

HTW BCT, September 21, 2022

Q3 2022 Key Events for OU2 Landfills

- Quarterly Probe monitoring (completed 8/22)
- MCHD Inspection (completed 8/22)
- TTU Operations (ongoing)
- Rodent Trapping (ongoing)
- Annual mowing (scheduled for either weeks of September 26/October 3)

Q4 2022 Key Events for OU2 Landfills

- Quarterly Probe monitoring
- MCHD Inspection
- Annual owl box cleaning (scheduled around November 6 time change)



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:	9/13/2022 17:21
Historical through 2021 (TTU only):	
Total TTU Hours:	137,952
Total TTU Hours Operated:	38,261
% TTU Operation:	27.7%
Total Pounds of Methane Removed:	3,894,271
Current Year 2022:	
Total Hours:	6,288
Total Hours Operated:	693
% TTU Operation:	11%
Total Pounds of Methane Removed:	58,729
Cumulative (since TTU startup in 2006):	
% TTU Operation:	27.0%
Total Pounds of Methane Removed:	3,953,001

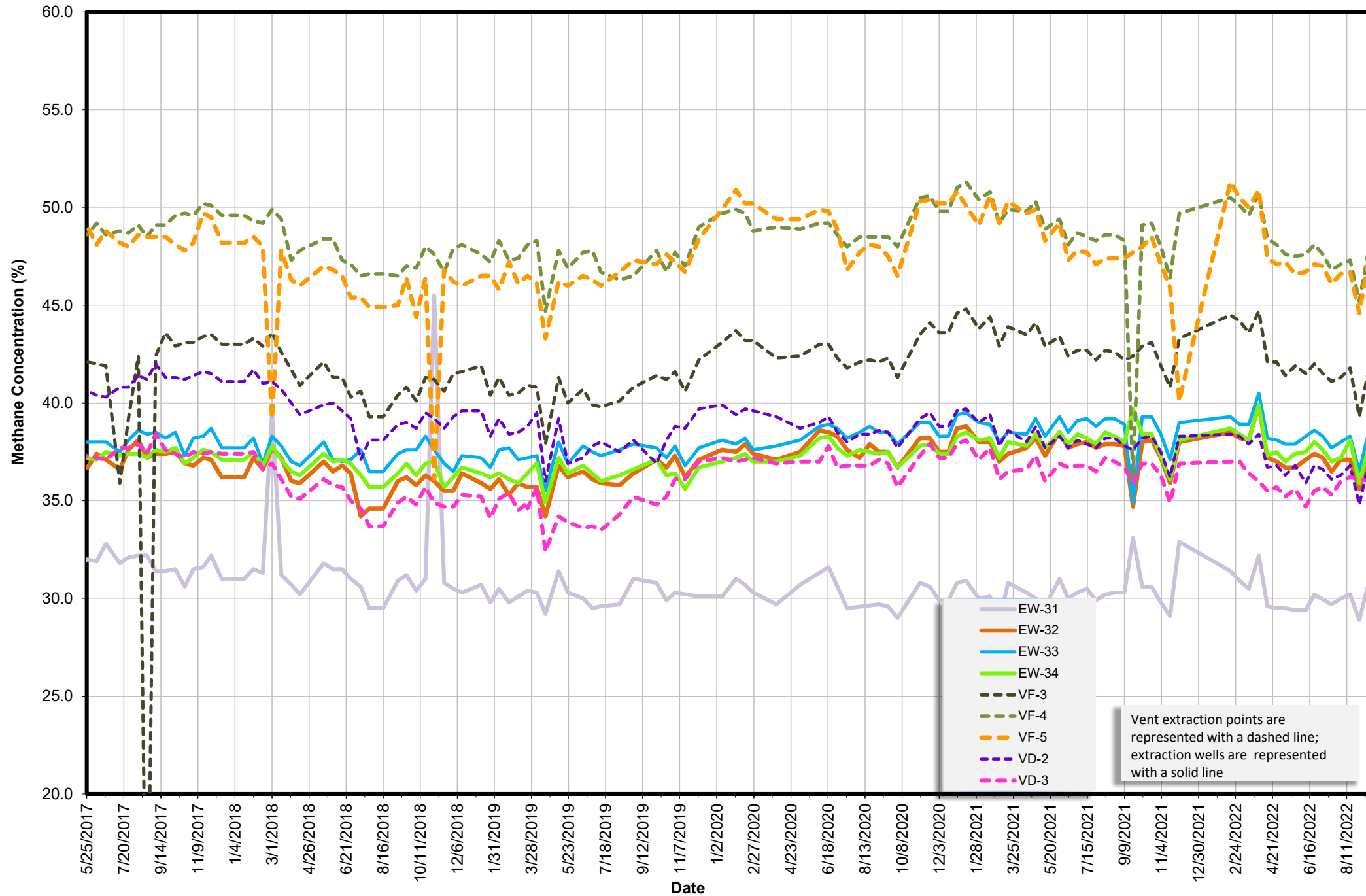
**Thermal Treatment Unit
Operation Summary
2006 - 2022**

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	1,150	-13%	158,004	40%	3,030	0.4	-34%
2022	693		58,729		1,563		

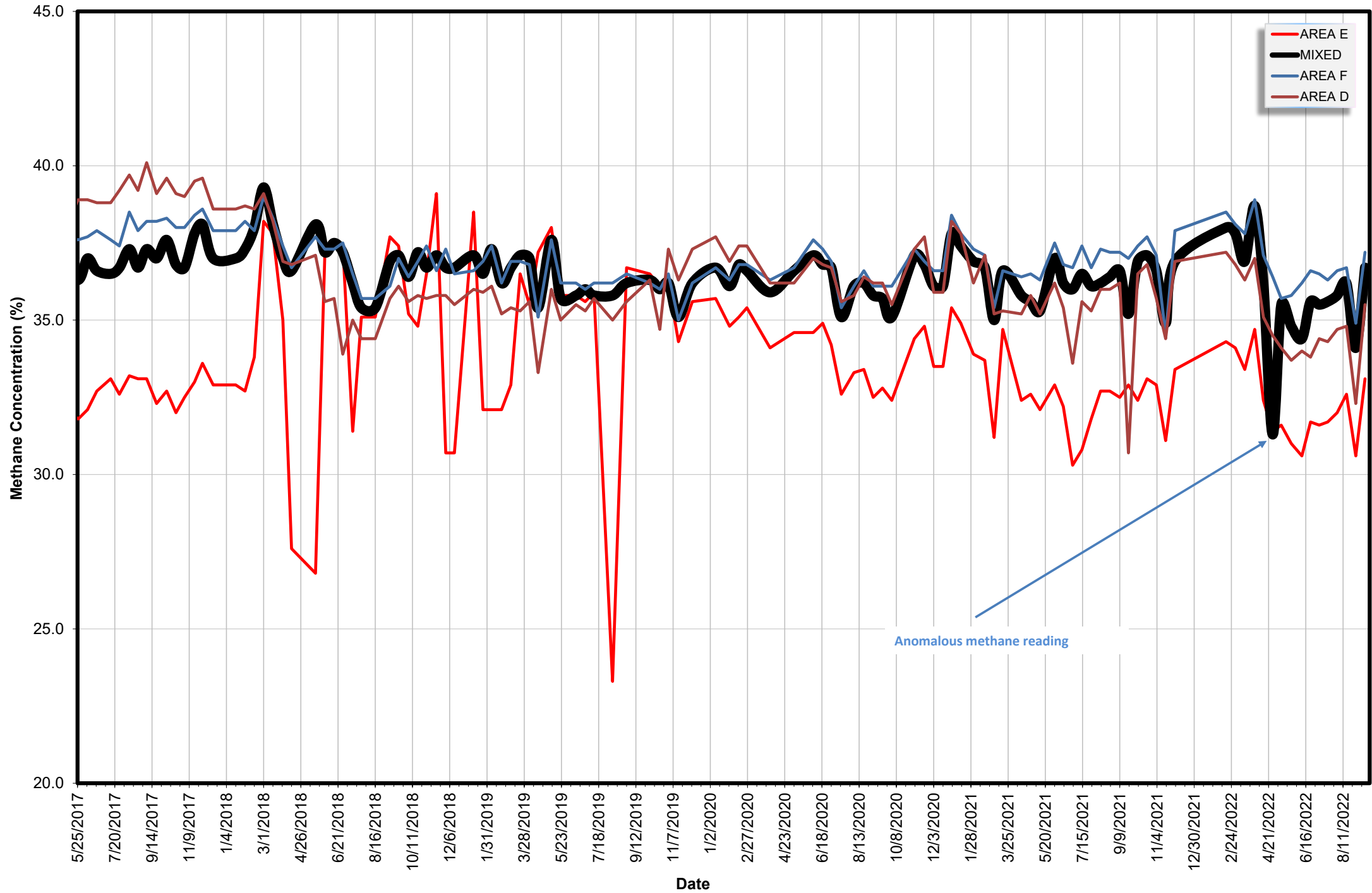
**Thermal Treatment Unit
Operation Summary
2006 - 2022**

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	33.1	25.0	488.1	4%	36051.0	23%
Area F						
EW-31	30.8	2.7	49.1	4%	2633.6	2%
EW-32	37.5	14.0	309.7	4%	29,134	19%
EW-33	38.5	14.2	322.5	4%	28,292	18%
EW-34	37.7	16.8	373.6	4%	35,317	23%
VF-3	41.7	5.7	140.2	4%	7931.2	5%
VF-4	47.8	5.5	155.1	4%	2501.2	2%
VF-5	47.3	4.4	122.8	4%	6248.8	4%
Area D						
VD-2	36.9	4.4	95.8	4%	3596.8	2%
VD-3	36.0	3.8	80.7	4%	2928.1	2%
MIXED						
MIXED	36.7	96.0	2078.1	4%	153762.6	100%

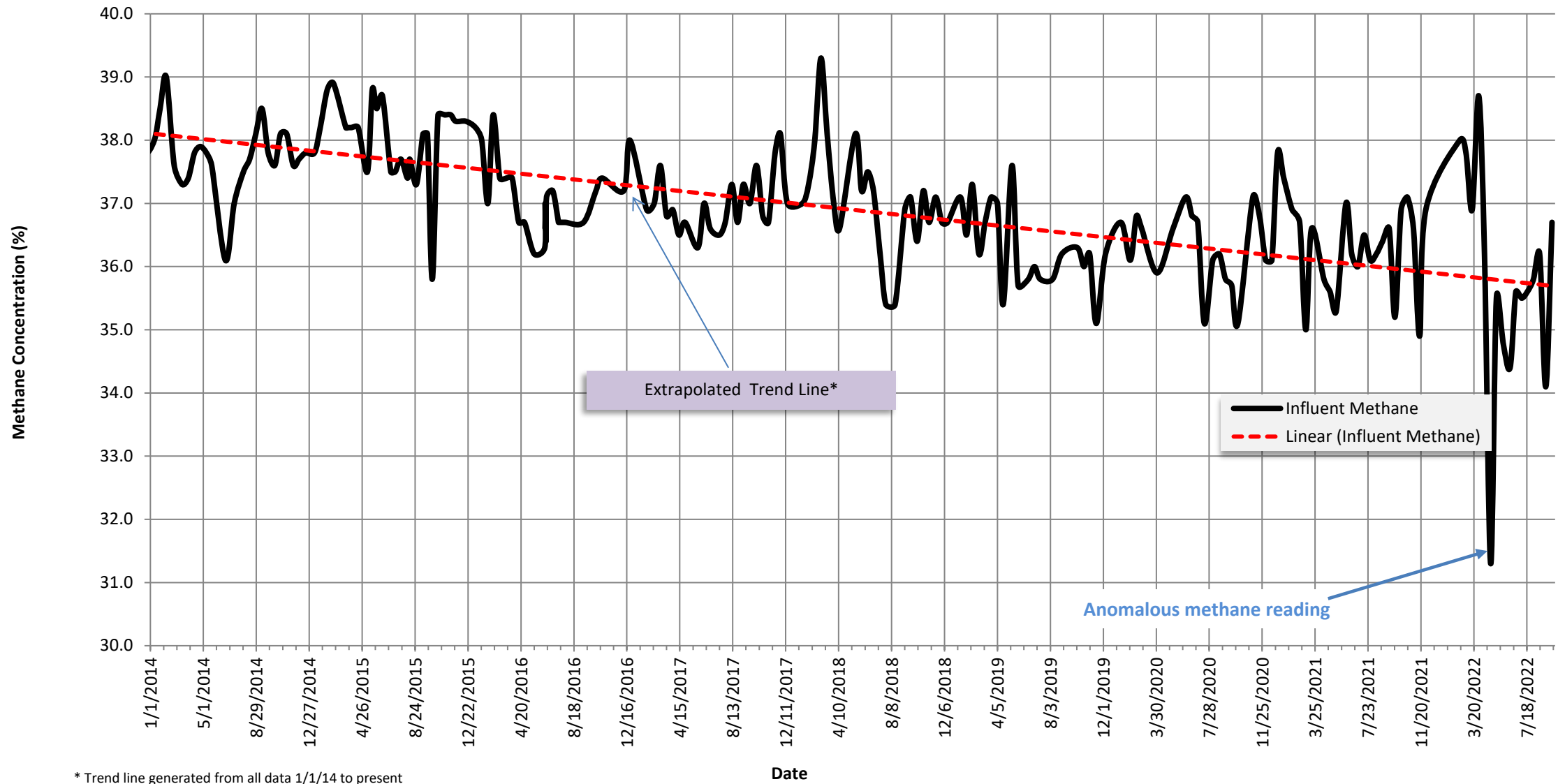
Methane Concentration Time Series Plot
OU2 Landfill Individual Extraction Sources
5/2017 to present



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