

HTW BCT, December 8, 2022

Q4 2022 Key Events for OU2 Landfills

- Quarterly Probe monitoring (completed 11/29)
- MCHD Inspection (scheduled 11/30)
- TTU Operations (ongoing)
- Rodent Trapping (ongoing)
- Landfill winterization
- Annual owl box cleaning (completed 11/16)

Q1 2023 Key Events for OU2 Landfills

- TTU Operations (ongoing)
- Rodent Trapping (ongoing)



Ahtna

**Thermal Treatment Unit
Operation Summary
2006 - 2022**

TREATMENT SYSTEM OPERATION SUMMARY	
Treatment System Start Date:	6/4/2001
TTU Start Date:	4/4/2006
Last Reading Date/Time:	11/23/2022 13:17
Historical through 2021 (TTU only):	
Total TTU Hours:	137,952
Total TTU Hours Operated:	38,438
% TTU Operation:	27.9%
Total Pounds of Methane Removed:	3,909,694
Current Year 2022:	
Total Hours:	7,968
Total Hours Operated:	869
% TTU Operation:	11%
Total Pounds of Methane Removed:	74,152
Cumulative (since TTU startup in 2006):	
% TTU Operation:	26.9%
Total Pounds of Methane Removed:	3,983,846

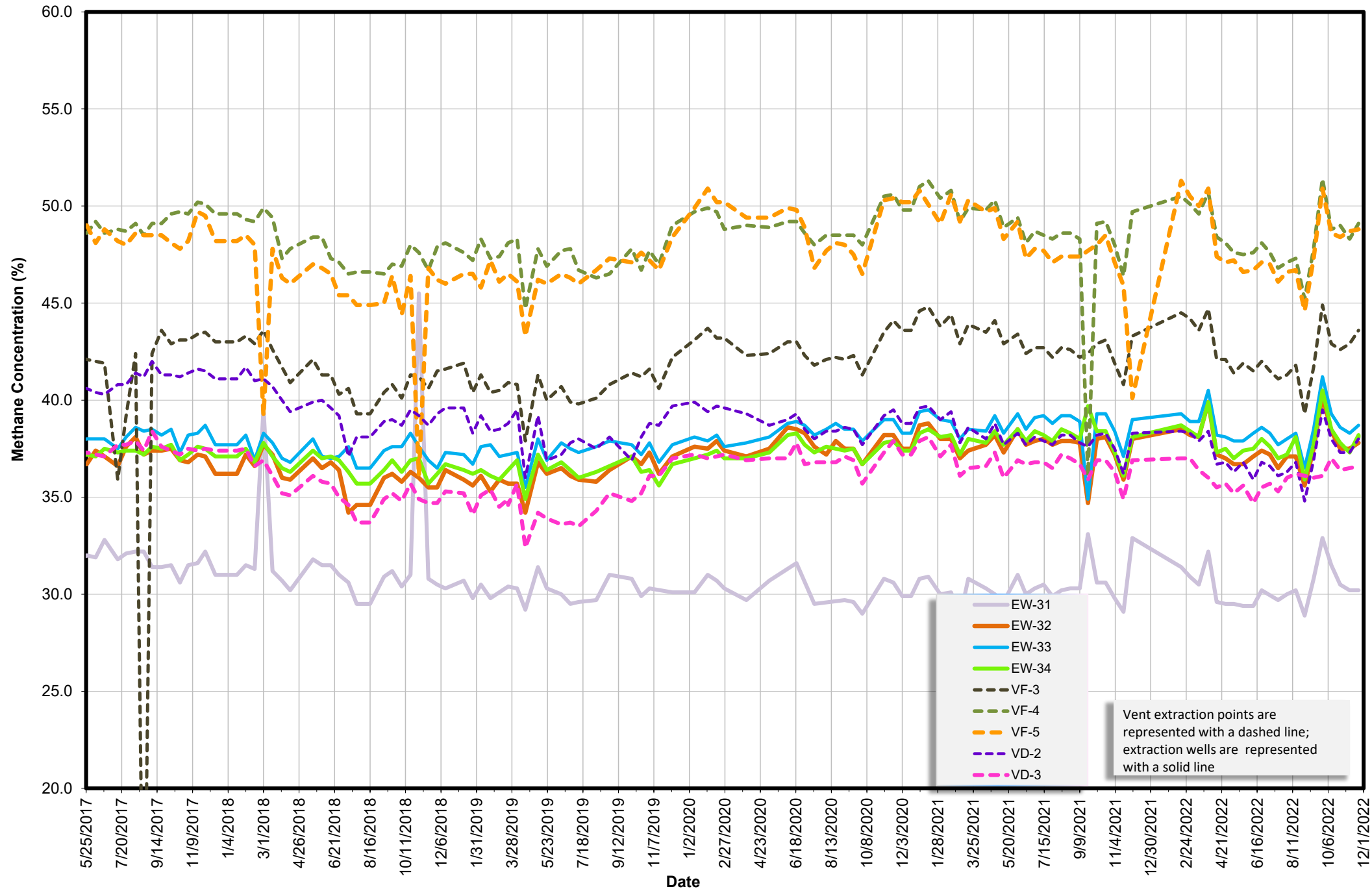
**Thermal Treatment Unit
Operation Summary
2006 - 2022**

Year	Operating Hours	Change from Previous Year	Methane			OU2 Groundwater COCs	
			Pounds Removed	Change from Previous Year	Pounds/week	Pounds Removed	Change from Previous Year
2007	4,035		532,130		10,205	6.2	
2008	2,838	-30%	288,458	-46%	5,532	3.1	-51%
2009	4,493	58%	448,154	55%	8,595	3.4	11%
2010	2,421	-46%	212,681	-53%	4,079	1.4	-60%
2011	2,543	5%	228,082	7%	4,374	1.4	0%
2012	2,509	-1%	229,397	1%	4,399	1.2	-13%
2013	2,116	-16%	187,779	-18%	3,601	1.1	-8%
2014	1,961	-7%	174,427	-7%	3,345	1.0	-11%
2015	2,653	35%	237,571	36%	4,556	1.3	29%
2016	2,039	-23%	178,645	-25%	3,426	0.9	-28%
2017	1,554	-24%	135,711	-24%	2,603	0.6	-33%
2018	1,661	7%	145,174	7%	2,784	0.6	-9%
2019	1,227	-26%	113,443	-22%	2,176	0.6	9%
2020	1,316	7%	113,095	0%	2,169	0.6	0%
2021	1,158	-12%	173,426	53%	3,326	0.4	-34%
2022	869		74,152		1,559		

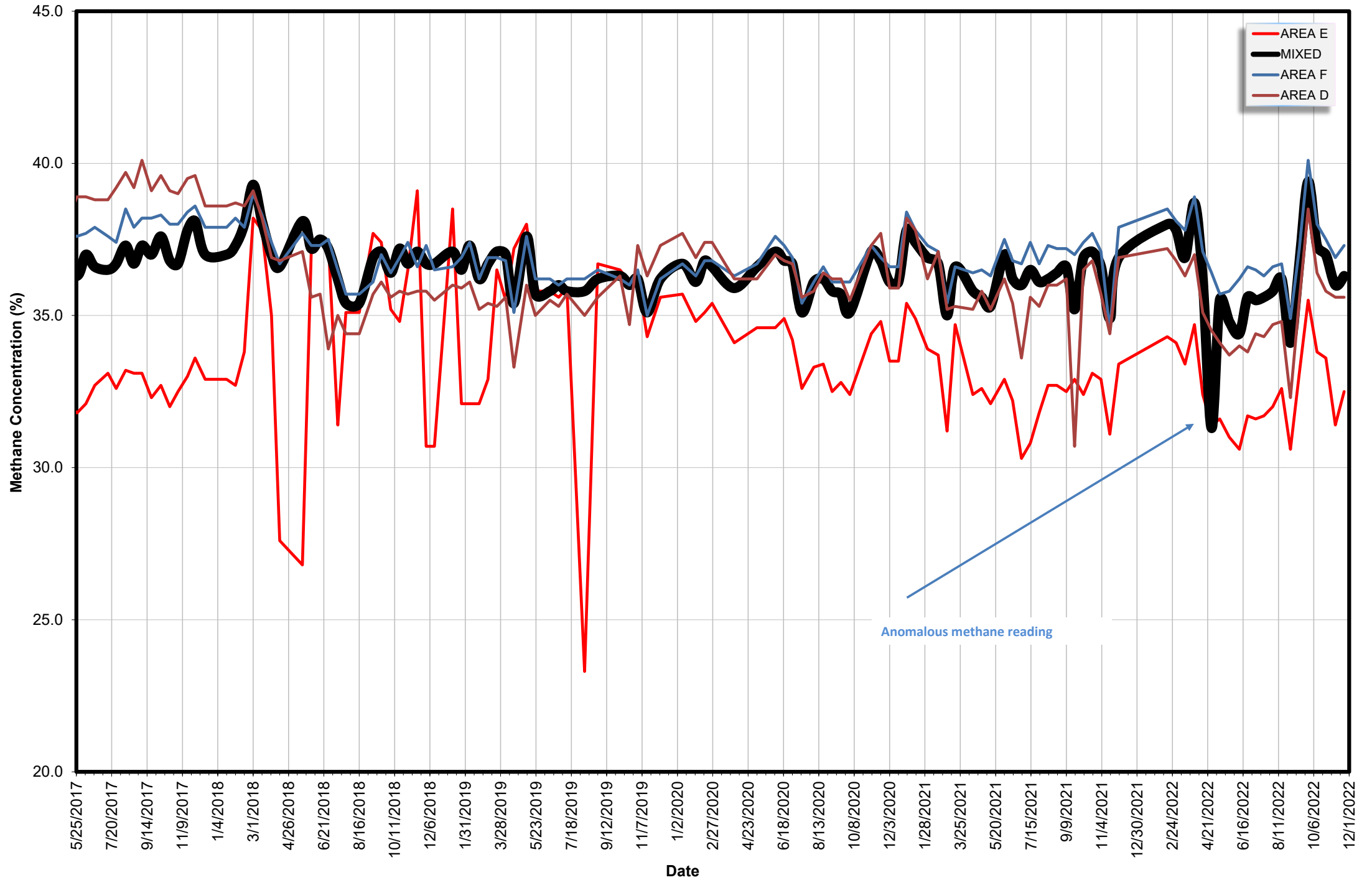
**Thermal Treatment Unit
Operation Summary
2006 - 2022**

EXTRACTION SYSTEM (2022)						
Location	Last Instantaneous Methane Reading (%)	Last Instantaneous Flow Rate Reading (scfm)	Current Methane Removal Rate (lbs/day)	2022 % Operation	2021 Methane Removed (Lbs)	% Contribution of Each Extraction Source
Area E						
EP-36	32.5	25.0	479.2	5%	39643.1	23%
Area F						
VF-3	43.6	4.1	105.4	5%	8939.2	3%
VF-4	49.1	3.9	112.9	5%	2501.2	1%
VF-5	48.8	3.0	86.4	4%	7098.1	2%
EW-31	30.2	1.7	30.3	5%	2870.7	2%
EW-32	37.8	11.9	265.3	5%	31,360	19%
EW-33	38.7	12.6	287.6	5%	30,616	18%
EW-34	38.2	14.8	333.5	5%	38,063	23%
Area D						
VD-2	38.0	2.5	56.0	5%	4408.8	1%
VD-3	36.6	2.5	54.0	5%	3447.7	1%
MIXED						
MIXED	36.3	96.0	2055.5	5%	169185.1	100%

Methane Concentration Time Series Plot
OU2 Landfill Individual Extraction Sources
5/2017 to present

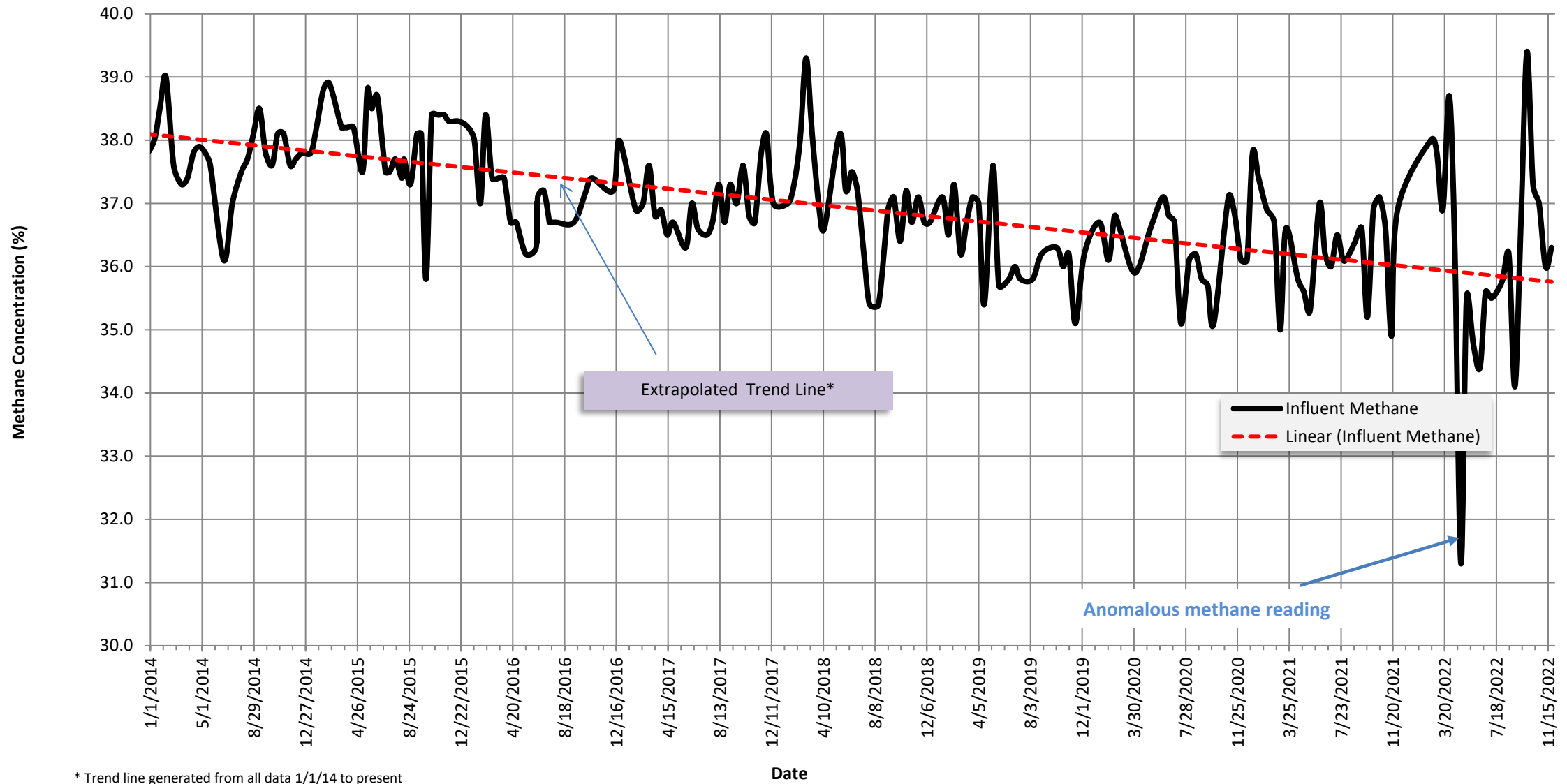


Methane Concentration Time Series Plot
OU2 Landfill Extraction Legs
5/2017 to present



Anomalous methane reading

Methane Concentration Time Series Plot
Thermal Treatment Unit Influent
01/01/2014 to present



* Trend line generated from all data 1/1/14 to present