



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach, CA

Monitoring Period: March 1- 31, 2019

This notice and necessary information demonstrates compliance with requirements of the Code of Federal Regulations Title 40 Part 503 and the Arizona Administrative Code Title 18, Chapter 9, Article 10 for land application pollutant concentrations, Class B pathogen reduction via anaerobic digestion (40CFR 503.32(b)(3)(A)(3), AAC R18-9-1006(E)(5)), and vector attraction reduction via volatile solids reduction (40CFR 503.33(b)(1), AAC R18-9-1010(A)(1)).

Sampling date(s): 03/19/19, 03/26/19, 03/28-29/19

	Mercury (mg/kg dry)	Arsenic (mg/kg dry)	Cadmium (mg/kg dry)	Chromium (mg/kg dry)	Copper (mg/kg dry)	Lead (mg/kg dry)	Molybdenum (mg/kg dry)	Nickel (mg/kg dry)	Selenium (mg/kg dry)	Zinc (mg/kg dry)	Ammonia Nitrogen (mg/kg dry)	Organic Nitrogen (mg/kg dry)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
Plant 1 Max/Min¹	1.4	13	1.5 DNQ	49	440	12	15	34	<2.5	640	5,200	59,000	64,000	7.8	22	55 ²
Plant 1 Avg	1.1	11 DNQ	1.2 DNQ	41	390	9.9	13	31	<2.5	570	5,100	57,000	62,000		23	
Plant 2 Max/Min¹	1.0	20	4.1	59	600	16	24	42	<2.9	910	6,100	55,000	61,000	8.0	20 ³	66
Plant 2 Avg	0.91	15 DNQ	3.0 DNQ	46	480	12	19	34	<2.9	730	6,000	51,000	57,000		20 ³	
Table 1 (Max/Min)¹	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)⁴	20	20	Out of Service	19	19	20	20	19	20	19	20
Minimum Temperature (Min 95 °F)	97	99	Out of Service	98	98	99	98	98	98	98	97

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
Minimum Mean Cell Residence Time (Min 15 days)⁴	20	21	20	27 ⁵	20	20	21	20	Out of Service	20	20	Out of Service	20	Out of Service	20	20	20	21
Minimum Temperature (Min 95 °F)	98	100	100	102	100	100	98	99	Out of Service	100	99	Out of Service	99	Out of Service	98	101	100	98



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DNQ (Detected, Not Quantified) represents estimated values above the method detection limit (MDL), but below the reporting limit (RL).

¹ Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

² OCSD's new Plant No. 1 co-thickening centrifuges began processing sludge in late March 2019. The new processed stream is called centrifuge thickened sludge (CTS) and combines and thickens solids flows from the primaries (sludge and scum) and secondaries (trickling filter sludge, activated sludge plant surface waste, and waste activated sludge). The CTS was sampled and analyzed by an Arizona-certified laboratory resulting in a volatile solids value of 4.7%. The VSR calculation could not be completed for the March 28th sampling event because the corresponding primary and secondary volatile solids samples were not taken on that same day. Based on the most conservative compliance and process data, OCSD did not drop below the 38% minimum compliance level for the reduction in volatile solids content.

³ Plant No. 2 began commissioning dewatering centrifuges in late March, which will result in higher percent total solids.

⁴ MCRT based on a 15-Day Rolling Average.

⁵ Digester E was brought into service on March 26, 2019.

Certifications:

NPDES permit: *I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

503 Class B: *I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.*

Arizona Class B: *I certify, under penalty of law, that the pollutant analyses and the description of pathogen treatment and vector attraction reduction activities have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate the information used to determine whether the applicable biosolids requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.*

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2019-03_Biosolids_Compliance_Report

Final Audit Report

2019-08-20


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