The three alarms located within the Piggly Wiggly grocery were tested for an audible alert. All three alarms were operating properly when tested. Another alarm located in an office on the northeast end of the strip mall building could not be tested as the space was unoccupied and could not be accessed. To date, no audible alarms have been noted within the building from tenants or the landlord.

### Next Sampling Round

The next round of quarterly landfill gas monitoring will be conducted prior to October 1, 2023.

Sincerely,

Ayres Associates Inc



Thomas P. Gaieck, PG  
Hydrogeologist

TG:ac

Enclosure

cc: Jeremy Williams – City of Darlington

Darlington  
13-Jun-23

**Table 1: Methane Gas Monitoring Results**

ID	Sampler	Time	CH4 %	CO2 %	O2 %	Balance Gas	Barometric Pressure (inHg)	Barometric Trend	Relative Humidity	Wind Speed / Direction	Air Temp. (°F)	Cloud Cover	Precipitation	Valve Open (%)	Comments
GW-9R	TG	14:18	0.0	0.0	20.7	79.1	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GW-13R	TG	14:27	0.0	0.0	20.4	79.6	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GW-14R	TG	14:24	0.0	0.0	20.6	79.4	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GW-106R	TG	15:08	0.0	0.0	20.3	79.7	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GW-20R	TG	14:42	0.0	3.5	12	84.5	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GW-22R	TG	14:53	0.0	5.5	12.2	82.3	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GP-101	TG	14:57	0.2	0.0	20.2	79.8	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GP-104	TG	14:49	0.0	3.8	15.1	81.1	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GP-105	TG	14:35	0.0	2.4	18.4	79.2	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GP-106	TG	14:31	0.0	0.0	20.4	79.6	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
GP-108	TG	15:03	0.0	0.1	20.2	79.7	28.56	Steady	40%	10 mph/NW	75	95%	0.0	100%	
BLOWER Port	TG	15:11	0.0	0.2	20.0	79.8	28.56	Steady	40%	10 mph/NW	75	95%	0.0	N/A	