

HTW BCT, February 10, 2023

Q1 2023 Key Events for OU2 Landfills

- Landfill Vegetative Cover Erosion Mitigation
- Landfill winterization
- MCHD Quarterly Inspection
- Quarterly Probe Monitoring
- TTU Operations (ongoing)
- Rodent Trapping (ongoing)

Q2 2023 Key Events for OU2 Landfills

- Annual VOC Monitoring (Compliance Probes)
- Annual Probe Monitoring (Fixed Gases)
- Annual TTU Source Test
- MCHD Quarterly Inspection
- Vegetative Cover Repairs
- TTU Operations (ongoing)
- Rodent Trapping (ongoing)



Ahtna

**Thermal Treatment Unit
Operation Summary
2006 - 2023**

TREATMENT SYSTEM OPERATION SUMMARY	
Treatment System Start Date:	6/4/2001
TTU Start Date:	4/4/2006
Last Reading Date/Time:	1/18/2023 0:00
Historical through 2022 (TTU only):	
Total TTU Hours:	146,712
Total TTU Hours Operated:	38,527
% TTU Operation:	26.3%
Total Pounds of Methane Removed:	3,917,427
Current Year 2023:	
Total Hours:	744
Total Hours Operated:	101
% TTU Operation:	14%
Total Pounds of Methane Removed:	8,773
Cumulative (since TTU startup in 2006):	
% TTU Operation:	26.2%
Total Pounds of Methane Removed:	3,926,200

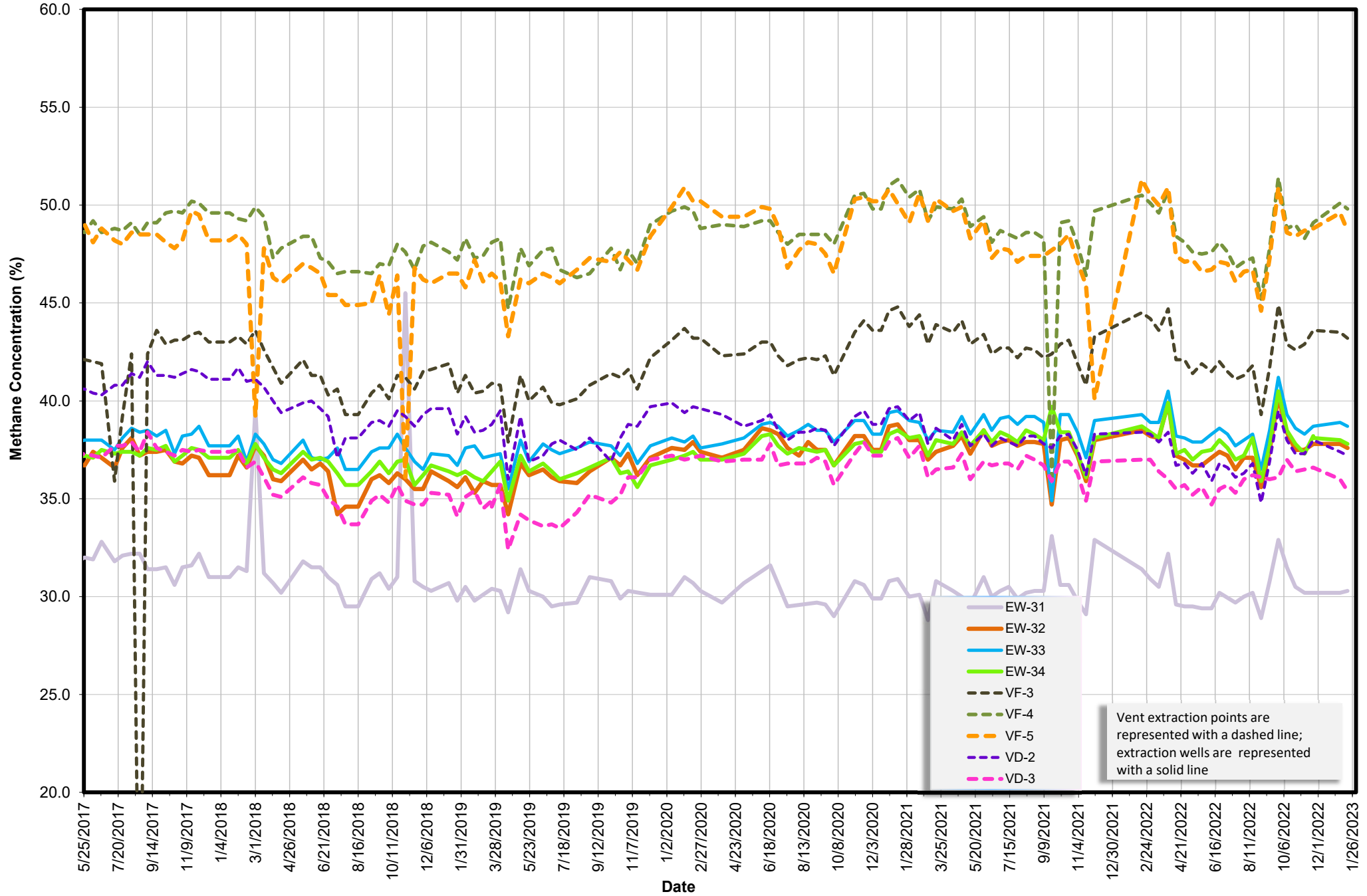
**Thermal Treatment Unit
Operation Summary
2006 - 2023**

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%	99,275	-12%	1,904	0.4	-34%
2022	959	-17%	81,884	-18%	1,570		
2023	86		8,773		1,919		

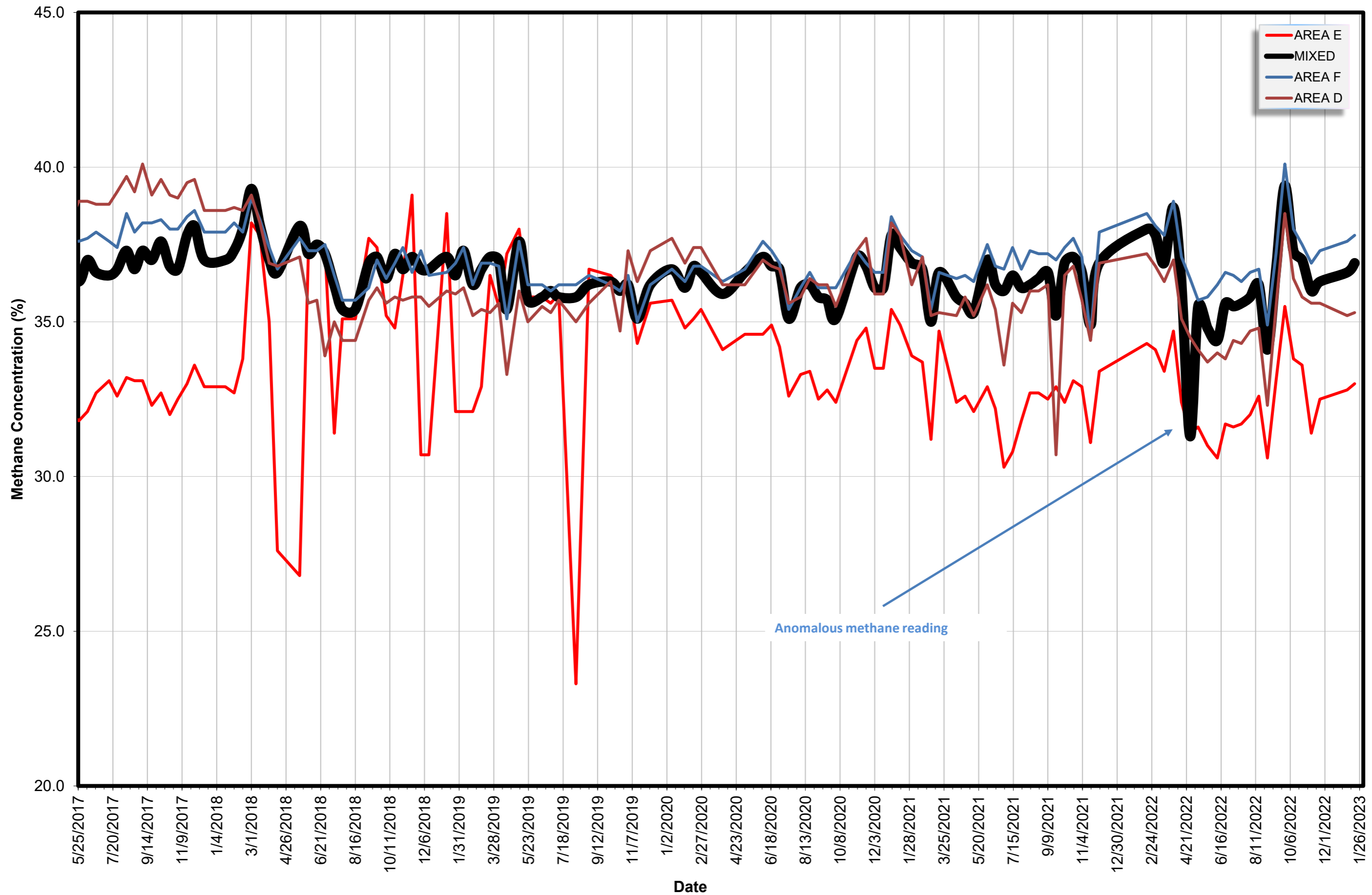
**Thermal Treatment Unit
Operation Summary
2006 - 2023**

EXTRACTION SYSTEM (2023)						
Location	Last Instantaneous Methane Reading (%)	Last Instantaneous Flow Rate Reading (scfm)	Current Methane Removal Rate (lbs/day)	2023 % Operation	2021 Methane Removed (Lbs)	% Contribution of Each Extraction Source
Area E						
EP-36	33.0	25.0	486.6	0.2%	2045.4	27%
Area F						
VF-3	43.2	4.1	104.5	0.2%	442.1	3%
VF-4	49.8	3.9	114.6	0.2%	484.6	3%
VF-5	48.7	3.0	86.2	0.2%	366.9	3%
EW-31	30.3	1.7	30.4	0.2%	127.9	2%
EW-32	37.6	11.9	263.9	0.2%	1,116	15%
EW-33	38.7	12.6	287.6	0.2%	1,216	16%
EW-34	37.8	14.4	321.1	0.2%	1,358	18%
Area D						
VD-2	37.2	2.5	54.9	0.2%	232.0	2%
VD-3	35.4	2.5	52.2	0.2%	222.1	2%
MIXED						
MIXED	36.9	96.0	2089.5	0.2%	8772.9	100%

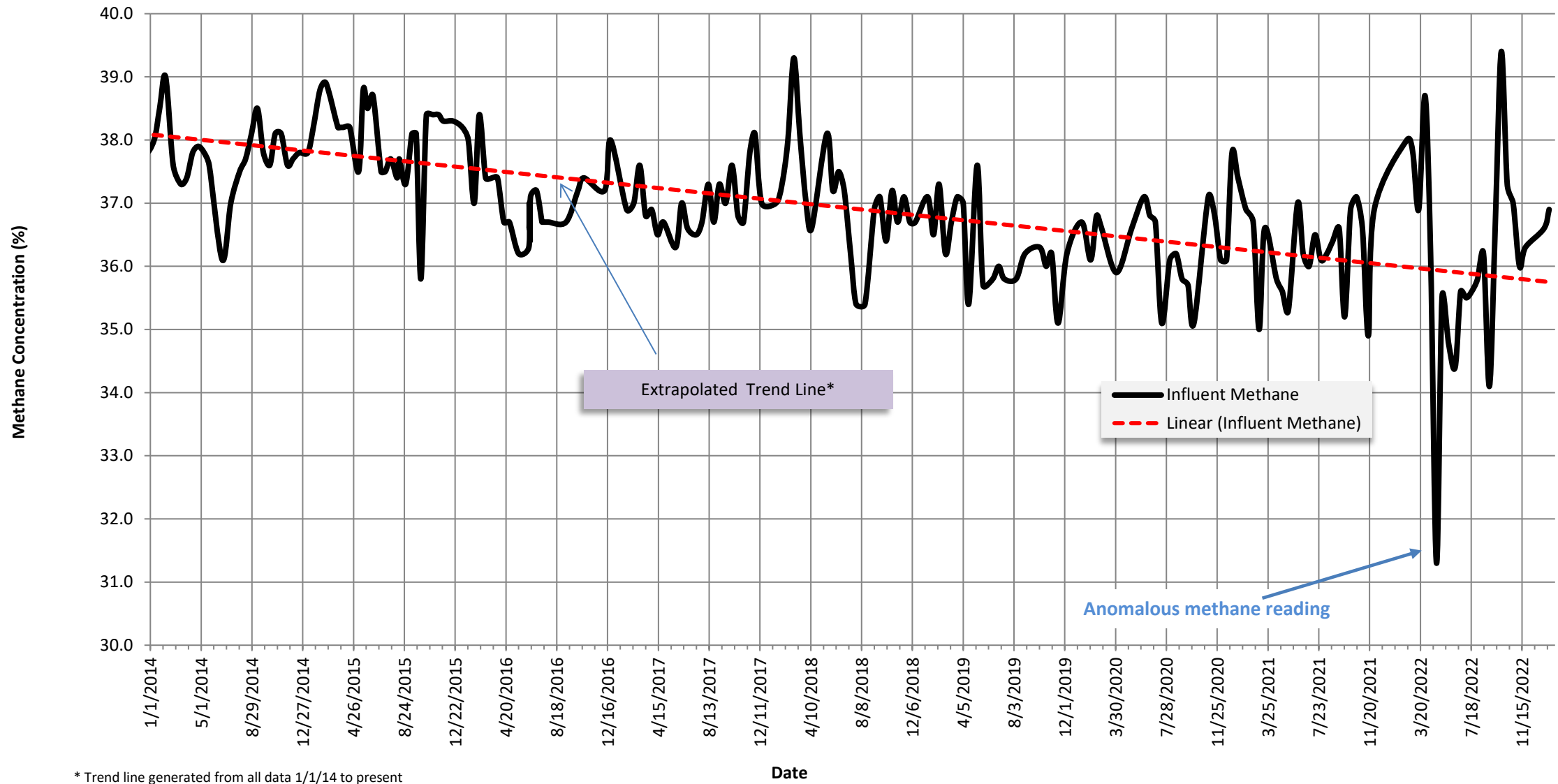
Methane Concentration Time Series Plot
OU2 Landfill Individual Extraction Sources
5/2017 to present



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



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