



City of Yachats
WASTEWATER DEPARTMENT
500 W. 7th St.
P.O. Box 345
Yachats, OR 97498

February 14, 2018

Paul Kennedy
DEQ Western Region
165 E 7th Ave., Suite 100
Eugene, OR 97401

Dear Mr. Kennedy:

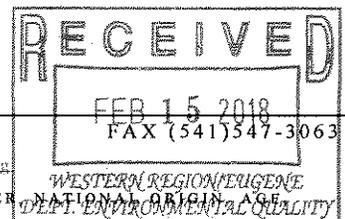
In accordance with NPDES Permit No. 103001, Schedule B, 3a Report submittals, I have enclosed the City of Yachats 2017 Biosolids Annual Report.

If you have any questions or require further information, please call me at (541) 547-3385.

Sincerely,

David A. Buckwald
Principle Operator
Wastewater Department
City of Yachats
Dave@YachatsMail.org
(541)547-3385

Enclosures
CC: DEQ Salem, OR Office
WWTP File



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THE CITY OF YACHATS DOES NOT DISCRIMINATE ON THE BASIS OF RACE, COLOR, RELIGION, CREED, GENDER, DISABILITY, MARITAL OR VETERAN STATUS, SEXUAL ORIENTATION, OR ANY OTHER LEGALLY PROTECTED STATUS.



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City of Yachats 2017 Annual Biosolids Report

Biosolids Land Application

The City of Yachats did not land apply any biosolids in 2017.

FKC Screw Press

During operation, biosolids are pumped to the screw press from the Sludge Transfer Station where it is dosed with an emulsified polymer. The solids are then gravity fed into the screw press, dewatered, then dropped into a screw conveyor. Filtrate is piped to the Drain Pump Station and sent back to the headworks. Occasionally, the filtrate is pumped into a digester to reuse any excess polymer it may contain. Dewatered solids are conveyed out of the Sludge Handling building to a round dumpster outside the building where it will be picked up and hauled off to a local landfill or loaded into a 10-yard dump truck and hauled to Heard Farms in Sutherlin, Oregon.

Landfill:

The average inlet consistency for 2017 averaged 1.11 % total solids with an outlet consistency of 10.90 – 24.20 % total solids. The City of Yachats processed 151,386 gallons of biosolids that was sent to the landfill by the local garbage service.

Heard Farms:

The City of Yachats processed 482,868 gallons of biosolids that was sent to Heard Farm, Sutherlin, Oregon. The truck loads had a total solids content that ranged from 12.9 to 16.6 % total solids.

Biosolids Received

In 2016, the City of Yachats received 19,457 gallons of biosolids from Angell Job Corps. WWTP. The average Total Solids was 0.84%.

2017 Loading Forecast

The City of Yachats will operate its screw press and send its solids to the landfill and to Heard Farm for beneficial use.

The City of Yachats is developing a new method to land apply its dewatered solids and continuing to search for more land application sites for future use.

Attachments:

- **2017 Yachats Biosolids Screw Press Management Report**

Yachats 2017 Biosolids Management Report

Yachats WWTP 2017 Screw Press

Sent to the Landfill 2017

Date	Gallons Ran	Avg. Inlet % TS Liquid	Avg. Outlet % TS Dewatered	lbs.	Dry Ton	Poly Used
1/11/2017	6491	0.86	13.40	464	0.23	16.8
1/18/2017	6681	0.97	12.00	539	0.27	11.2
1/26/2017	2951	0.98	14.40	241	0.12	6.6
1/30/2017	6259	1.01	16.40	527	0.26	16.4
	Monthly Total	Avg.	Avg.	Monthly Total	Monthly Total	Monthly Total
	22,382	0.95	14.05	1,772		0.89
2/10/2017	6470	0.97	16.90	526	0.26	18.4
2/14/2017	6049	0.95	14.50	479	0.24	14.4
2/22/2017	6323	1.19	13.60	628	0.31	18.0
2/27/2017	4889	1.10	14.10	449	0.22	12.4
				0	0.00	
				0	0.00	
	23,731	1.05	14.78	2,081		1.04
3/3/2017	2887	1.07	15.20	258	0.13	8.8
3/6/2017	1623	0.93	15.60	126	0.06	5.2
3/14/2017	3203	0.93	15.60	249	0.12	6.8
3/15/2017	2951	0.93	15.60	230	0.11	7.2
3/29/2017	1981	1.80	16.00	297	0.15	5.8
3/30/2017	1349	1.80	16.00	203	0.10	3.8
	13,994	1.25	15.67	1,363		0.68
4/17/2017	3899	1.15	16.50	374	0.19	7.2
4/20/2017	3498	1.27	14.10	371	0.19	13.6
4/26/2017	7461	0.84	13.30	523	0.26	11.0
	14,858	1.09	14.63	1,267		0.63
5/9/2017	3751	1.17	16.30	366	0.18	10.8
5/7/2015	3246	1.08	12.60	292	0.15	11.0
5/15/2017	6301	1.09	16.30	573	0.29	18.0
	13,298	1.11	15.07	1,231		0.62
6/14/2017	4552	1.18	24.20	448	0.22	9.6
	4,552	1.18	24.20	448		0.22
9/26/2017	6133	1.23	12.90	629	0.31	16.2
	6,133	1.23	12.90	629		0.31
10/4/2017	4573	1.14	13.90	435	0.22	15.2
10/9/2017	3435	1.01	13.30	289	0.14	7.4
10/13/2017	1623	0.93	10.90	126	0.06	3.4
10/14/2017	4236	0.93	15.90	329	0.16	11.6
10/25/2017	4765	1.38	13.90	548	0.27	13.4
10/30/2017	4890	1.30	13.10	530	0.27	15.6
	23,522	1.12	13.50	2,257		1.13
11/14/2017	2213	1.13	12.60	209	0.10	5.6
11/16/2017	3309	1.13	12.30	312	0.16	8.4
11/27/2017	6238	1.09	13.10	567	0.28	16.6
	11,760	1.12	12.67	1,087		0.54
12/6/2017	6112	1.04	13.90	530	0.27	13.6
12/11/2017	5100	1.07	13.30	455	0.23	16.4
12/20/2017	5944	1.00	14.00	496	0.25	13.4
	17,156	1.04	13.73	1,481		0.74

Minimum	0.84	10.90
Maximum	1.80	24.20

	Average	Average	Dry Tons	Poly lbs
TOTAL	151,386 gal.	1.11 %T.S.	14.58 %TS	13,617 lbs.
			6.81	338.80

Biosolids Land Applied 2017

Load	Date	Gallons	Digester	% TS	lbs.	Truck Driver	Dry ton	Lime lbs./1000 gal	pH	Destination
1										
2										
3										
4										
5										
6										
7										

On Biosolids were land applied in 2017

TOTAL	0 gallons	- lbs.	DT
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Solids sent to Heard Farms 2017

Load	Date	Gallons	Avg. Inlet % TS Liquid	Truck % TS Dewatered	Truck Driver	Net truck lbs.	Dry Ton	Truck
1	3/2/2017	37,834	1.04	13.1	db	19,560	1.64	10yd
2	4/21/2017	41,878	0.88	14.5	db	16,760	1.54	10yd
3	5/3/2017	38,961	1.13	15.7	kk	16,660	1.84	10yd
4	5/23/2017	41,625	1.12	15.5	db	17,460	1.94	10yd
5	6/29/2017	34,854	1.09	16.6	kk	17,360	1.58	10yd
6	7/6/2017	37,650	1.05	15.5	kk	17,630	1.65	10yd
7	7/13/2017	47,730	1.10	15.4	kk	17,110	2.19	10yd
8	7/20/2017	34,188	1.25	13.7	kk	18,660	1.78	10yd
9	7/27/2017	39,313	0.95	12.9	kk	19,860	1.56	10yd
10	8/24/2017	37,074	0.94	14.3	db	17,710	1.45	10yd
11	8/31/2017	44,144	0.89	13.6	db	18,460	1.64	10yd
12	9/7/2017	47,617	0.98	14.5	db	18,560	1.95	10yd
TOTAL		482,868 gal.	1.04 %TS	14.6 %TS		215,790 lbs.	20.76	Dry Tons

Solids Received 2017

From Angell Job Corps WWTP

Load #	Date	Gallons	Avg. Inlet % TS Liquid	lbs.	Dry Ton
1	1/17/2017	2,192	0.99	181	0.09
2	2/8/2017	2,212	1.02	188	0.09
3	3/30/2017	2,234	1.17	218	0.11
4	5/9/2017	2,200	0.55	101	0.05
5	5/12/2017	2,200	0.93	171	0.09
6	6/27/2017	2,233	0.55	102	0.05
7	8/11/2017	2,245	1.06	198	0.10
8	9/20/2017	2,165	0.66	119	0.06
9	9/20/2017	1,776	0.66	98	0.05
TOTAL		19,457 gal.	0.84 %TS	1,377 lbs.	0.69 Dry Tons

Yachats 2017 Biosolids Summary

	Gallons	Avg. Inlet % TS Liquid	Avg. Outlet % TS Dewatered	lbs.	Dry Ton
Solids Land Applied	---	---	---	---	---
Sent to the Landfill	151,386	1.11	14.58	13,617	6.81
Solids sent to Heard Farms	482,868	1.04	14.61	215,790	20.76
Total	634,254 Gallons			229,407 lbs.	27.56 Dry tons
Solids Received	19,457 Gallons	0.84 %T.S.		1,377 lbs.	0.69 Dry tons

