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**Bethel/Danebo**

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**From** STRUNK Donald L <Donald.Strunk@co.lane.or.us>

**Date** Thu 2/8/2018 4:37 PM

**To** READ Norm (norm.read@state.or.us) <norm.read@state.or.us>

**Cc** Eric J. Tuppan <ejtuppan@easystreet.net>

 2 attachments (55 KB)

BDJan2018.docx; BDJan2018.csv;

Hi Norm,

Attached is the monthly report for Bethel/Danebo. Nothing out of the ordinary except for what seems like a light rainfall year the site probes have a lot of water. The gas meter is on its way to the factory for annual maintenance and calibration. Just over a \$900.00 dollar bill.

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# Bethel-Danebo Closed Landfill Progress Report

## For January 2018

### Actions during this month:

- Regular sampling.
- Blower has run continually without issue since June the 25<sup>th</sup> 2015.
- The blower vacuum 9.8.
- Rain fall has been moderate but the soil remains saturated.

### Actions scheduled to be taken within the next two months:

- Continue sampling.
- Finalize site review and monitoring with D.E.Q.
- Work on establishing long term site protection.
- GEM 5000 is on its way to factory for calibration.

### Problems experienced during the month:

- All of the probes that are surface mount contained enough water that I could not get a full 120 second pump run before the pump would either pull in water or automatically shut down because of excessive load. I would suspect that the rest of the probes contain water but the extra height allows enough volume so that the pump doesn't over pressurize or the water is able to escape at near the top.

## Readings for January 2018

Device ID	Date/Time	CH4	CO2	O2	Balance	%LEL
GEM™5000; G5 V1_13_7; LSGAM:6_0_20160627; {42955391642}		%	%	%	%	%
Probe001	1/29/2018 16:24	0	0.5	20.1	79.4	0
Probe002	1/29/2018 16:29	5.2	18.2	1.7	74.9	>>>>
Probe003	1/29/2018 16:32	0	0.5	20.4	79.1	0
Probe003	1/29/2018 16:34	0	0.1	20.6	79.3	0
Probe004	1/29/2018 16:38	36	19	1.3	43.7	>>>>
Probe005	1/29/2018 16:42	0	2.3	17.2	80.5	0
Probe006	1/29/2018 16:46	8.4	3.7	2.6	85.3	>>>>
Probe009	1/29/2018 16:50	0	0.8	19.7	79.5	0

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Probe001	1/29/2018 16:24	0	0.5	20.1	79.4	0
Probe002	1/29/2018 16:29	5.2	18.2	1.7	74.9	>>>>
Probe003	1/29/2018 16:32	0	0.5	20.4	79.1	0
Probe003	1/29/2018 16:34	0	0.1	20.6	79.3	0
Probe004	1/29/2018 16:38	36	19	1.3	43.7	>>>>
Probe005	1/29/2018 16:42	0	2.3	17.2	80.5	0
Probe006	1/29/2018 16:46	8.4	3.7	2.6	85.3	>>>>
Probe009	1/29/2018 16:50	0	0.8	19.7	79.5	0
Probe010	1/29/2018 16:55	0	0.4	20.7	78.9	0
BLOWEXAU	1/29/2018 17:00	0.2	0.4	20.5	78.9	4
LP00EV47	1/29/2018 17:05	0	0.1	20.9	79	0
LP00SD10	1/29/2018 17:11	0.2	0.1	20.9	78.8	4
LP00SD12	1/29/2018 17:25	0	0.1	21	78.9	0
LP00EV45	1/29/2018 17:28	0	0.1	20.9	79	0
LP00EV43	1/29/2018 17:33	0	0.1	20.9	79	0
LP00EV41	1/29/2018 17:38	0	0.1	21	78.9	0
LP00SD03	1/29/2018 17:44	0	0.1	21.1	78.8	0
LP00EV37	1/29/2018 17:49	0	0.1	21.1	78.8	0

LP00EV39	1/29/2018 17:58	0	0.1	21	78.9	0
LP25GP26	2/1/2018 16:07	1.2	13.4	8.1	77.3	24
LP26GP25	2/1/2018 16:14	1.9	11.4	9.2	77.5	38
LP07VPL7	2/1/2018 16:25	0	0.3	20.3	79.4	0
Probe007	2/1/2018 16:28	0	0.1	20.6	79.3	0
Probe008	2/1/2018 16:32	0	1.3	19	79.7	0
LP08VPL8	2/1/2018 16:35	0	1.5	19	79.5	0





Adj. Power	Baro. Press.	Sys. Press.	Gas Pod Type	Gas Pod Value	CO	H2S	SO2	NO2
e3BTU/h	inches Hg	inches H2O			ppm	ppm		
N/A	29.59	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.59	N/A	N/A	N/A	0	6	N/A	N/A
N/A	29.59	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.59	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.59	N/A	N/A	N/A	0	26	N/A	N/A
N/A	29.59	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.59	N/A	N/A	N/A	0	52	N/A	N/A
N/A	29.6	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.6	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.6	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.61	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.61	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.61	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.61	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.61	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.61	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.61	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.61	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.62	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.62	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.63	N/A	N/A	N/A	0	0	N/A	N/A

N/A	29.62	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.68	N/A	N/A	N/A	1	0	N/A	N/A
N/A	29.69	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.69	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.68	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.69	N/A	N/A	N/A	0	0	N/A	N/A
N/A	29.69	N/A	N/A	N/A	0	0	N/A	N/A

CL2	H2	HCN	Inst-Tech	Latitude	Longitude	Altitude	UTC	SatsUsed
	LMH					ft		
N/A	10	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	14	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	15	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	13	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	14	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	16	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	14	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	15	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	15	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	17	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	16	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	15	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	19	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	19	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	14	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	18	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	18	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	16	N/A	N/A_	N/A	N/A	N/A	N/A	N/A

N/A	14	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	0	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	7	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	4	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	5	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	11	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
N/A	7	N/A	N/A_	N/A	N/A	N/A	N/A	N/A





Wind-Speed	Wind-Direction	Anemometer Vel.	PeakCH4	PeakCO2	Anemometer Flow	MinO2	Temp. GA Mode	Rel. Press.
		m/s	%	%	SCFM	%	DegF	inches H2O
5		N/A	N/A	N/A	N/A	N/A	N/A	-0.01
5		N/A	N/A	N/A	N/A	N/A	N/A	-0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	-0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	0.01
5		N/A	N/A	N/A	N/A	N/A	N/A	0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	-0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	0
5		N/A	N/A	N/A	N/A	N/A	N/A	0
5		N/A	N/A	N/A	N/A	N/A	N/A	0.01
5		N/A	N/A	N/A	N/A	N/A	N/A	0.01
5		N/A	N/A	N/A	N/A	N/A	N/A	0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	0
5		N/A	N/A	N/A	N/A	N/A	N/A	-0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	0.02
5		N/A	N/A	N/A	N/A	N/A	N/A	0
5		N/A	N/A	N/A	N/A	N/A	N/A	0.01

5		N/A	N/A	N/A	N/A	N/A	N/A	0
5		N/A	N/A	N/A	N/A	N/A	N/A	0.48
5		N/A	N/A	N/A	N/A	N/A	N/A	-0.01
5		N/A	N/A	N/A	N/A	N/A	N/A	0.01
5		N/A	N/A	N/A	N/A	N/A	N/A	0.01
5		N/A	N/A	N/A	N/A	N/A	N/A	0.01
5		N/A	N/A	N/A	N/A	N/A	N/A	0.01



