

HTW BCT, July 14, 2021

July – August 2021 Key Events for OU2 Landfills

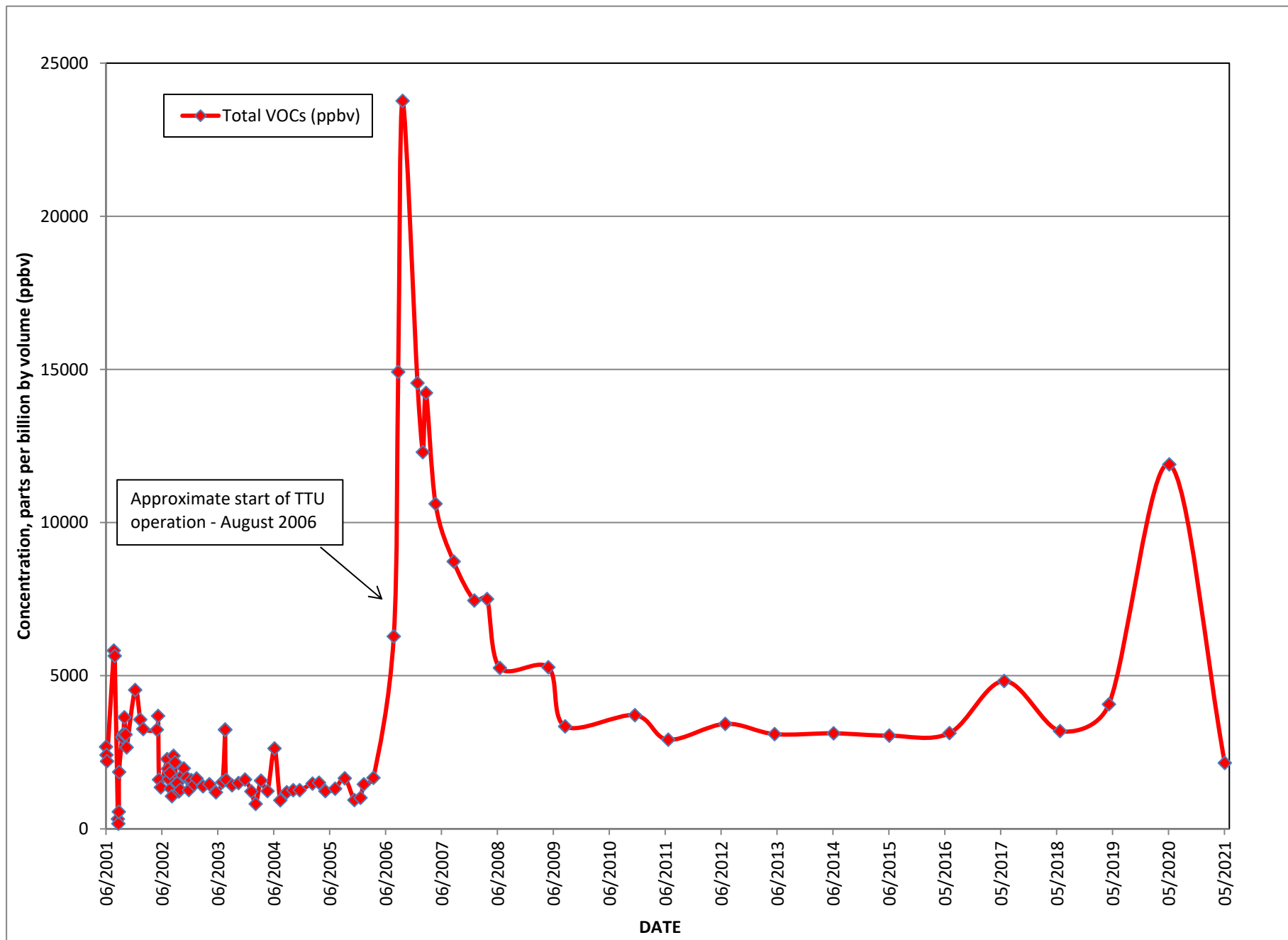
- TTU Operations
- Annual Engineering Inspection (Aug 6)
- Rodent Trapping

September – October 2021 Key Events for OU2 Landfills

- TTU Operations
- Quarterly Probe monitoring
- MCHD Quarterly Inspection
- Landfill mowing: Area F (N) after seeding
- Annual owl nest box cleaning



Ahtna



**Thermal Treatment Unit
Operation Summary
2006 - 2021**

TREATMENT SYSTEM OPERATION SUMMARY	
Treatment System Start Date:	6/4/2001
TTU Start Date:	4/4/2006
Last Reading Date/Time:	6/30/2021 14:44
Historical through 2020 (TTU only):	
Total TTU Hours:	129,192
Total TTU Hours Operated:	36,410
% TTU Operation:	28.2%
Total Pounds of Methane Removed:	3,736,267
Current Year 2021:	
Total Hours:	4,464
Total Hours Operated:	635
% TTU Operation:	14%
Total Pounds of Methane Removed:	54,372
Cumulative (since TTU startup in 2006):	
% TTU Operation:	27.7%
Total Pounds of Methane Removed:	3,790,639

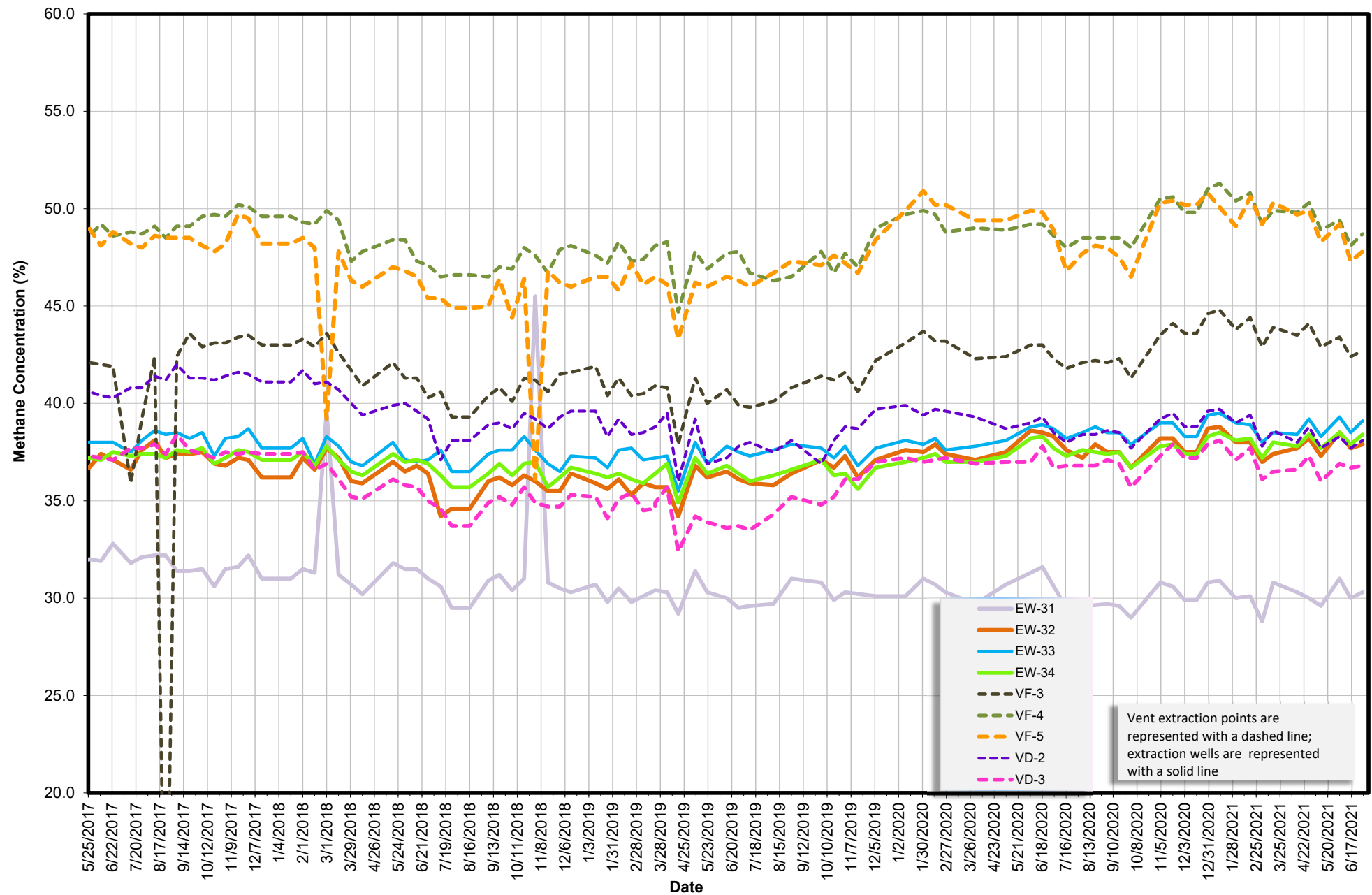
**Thermal Treatment Unit
Operation Summary
2006 - 2021**

			Methane			OU2 Groundwater COCs	
Year	Operating Hours	Change from Previous Year	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	634		54,372		2,035		

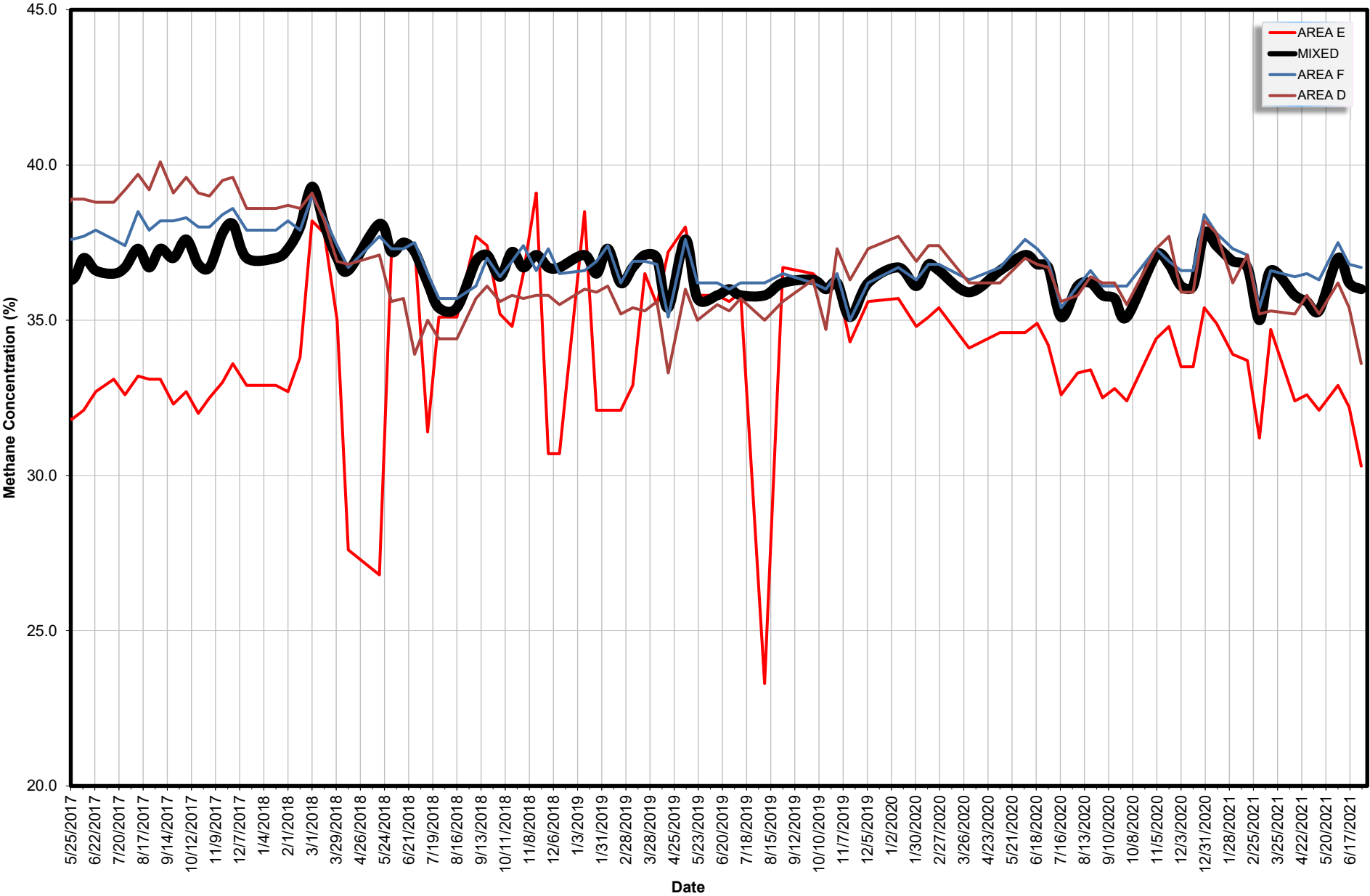
**Thermal Treatment Unit
Operation Summary
2006 - 2021**

EXTRACTION SYSTEM (2021)						
Location	Last Instantaneous Methane Reading (%)	Last Instantaneous Flow Rate Reading (scfm)	Current Methane Removal Rate (lbs/day)	2021 % Operation	2021 Methane Removed (Lbs)	% Contribution of Each Extraction Source
Area E						
EP-36	30.3	25.0	446.8	6%	39413.1	24%
Area F						
EW-31	30.3	1.0	17.9	5%	3236.0	2%
EW-32	37.9	20.5	458.3	6%	30,634	19%
EW-33	39.1	18.6	429.0	6%	31,590	19%
EW-34	38.4	22.9	518.7	6%	34,077	21%
VF-3	42.7	1.6	40.3	6%	9500.3	6%
VF-4	48.7	3.0	86.2	6%	4364.7	3%
VF-5	47.8	2.0	56.4	6%	6628.0	4%
Area D						
VD-2	38.1	1.0	22.5	6%	3859.5	2%
VD-3	36.8	1.0	21.7	6%	1895.0	1%
MIXED						
MIXED	36.0	96.0	2038.5	6%	162803.0	100%

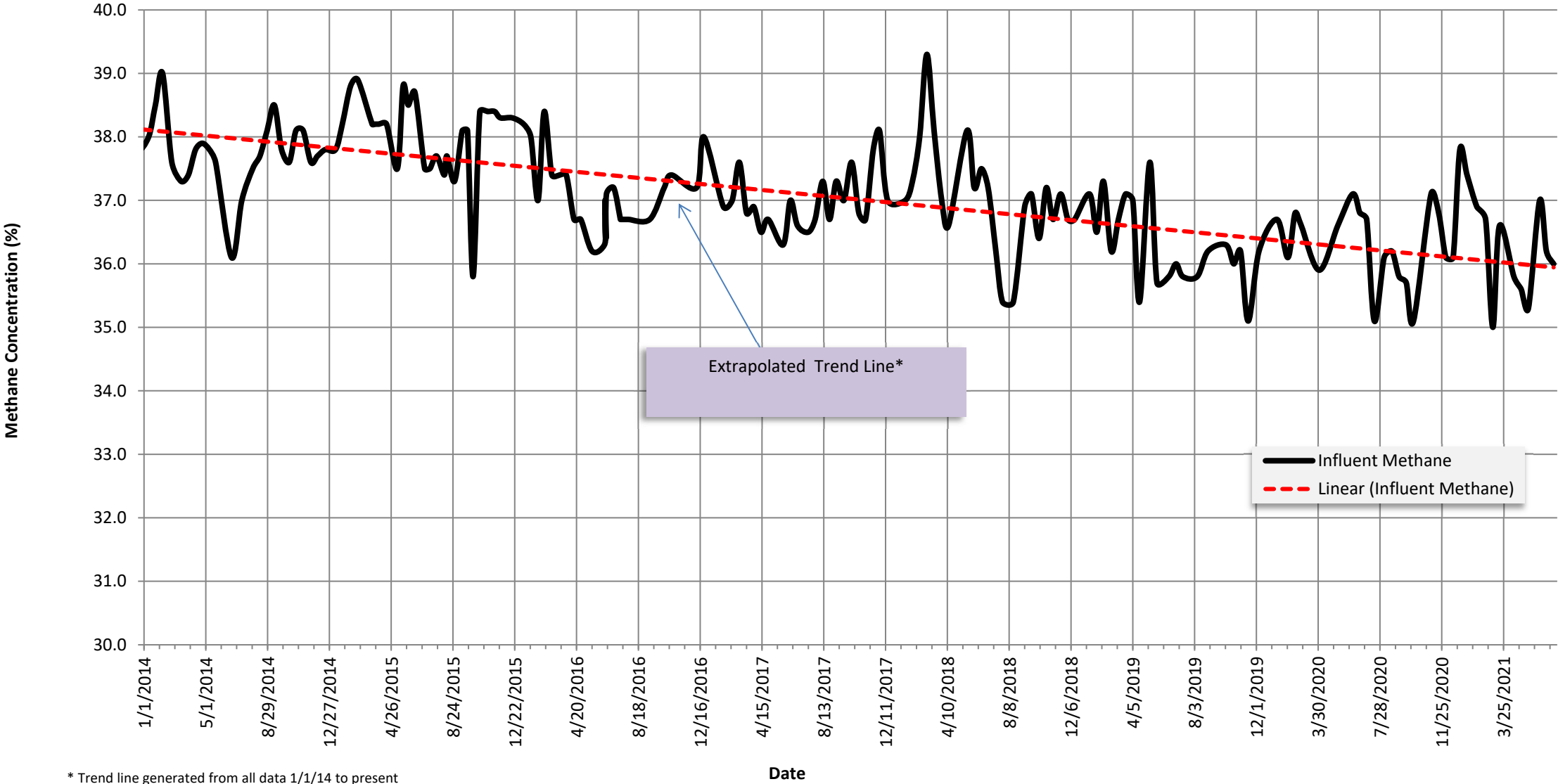
Methane Concentration vs. Time
OU2 Landfill Extraction Sources
1/1/2011 to present



Methane Concentration vs. Time
OU2 Landfill Extraction Sources
1/1/2011 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