

HTW BCT, October 9, 2019

September 2019 Key Events for OU2 Landfills

- TTU Operations
- O₂ sensor installed
- Monterey County Health Department Inspection

October 2019 Key Events for OU2 Landfills

- TTU Operations
- Clean owl boxes
- Install filters on pneumatic valves

OU2 Landfills and OU2 Groundwater Monitoring and Treatment System annual reports will be combined starting 3Q 2019 (Oct 1 – Sep 30).

The logo for Ahtna, featuring the word "Ahtna" in a blue, cursive script font.

**Thermal Treatment Unit
Operation Summary
2006 - 2019**

| TREATMENT SYSTEM OPERATION SUMMARY | |
|--|------------------------|
| Treatment System Start Date: | 6/4/2001 |
| TTU Start Date: | 4/4/2006 |
| Last Reading Date/Time: | 10/3/2019 14:40 |
| Historical through 2018 (TTU only): | |
| Total TTU Hours: | 111,672 |
| Total TTU Hours Operated: | 33,771 |
| % TTU Operation: | 30.2% |
| Total Pounds of Methane Removed: | 3,509,729 |
| Current Year 2019: | |
| Total Hours: | 6,600 |
| Total Hours Operated: | 1,081 |
| % TTU Operation: | 16% |
| Total Pounds of Methane Removed: | 92,866 |
| Cumulative (since TTU startup in 2006): | |
| % TTU Operation: | 29.5% |
| Total Pounds of Methane Removed: | 3,602,595 |

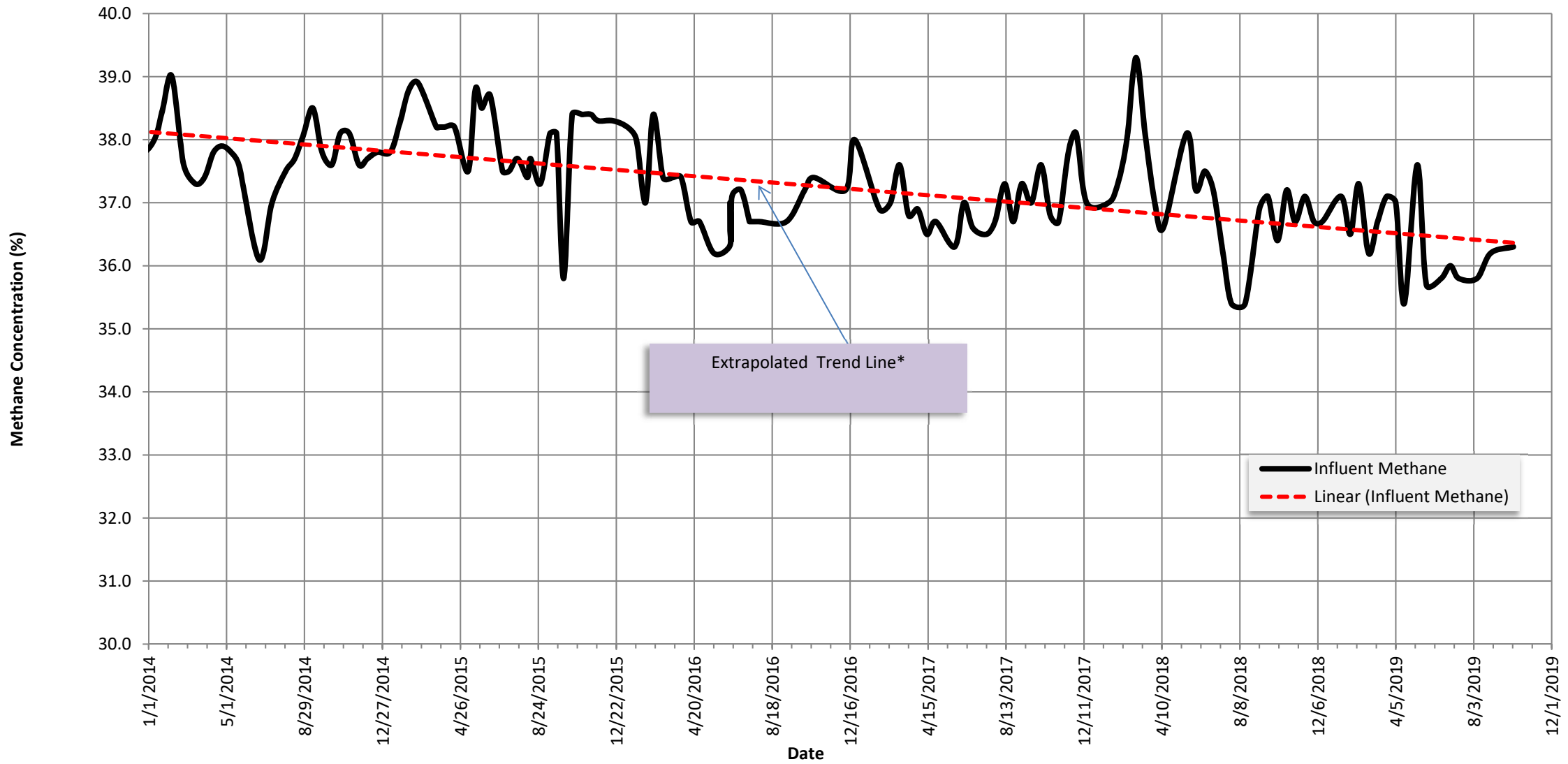
**Thermal Treatment Unit
Operation Summary
2006 - 2019**

| 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 | -19% | 145,174 | -19% | 2,784 | 0.6 | -9% |
| 2019 | 876 | | 92,866 | | 2,355 | | |

**Thermal Treatment Unit
Operation Summary
2006 - 2019**

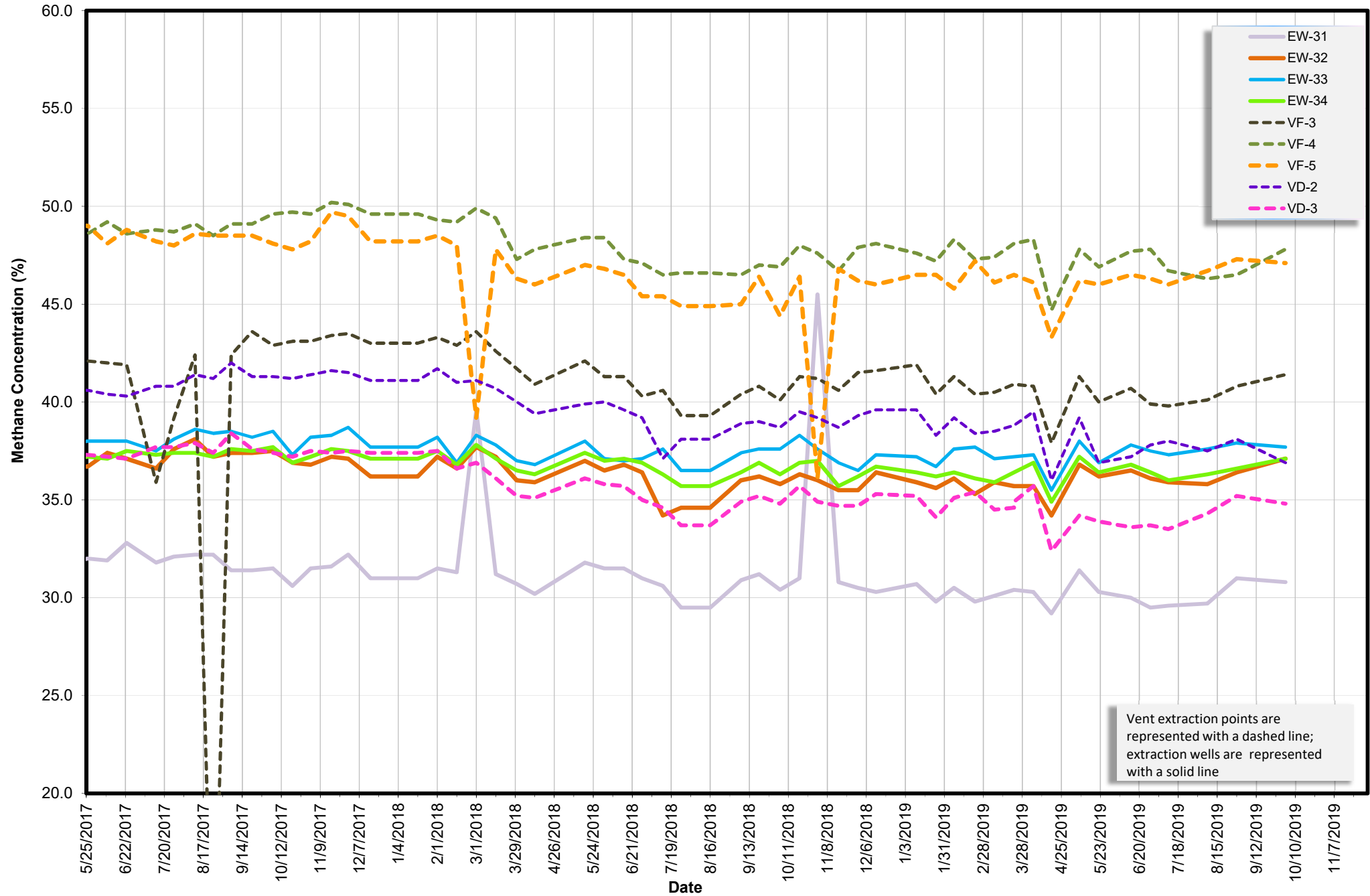
| EXTRACTION SYSTEM (2019) | | | | | | |
|---------------------------------|---|--|---|-------------------------|-----------------------------------|---|
| Location | Last Instantaneous Methane Reading (%) | Last Instantaneous Flow Rate Reading (scfm) | Current Methane Removal Rate (lbs/day) | 2018 % Operation | 2018 Methane Removed (Lbs) | % Contribution of Each Extraction Source |
| Area E | | | | | | |
| EP-36 | 36.5 | 25.0 | 538.2 | 0.2 | 58195.2 | 21% |
| Area F | | | | | | |
| EW-31 | 30.8 | 1.0 | 18.2 | 0.2 | 4601.4 | 2% |
| EW-32 | 37.1 | 20.0 | 437.7 | 18% | 53,257 | 19% |
| EW-33 | 37.7 | 21.0 | 467.0 | 18% | 41,971 | 15% |
| EW-34 | 37.1 | 16.0 | 350.1 | 18% | 71,441 | 25% |
| VF-3 | 41.4 | 5.0 | 122.1 | 0.2 | 17706.9 | 6% |
| VF-4 | 47.8 | 5.0 | 141.0 | 0.2 | 14925.6 | 5% |
| VF-5 | 47.1 | 1.0 | 27.8 | 18% | 8205.3 | 3% |
| Area D | | | | | | |
| VD-2 | 36.9 | 1.0 | 21.8 | 0.2 | 5104.6 | 2% |
| VD-3 | 34.8 | 1.0 | 20.5 | 0.2 | 4930.8 | 2% |
| MIXED | | | | | | |
| MIXED | 36.3 | 96.0 | 2055.5 | 0.2 | 238040.3 | 100% |

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

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

